

**H.P. WHITE LABORATORY,
INC.
TEST RESULTS**



We are Teludyne Tech Industries, the stewards of the StraightJacket® Barrel System. The StraightJacket® Barrel System is the next step in the evolution of the rifle barrel. By our own admission the performance enhancements made by the StraightJacket® are unbelievable; however, it is through years of testing and development that we came to this point. To prove and confirm that the remarkable claims are indeed true, we have enlisted the services of the professionals at H.P. White Laboratories. H.P. White Laboratory, Inc. is the premier small arms and ammunition research, development and testing laboratory in the United States. Their clients include the many branches of the U.S. Military, DoD and its many subsidiaries, Dept. of Homeland Security, U.S. Secret Service, major firearms manufacturers and governments of more than 20 global countries.

This test began by purchasing a brand new Remington model 700 chambered in .300 Win Mag direct from Remington Arms Co. The rifle was unboxed and tested by James W. Armstrong of the Greenville County Sheriff's Department Crime Lab to establish the ballistic fingerprint of the rifle. This rifle was then boxed and shipped to H.P. White Labs in Street, MD. The Three test batteries (1. Sustained Fire, 2. Mil-Spec Extreme Temperature, 3. Directional Heat Influence) were completed in full. The test rifle was returned to Teludyne Tech where a StraightJacket® Barrel System was installed, and James W. Armstrong at the crime lab tested and verified that the rifle's original barrel was still intact. The rifle and documents from the Greenville County Crime Lab were given to H.P. White Labs. The three test batteries were again completed in full, using ammunition from the same case and lot number, the same optic, the same fixture and the same examiners as used before. **The results of the tests showed that the claims made by Teludyne Tech about the advantages of the StraightJacket® Barrel System are true.**

We again enlisted H.P. White Labs to prove the heat dissipation capabilities of the StraightJacket® Barrel System. A brand new Teludyne SJBS M4 upper was built using a Mil-Spec barrel and upper and taken to the H.P. White facility in Street, MD. The SJBS upper was installed onto a full auto lower and secured in a test fixture. Thirty round magazines were pre-loaded with M855 ammunition. All rounds were fired full auto until the magazine ran empty, and only the time needed to load a new magazine and resume testing was taken between rounds. Thirteen magazines (390 rounds) were fired in 3 minutes and 40 seconds. After testing was complete, temperature testing was done on the chamber and muzzle ends. With ambient temperature being 65 degrees F, the SJBS M4 was a mere 207 degrees F at chamber and muzzle. Compare this to existing Military data where a conventional M4 chamber would be over 1500 degrees F after the same test. **Again we say, and H.P White Labs confirms The StraightJacket® Barrel System lives up to all claims.**



Department of Public Safety

Captain Jackie F. Kellett
Manager, Forensic Division
jkellert@greenvillecounty.org
(864) 467-5398
www.greenvillecounty.org

November, 8, 2011

Noel Lasure
Vice President of Marketing & Product Development
Teludyne Tech Industries
1018 S. Batesville Road
Greer, SC 29650

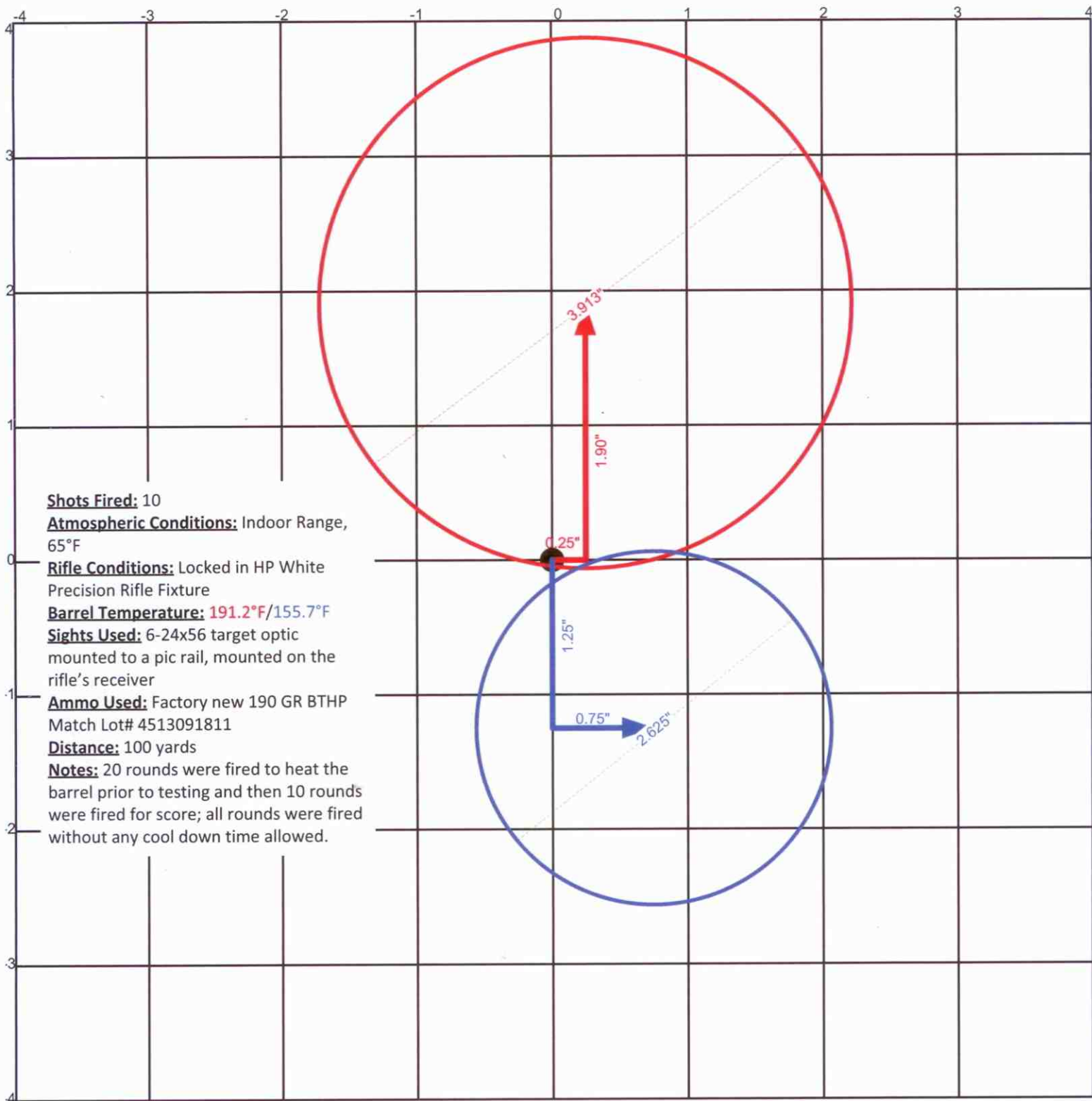
Dear Mr. Lasure:

This examiner was asked to test fire a Remington model 700 rifle with serial number G7058478 in caliber 300 Winchester Magnum during the week of September 26, 2011. These test shots were performed prior to Teludyne Tech Industries doing any work on the rifle. The test shots were obtained by use of a Water Recovery Tank. The fired bullet specimens were placed in a bag and stored in a secure location by this examiner in order to compare them at a later date to test shots from the post-jacketed barrel. The post-jacketed rifle was test fired on November 1, 2011 and test fired bullet specimens were obtained. The pre-jacketed fired bullet specimens were then microscopically compared against the post-jacketed fired bullet specimens. The result of these comparisons is that the pre-jacketed fired bullet specimens were fired from the same barrel as the post-jacketed fired bullet specimens. It is the opinion of this examiner that the barrel of the Remington model 700 rifle with serial number G7058478 in caliber 300 Winchester Magnum has not been altered or changed by the installation of the StraightJacket[®] Barrel System.

Sincerely,

James W. Armstrong
Firearms Examiner
Greenville Crime Lab
4 McGee Street
Greenville, SC 29601
(864) 467-5178

Sustained Fire Test



Shots Fired: 10

Atmospheric Conditions: Indoor Range, 65°F

Rifle Conditions: Locked in HP White Precision Rifle Fixture

Barrel Temperature: 191.2°F/155.7°F

Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver

Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811

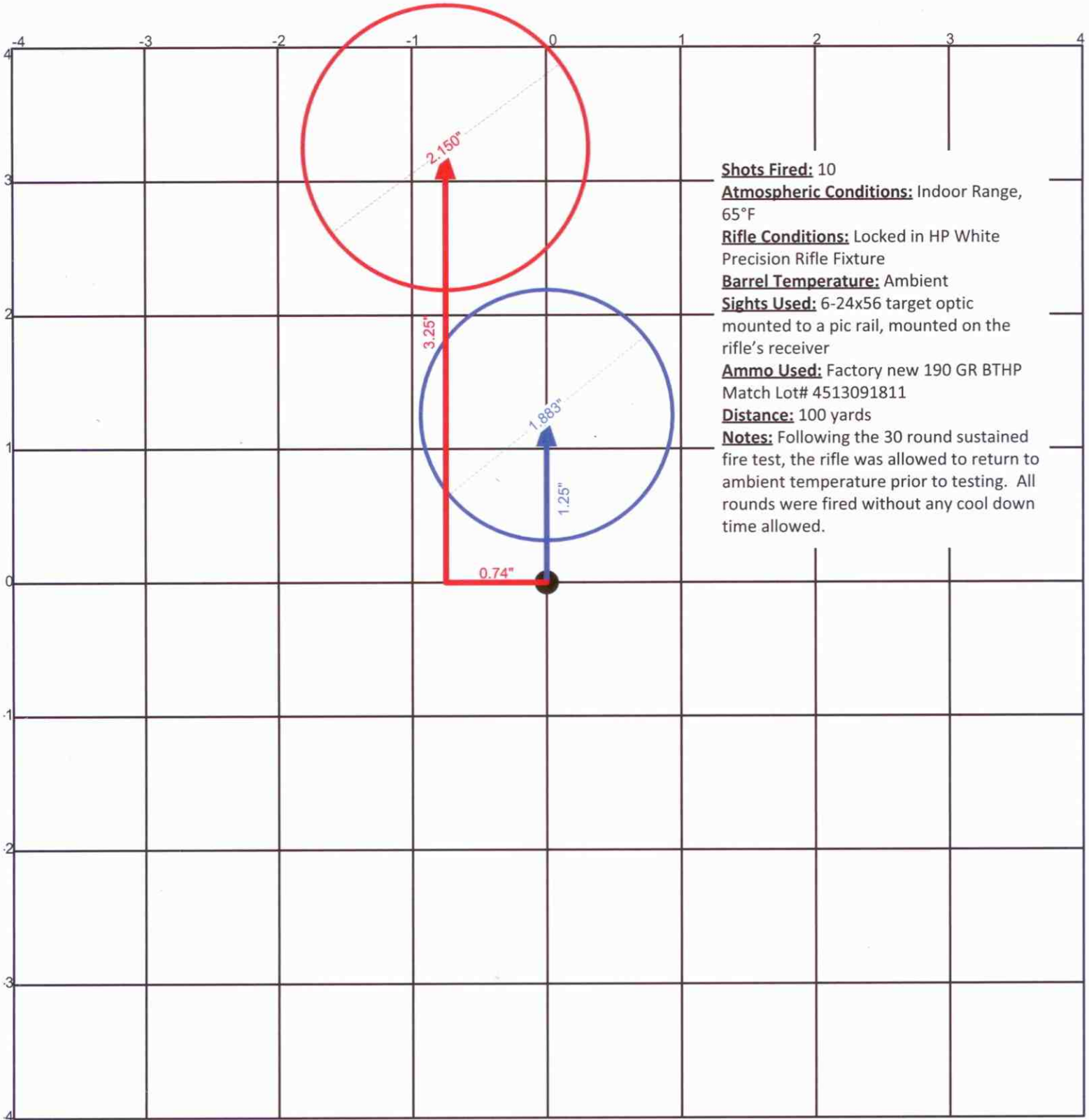
Distance: 100 yards

Notes: 20 rounds were fired to heat the barrel prior to testing and then 10 rounds were fired for score; all rounds were fired without any cool down time allowed.

Legend

- Point of Aim (POA)
- Test Rifle TTI-BR-01X
 - Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System
 - Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

Sustained Fire Test



Shots Fired: 10

Atmospheric Conditions: Indoor Range, 65°F

Rifle Conditions: Locked in HP White Precision Rifle Fixture

Barrel Temperature: Ambient

Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver

Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811

Distance: 100 yards

Notes: Following the 30 round sustained fire test, the rifle was allowed to return to ambient temperature prior to testing. All rounds were fired without any cool down time allowed.

Legend

- Point of Aim (POA)
- Test Rifle TTI-BR-01X
 - Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System
 - Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

H.P. WHITE LABORATORY, INC.

3114 Scarboro Road
Street, Maryland 21154-1822
Telephone: (410) 838-6550
Facsimile: (410) 838-2802
Email: info@hpwhite.com
www.hpwhite.com



17 November 2011
(HPWLI 11988-01A)
(Revised 30 November 2011)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. To achieve warm conditions; 20 rounds were fired within a three minute timeframe. Warm testing was performed immediately following this procedure. Table 1 presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech. Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures

H.P. WHITE LABORATORY, INC.

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Street, Maryland 21154-1822
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TABLE I. SUMMARY OF RESULTS

Condition	Bullet	Shots	Velocity (fps)		Barrel Temperature (d)	Dispersion At 100 Yards	Aim vs. Impact
			Mean	Extreme Variation			
Ambient	190gr. BTHP	10	2998	61	N/A	2.150"	3.25" High 0.74" Left
Warm(b)	190gr. BTHP	10	3013	57	Int: 191.2 F Ext: 176.0 F	3.913"	1.90" High 0.25" Right
Ambient (a)	190gr. BTHP	10	2960	55	N/A	1.883"	1.25" High
Warm (a)(c)	190gr. BTHP	10	2965	47	Int: 155.7 F Ext: 142.1 F	2.625"	1.25" Low 0.75" Right
(a) With Straight Jacket System (b) Group shift from ambient temperature to warm temperature: 1.90" low, 1.00" Right (c) Group shift from ambient temperature to warm temperature: 0.74" Left (d) Temperature taken 8" forward of chamber							



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No. : 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6710	2981	6710	2981	2981	2981	Y	
2	6613	3024	6613	3024	3024	3024	Y	
3	6601	3030	6601	3030	3030	3030	Y	
4	6698	2986	6698	2986	2986	2986	Y	
5	6736	2969	6736	2969	2969	2969	Y	
6	6644	3010	6644	3010	3010	3010	Y	
7	6675	2996	6675	2996	2996	2996	Y	
8	6715	2978	6715	2978	2978	2978	Y	
9	6671	2998	6671	2998	2998	2998	Y	
10	6654	3006	6654	3006	3006	3006	Y	
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RESULTS	Measured	SAAMI Reqmt.	REMARKS
No. Data Points :	10		POST 20 ROUNDS FIRED WITHIN 3 MINUTES BARREL RETURNED TO AMBIENT TEMPERATURE. 100 YARD DISPERSION (10 ROUND GROUP): 2.150" POINT OF AIM VS. POINT OF IMPACT: 3.25" HIGH, 0.74" LEFT
Maximum :	3030		
Minimum :	2969		
Extreme Variation :	61		
Average :	2998		
Standard Deviation :	18.93		
Avg. +3 Std. Dev. :	3055		
Standard Error :	5.99		
Avg. + 2SE :	3010		
Avg. + 5SE :	3028		



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6636	3014	6636	3014	3014	3014	Y	
2	6618	3022	6618	3022	3022	3022	Y	
3	6668	2999	6668	2999	2999	2999	Y	
4	6669	2999	6663	3002	3000	3000	Y	
5	6663	3002	6663	3002	3002	3002	Y	
6	6574	3042	6574	3042	3042	3042	Y	
7	6626	3018	6626	3018	3018	3018	Y	
8	6672	2998	6672	2998	2998	2998	Y	
9	6569	3045	6569	3045	3045	3045	Y	
10	6695	2987	6695	2987	2987	2987	Y	
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RESULTS	Measured	SAAMI Reqmt.	REMARKS
No. Data Points :	10		POST 20 ROUNDS FIRED WITHIN 3 MINUTES INTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 191.2 F EXTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 176.0 F 100 YARD DISPERSION (10 ROUND GROUP): 3.913" POINT OF AIM VS. POINT OF IMPACT: 1.35" HIGH, 0.25" RIGHT GROUP SHIFT FROM AMBIENT TO WARM: 1.90" LOW, 1.00" RIGHT
Maximum :	3045		
Minimum :	2987		
Extreme Variation :	57		
Average :	3013		
Standard Deviation :	18.28		
Avg. +3 Std. Dev.:	3068		
Standard Error :	5.78		
Avg. + 2SE :	3024		
Avg. + 5SE :	3042		



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : 300 WIN MAG
Bullet : BOAT-TAIL HP
Catalog No. :
Lot No. : 4513091811

Case : 300 WIN MAG
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 11/2/11
Via : HAND CARRIED
Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : BLACK

Temperature (F): 70
Barometer (in Hg): 29.56
Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6690	2990	6686	2991	2990	2990	Y	
2	6675	2996	6681	2994	2995	2995	Y	
3	6757	2960	6767	2956	2958	2958	Y	
4	6760	2959	6767	2956	2957	2957	Y	
5	6769	2955	6776	2952	2953	2953	Y	
6	6767	2956	6776	2952	2954	2954	Y	
7	6745	2965	6749	2963	2964	2964	Y	
8	6704	2983	6713	2979	2981	2981	Y	
9	6782	2949	6789	2946	2947	2947	Y	
10	6779	2950	6785	2948	2949	2949	Y	
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RESULTS	Measured	SAAMI Reqmt.	REMARKS
No. Data Points :	10		WITH STRAIGHT JACKET SYSTEM POST 20 ROUNDS FIRED WITHIN 3 MINUTES INTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 155.7 F EXTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 142.1 F 100 YARD DISPERSION (10 SHOT GROUP): 2.625" POINT OF AIM VS. POINT OF IMPACT: 1.25" LOW, 0.75" LEFT GROUP SHIFT FROM AMBIENT TO WARM: 0.74" LEFT
Maximum :	2995		
Minimum :	2947		
Extreme Variation :	47		
Average :	2965		
Standard Deviation :	16.61		
Avg +3 Std. Dev.:	3015		
Standard Error :	5.25		
Avg. + 2SE :	2975		
Avg. + 5SE :	2991		



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer: TELUDYNE

Job No.: 11988-01 Test Date: 11/2/11

AMMUNITION

Manufacturer: BLACK HILLS
 Type: 300 WIN MAG
 Bullet: BOAT-TAIL HP
 Catalog No.:
 Lot No.: 4513091811

Case: 300 WIN MAG
 Primer: UNKNOWN
 Bullet Wt.(gr.): 190
 Powder: UNKNOWN
 Overall Length (in.): 3.309

Conditioning: AMBIENT
 Loader: UNKNOWN
 Date Rec'd: 11/2/11
 Via: HAND CARRIED
 Returned: REMINGTON 300 WIN

WEAPON

Type: G7058478
 Ser. No.:

Barrel Length (in.):
 Reference Firing Date:

Velocity Correction (fps):

SET-UP

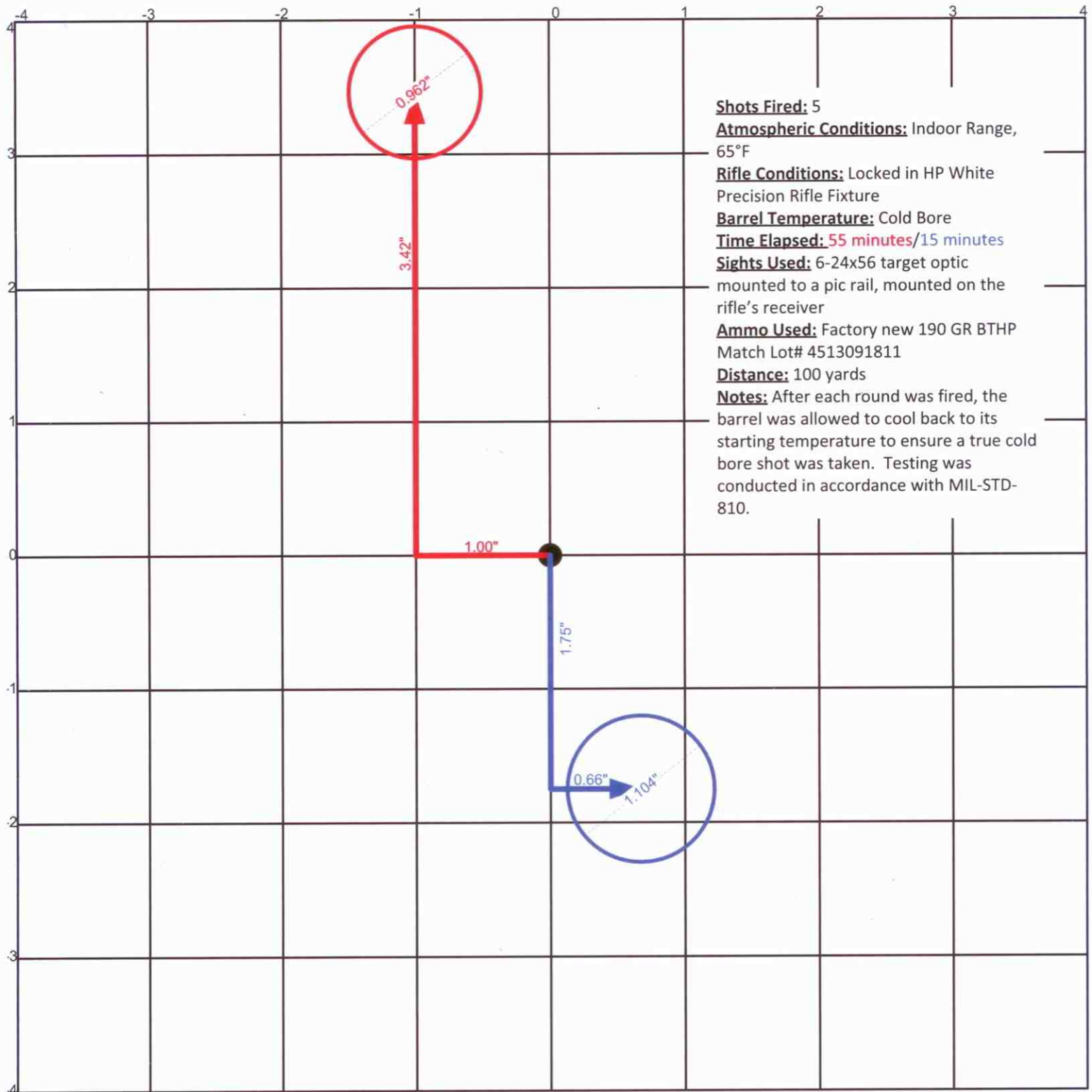
Vel. Screen 1: 5
 Vel. Screen 2: 25

Range No.: 6
 Gunner: BLACK
 Recorder: BLACK

Temperature (F): 70
 Barometer (in Hg): 29.56
 Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6818	2933	6816	2934	2934	2934	Y	
2	6745	2965	6753	2962	2963	2963	Y	
3	6795	2943	6803	2940	2942	2942	Y	
4	6725	2974	6731	2971	2973	2973	Y	
5	6741	2967	6749	2963	2965	2965	Y	
6	6829	2929	6839	2924	2927	2927	Y	
7	6723	2975	6726	2974	2974	2974	Y	
8	6726	2974	6735	2970	2972	2972	Y	
9	6702	2984	6713	2979	2982	2982	Y	
10	6736	2969	6744	2966	2967	2967	Y	
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RESULTS	Measured	SAAMI	REMARKS					
No. Data Points:	10	Reqmt.	WITH STRAIGHT JACKET SYSTEM					
Maximum:	2982		POST 20 ROUNDS FIRED WITHIN 3 MINUTES					
Minimum:	2927		BARREL RETURNED TO AMBIENT TEMPERATURE.					
Extreme Variation:	55		100 YARD DISPERSION (10 SHOT GROUP): 1.883"					
Average:	2960		POINT OF AIM VS. POINT OF IMPACT: 1.25" HIGH.					
Standard Deviation:	17.89							
Avg. +3 Std. Dev.:	3013							
Standard Error:	5.66							
Avg. + 2SE:	2971							
Avg. + 5SE:	2988							

MIL-SPEC Extreme Temperature Test



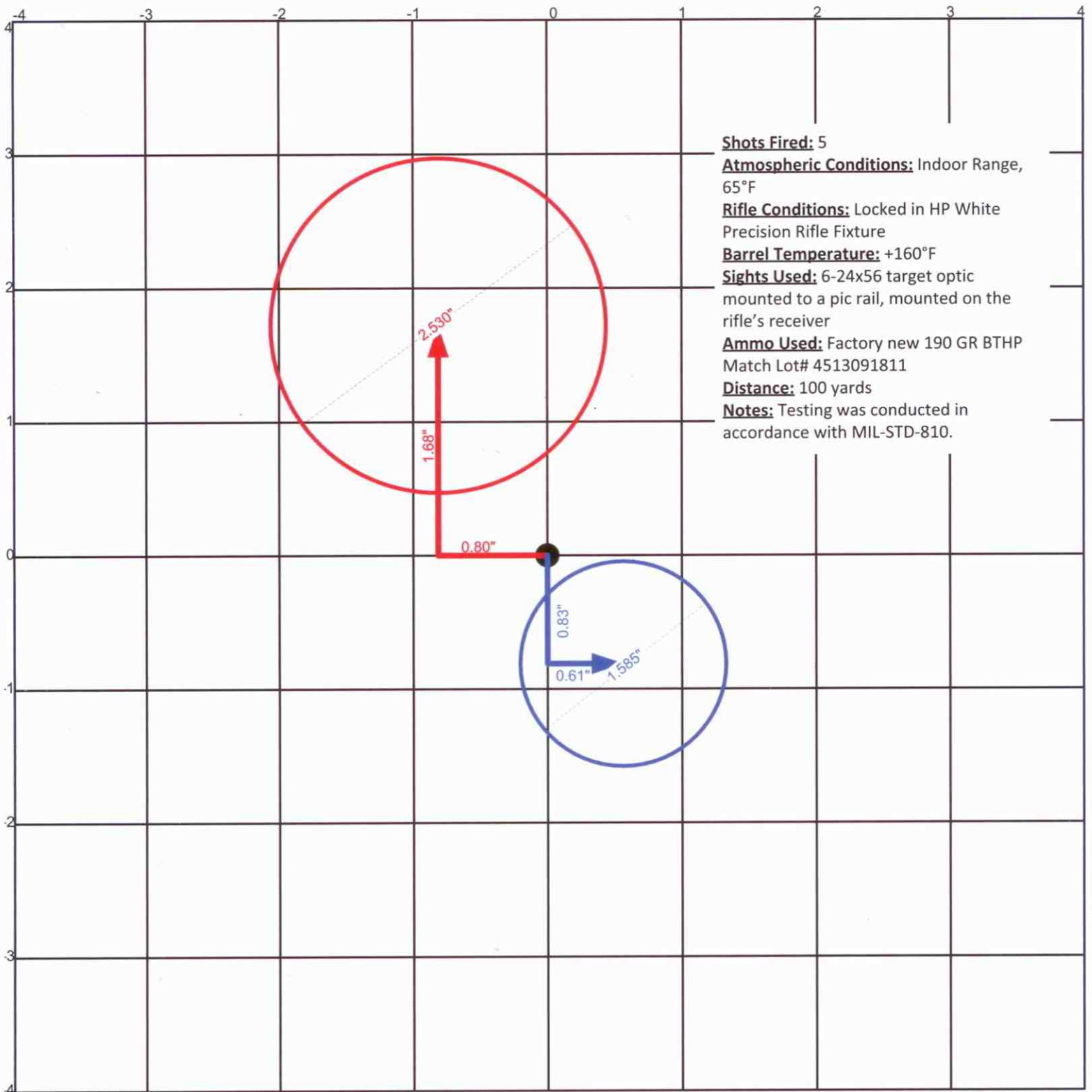
Shots Fired: 5
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Cold Bore
Time Elapsed: 55 minutes/15 minutes
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: After each round was fired, the barrel was allowed to cool back to its starting temperature to ensure a true cold bore shot was taken. Testing was conducted in accordance with MIL-STD-810.

Legend

- Point of Aim (POA)
- Test Rifle TTI-BR-01X**
- Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System
- Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

HP White Test Cycle - HPWLI 11988-01B-2

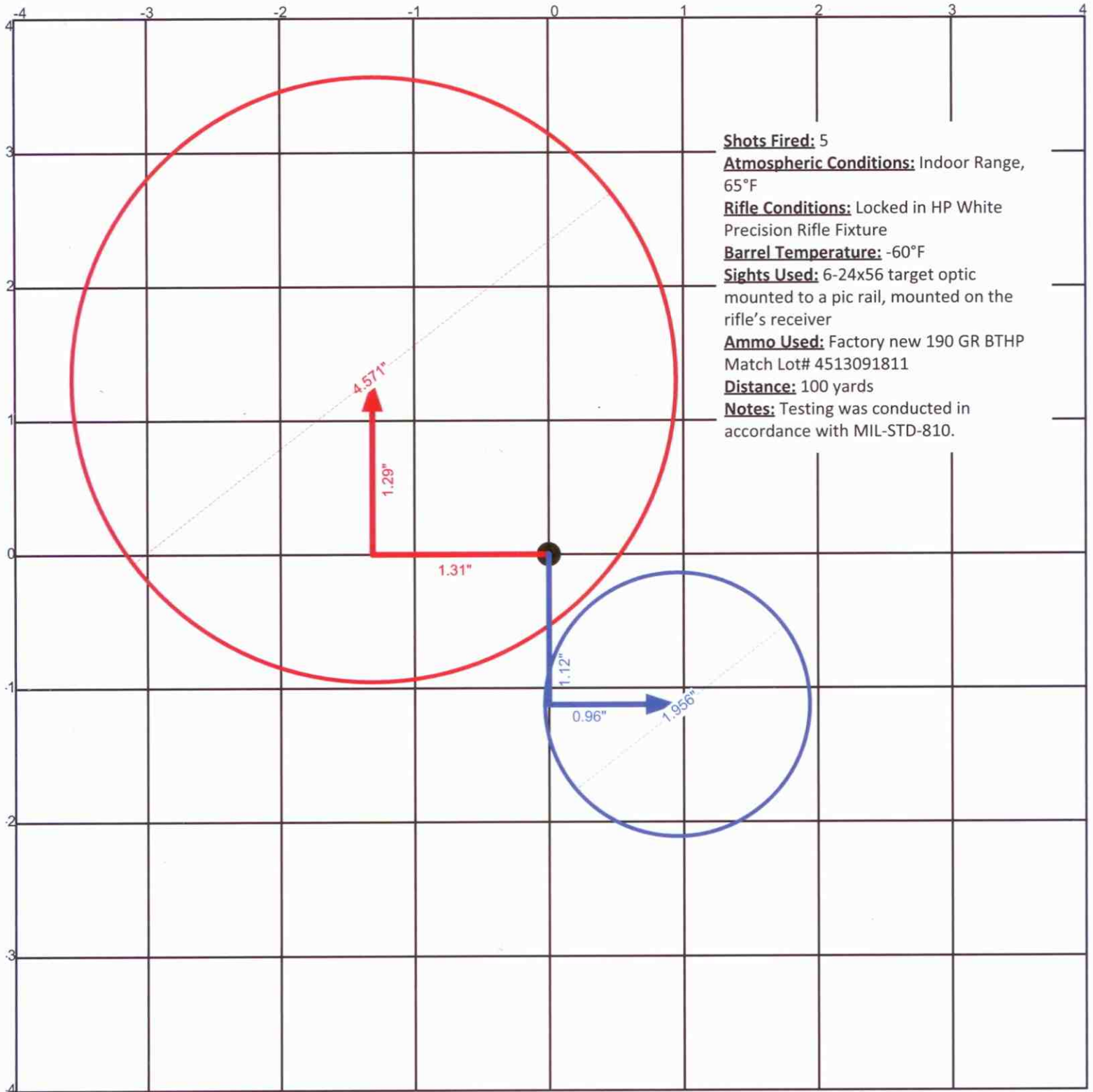
MIL-SPEC Extreme Temperature Test



Legend

- Point of Aim (POA)
- Test Rifle TTI-BR-01X
 - Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System
 - Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

MIL-SPEC Extreme Temperature Test



Shots Fired: 5
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: -60°F
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Testing was conducted in accordance with MIL-STD-810.

Legend

- Point of Aim (POA)
- Test Rifle TTI-BR-01X
 - Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System
 - Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

H.P. WHITE LABORATORY, INC.

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17 November 2011
(HPWLI 11988-01B)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. Temperature conditions were achieved by placing the entire firearm in thermal conditioning chambers. Once the internal barrel temperature reached the desired condition, the firearm was removed from the chamber and tested immediately. Table I presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech. Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures

H.P. WHITE LABORATORY, INC.

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Street, Maryland 21154-1822
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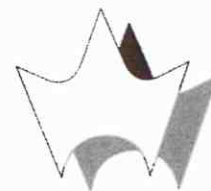


TABLE I. SUMMARY OF RESULTS

Condition	Bullet	Shots	Velocity (fps)		Dispersion At 100 Yards	Aim vs. Impact
			Mean	Extreme Variation		
-60 F	190gr. BTHP	5	2997	41	4.571"	1.29" High 1.31" Left
+160 F	190gr. BTHP	5	3035	48	2.530"	1.68" High 0.80" Left
COLD BORE (b)(d)	190gr. BTHP	5	3004	58	0.962"	3.42" High 1.00" Left
-60 F (a)	190gr. BTHP	5	2954	43	1.956"	1.12" Low 0.96" Right
+160 F (a)	190gr. BTHP	5	3002	84	1.585"	0.83" Low 0.61" Right
COLD BORE (a)(c)(d)	190gr. BTHP	5	2950	33	1.104"	1.75" Low 0.66" Right

(a) With Straight Jacket System
(b) Test Duration 55 Minutes
(c) Test Duration 15 Minutes
(d) Barrel returned to ambient temperature between shots.



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
 Type : 300 WIN MAG
 Bullet : BOAT-TAIL HP
 Catalog No. :
 Lot No. : 4513091811

Case : 300 WIN MAG
 Primer : UNKNOWN
 Bullet Wt.(gr.) : 190
 Powder : UNKNOWN
 Overall Length (in.) : 3.309

Conditioning : AMBIENT
 Loader : UNKNOWN
 Date Rec'd : 11/2/11
 Via : HAND CARRIED
 Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
 Ser. No.:

Barrel Length (in.) :
 Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
 Vel. Screen 2 : 25

Range No. : 6
 Gunner : BLACK
 Recorder : BLACK

Temperature (F): 70
 Barometer (in Hg): 29.56
 Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6772	2953	6778	2951	2952	2952	Y	
2	6702	2984	6706	2982	2983	2983	Y	
3	6790	2946	6794	2944	2945	2945	Y	
4	6781	2949	6785	2948	2949	2949	Y	
5	6801	2941	6804	2939	2940	2940	Y	
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RESULTS	Measured	SAAMI	REMARKS					
No. Data Points :	5	Reqmt.	WITH STRAIGHT JACKET SYSTEM					
Maximum :	2983		BARREL COOLED TO -60 F PRIOR TO TESTING					
Minimum :	2940		100 YARD DISPERSION (5 SHOT GROUP): 1.956"					
Extreme Variation :	43		POINT OF AIM VS. POINT OF IMPACT: 1.12" LOW, 0.96" RIGHT.					
Average :	2954							
Standard Deviation :	15.31							
Avg. +3 Std. Dev.:	3000							
Standard Error :	6.85							
Avg. + 2SE :	2967							
Avg. + 5SE :	2988							



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
 Type : 300 WIN MAG
 Bullet : BOAT-TAIL HP
 Catalog No. :
 Lot No. : 4513091811

Case : 300 WIN MAG
 Primer : UNKNOWN
 Bullet Wt.(gr.) : 190
 Powder : UNKNOWN
 Overall Length_o(in.) : 3.309

Conditioning : AMBIENT
 Loader : UNKNOWN
 Date Rec'd : 11/2/11
 Via : HAND CARRIED
 Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
 Ser. No. :

Barrel Length (in.) :
 Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
 Vel. Screen 2 : 25

Range No. : 6
 Gunner : BLACK
 Recorder : BLACK

Temperature (F) : 70
 Barometer (in Hg) : 29.56
 Rel. Humidity (%) : 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6771	2954	6762	2958	2956	2956	Y	
2	6636	3014	6628	3018	3016	3016	Y	
3	6582	3039	6576	3041	3040	3040	Y	
4	6668	2999	6658	3004	3002	3002	Y	
5	6672	2998	6667	3000	2999	2999	Y	
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RESULTS	Measured	SAAMI Reqmt.	REMARKS
No. Data Points :	5		WITH STRAIGHT JACKET SYSTEM BARREL HEATED TO 160 F PRIOR TO TESTING 100 YARD DISPERSION (5 SHOT GROUP): 1.585" POINT OF AIM VS. POINT OF IMPACT: 0.83" LOW, 0.61" RIGHT.
Maximum :	3040		
Minimum :	2956		
Extreme Variation :	84		
Average :	3002		
Standard Deviation :	27.49		
Avg. +3 Std. Dev. :	3085		
Standard Error :	12.30		
Avg. + 2SE :	3027		
Avg. + 5SE :	3064		



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
 Type : 300 WIN MAG
 Bullet : BOAT-TAIL HP
 Catalog No. :
 Lot No. : 4513091811

Case : 300 WIN MAG
 Primer : UNKNOWN
 Bullet Wt.(gr.) : 190
 Powder : UNKNOWN
 Overall Length (in.) : 3.309

Conditioning : AMBIENT
 Loader : UNKNOWN
 Date Rec'd : 11/2/11
 Via : HAND CARRIED
 Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
 Ser. No.:

Barrel Length (in.) :
 Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
 Vel. Screen 2 : 25

Range No. : 6
 Gunner : BLACK
 Recorder : BLACK

Temperature (F): 70
 Barometer (in Hg): 29.56
 Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6732	2971	6744	2966	2968	2968	Y	
2	6810	2937	6816	2934	2936	2936	Y	
3	6765	2956	6762	2958	2957	2957	Y	
4	6775	2952	6785	2948	2950	2950	Y	
5	6802	2940	6807	2938	2939	2939	Y	
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RESULTS	Measured	SAAMI	REMARKS					
No. Data Points :	5	Reqmt.	WITH STRAIGHT JACKET SYSTEM					
Maximum :	2968		COLD BORE					
Minimum :	2936		100 YARD DISPERSION (5 SHOT GROUP): 1.104"					
Extreme Variation :	33		POINT OF AIM VS. POINT OF IMPACT: 1.75" LOW, 0.66" RIGHT.					
Average :	2950		TEST DURATION: 15 MINUTES					
Standard Deviation :	11.89							
Avg.+3 Std. Dev.:	2986							
Standard Error :	5.32							
Avg. + 2SE :	2961							
Avg. + 5SE :	2977							



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
 Type : .300 WIN MAG.
 Bullet : BOAT-TAIL HP
 Catalog No. : UNKNOWN
 Lot No. : 4513091811

Case : .300 WIN MAG.
 Primer : UNKNOWN
 Bullet Wt.(gr.) : 190
 Powder : UNKNOWN
 Overall Length (in.) : 3.309

Conditioning : AMBIENT
 Loader : UNKNOWN
 Date Rec'd : 10/17/11
 Via : HAND CARRIED
 Returned : REMINGTON MODEL

WEAPON

Type : G7058478
 Ser. No.:

Barrel Length (in.) :
 Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
 Vel. Screen 2 : 25

Range No. : 6
 Gunner : BLACK
 Recorder : UNGER

Temperature (F): 65
 Barometer (in Hg): 29.89
 Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6545	3056	6545	3056	3056	3056	Y	
2	6557	3050	6557	3050	3050	3050	Y	
3	6649	3008	6649	3008	3008	3008	Y	
4	6572	3043	6572	3043	3043	3043	Y	
5	6622	3020	6622	3020	3020	3020	Y	
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RESULTS	Measured	SAAMI	REMARKS					
No. Data Points :	5	Reqmt.	BARREL HEATED TO 160 F PRIOR TO TESTING.					
Maximum :	3056		100 YARD DISPERSION (5 SHOT GROUP): 2.530"					
Minimum :	3008		POINT OF AIM VS. POINT OF IMPACT: 1.68" HIGH, 0.80" LEFT					
Extreme Variation :	48							
Average :	3035							
Standard Deviation :	18.31							
Avg. +3 Std. Dev.:	3090							
Standard Error :	8.19							
Avg. + 2SE :	3052							
Avg. + 5SE :	3076							



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
 Type : .300 WIN MAG.
 Bullet : BOAT-TAIL HP
 Catalog No. : UNKNOWN
 Lot No. : 4513091811

Case : .300 WIN MAG.
 Primer : UNKNOWN
 Bullet Wt.(gr.) : 190
 Powder : UNKNOWN
 Overall Length (in.) : 3.309

Conditioning : AMBIENT
 Loader : UNKNOWN
 Date Rec'd : 10/17/11
 Via : HAND CARRIED
 Returned : REMINGTON MODEL

WEAPON

Type : G7058478
 Ser. No.:

Barrel Length (in.) :
 Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
 Vel. Screen 2 : 25

Range No.: 6
 Gunner : BLACK
 Recorder : UNGER

Temperature (F): 65
 Barometer (in Hg): 29.89
 Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6728	2973	6728	2973	2973	2973	Y	
2	6709	2981	6709	2981	2981	2981	Y	
3	6664	3001	6664	3001	3001	3001	Y	
4	6636	3014	6636	3014	3014	3014	Y	
5	6636	3014	6636	3014	3014	3014	Y	
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RESULTS	Measured	SAAMI Reqmt.	REMARKS
No. Data Points :	5		BARREL COOLED TO -60 F PRIOR TO TESTING. 100 YARD DISPERSION (5 SHOT GROUP): 4.571" POINT OF AIM VS. POINT OF IMPACT: 1.29" HIGH, 1.31" LEFT
Maximum :	3014		
Minimum :	2973		
Extreme Variation :	41		
Average :	2997		
Standard Deviation :	16.92		
Avg. +3 Std. Dev.:	3047		
Standard Error :	7.57		
Avg. + 2SE :	3012		
Avg. + 5SE :	3034		



H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

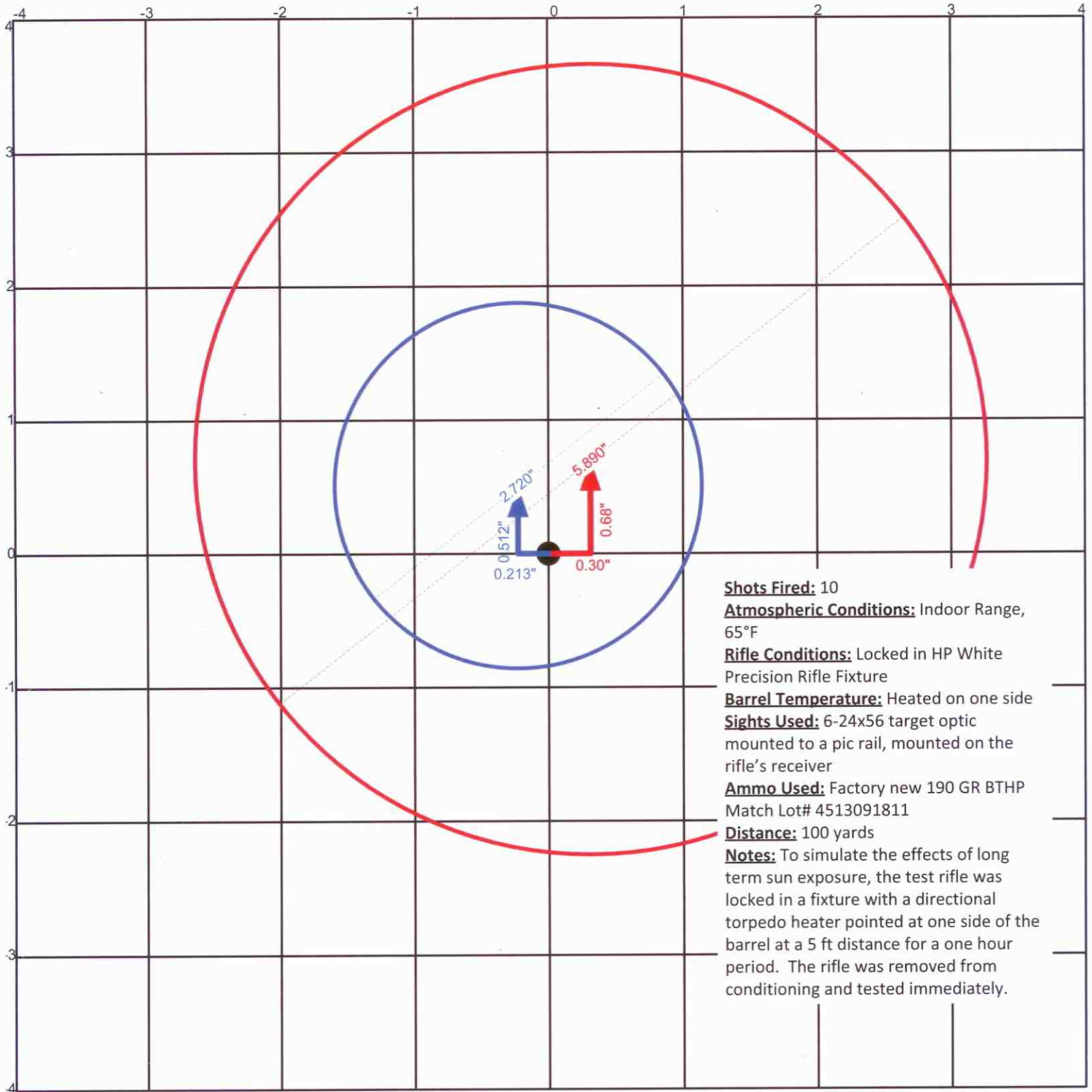
Range No. : 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6690	2990	6690	2990	2990	2990	Y	
2	6711	2980	6711	2980	2980	2980	Y	
3	6582	3039	6582	3039	3039	3039	Y	
4	6661	3003	6661	3003	3003	3003	Y	
5	6644	3010	6644	3010	3010	3010	Y	
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RESULTS	Measured	SAAMI	REMARKS
No. Data Points :	5	Reqmt.	Cold Bore 100 YARD DISPERSION (5 SHOT GROUP): 0.962" POINT OF AIM VS. POINT OF IMPACT: 3.42" HIGH, 1.00" LEFT TEST DURATION: 55 MINUTES
Maximum :	3039		
Minimum :	2980		
Extreme Variation :	58		
Average :	3004		
Standard Deviation :	20.07		
Avg. +3 Std. Dev.:	3064		
Standard Error :	8.97		
Avg. + 2SE :	3022		
Avg. + 5SE :	3049		

Directional Heat Influence Test



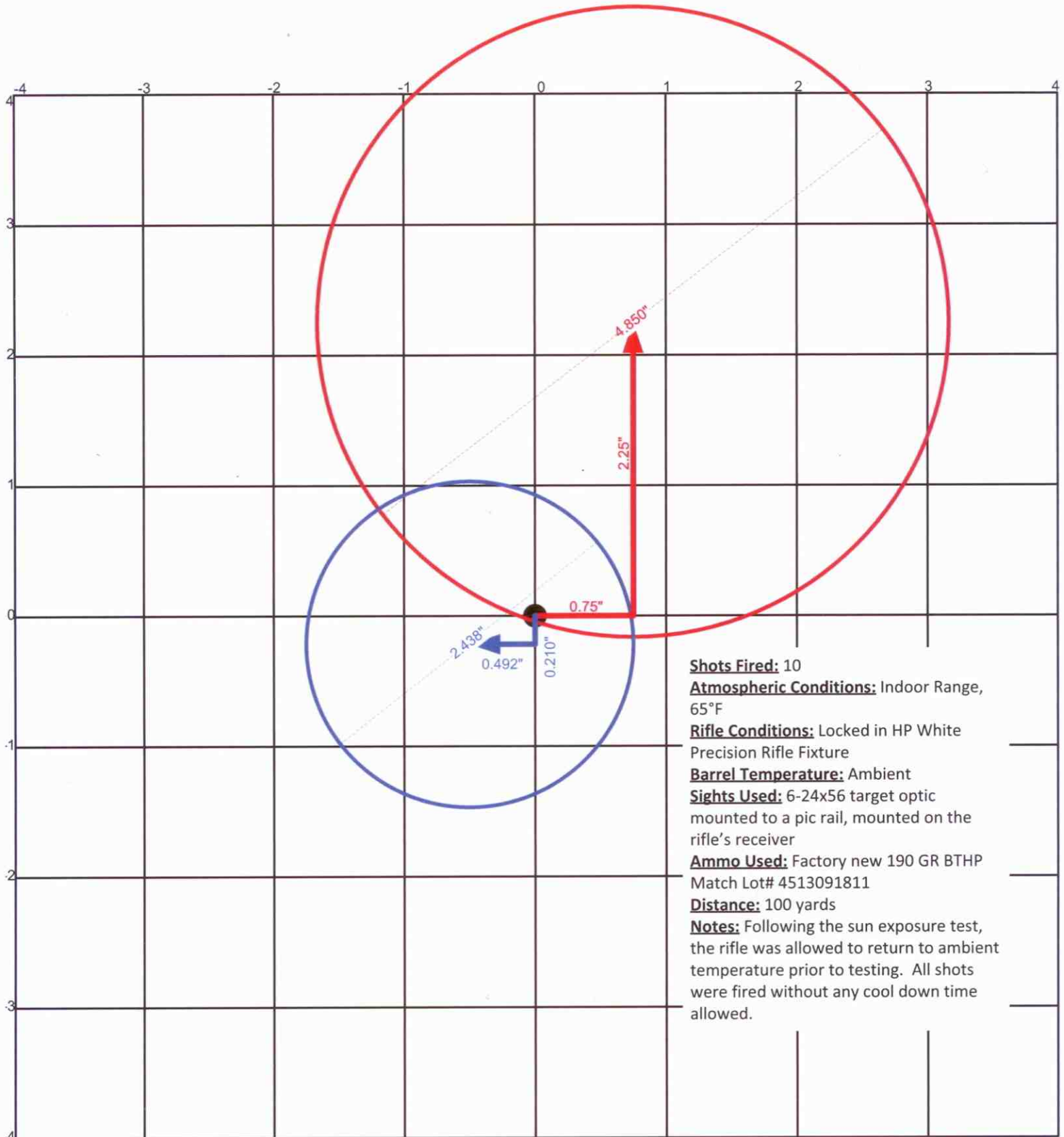
Shots Fired: 10
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Heated on one side
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: To simulate the effects of long term sun exposure, the test rifle was locked in a fixture with a directional torpedo heater pointed at one side of the barrel at a 5 ft distance for a one hour period. The rifle was removed from conditioning and tested immediately.

Legend

- Point of Aim (POA)
- Test Rifle TTI-BR-01X**
- Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System
- Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

HP White Test Cycle - HPWLI 11988-01C-2

Directional Heat Influence Test



Shots Fired: 10

Atmospheric Conditions: Indoor Range, 65°F

Rifle Conditions: Locked in HP White Precision Rifle Fixture

Barrel Temperature: Ambient

Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver

Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811

Distance: 100 yards

Notes: Following the sun exposure test, the rifle was allowed to return to ambient temperature prior to testing. All shots were fired without any cool down time allowed.

Legend

■ Point of Aim (POA)

■ Test Rifle TTI-BR-01X

■ Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System

■ Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

H.P. WHITE LABORATORY, INC.

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Email: info@hpwhite.com
www.hpwhite.com



30 November 2011
(HPWLI 11988-01C)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. Temperature conditions were achieved by placing a directional torpedo heater on one side of the barrel at a distance of five feet for a period of one hour. The firearm was removed from conditioning and tested immediately. Table 1 presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech. Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures

