

57686 8449

Replaces

57659 0229

07/22/09 10:28:24

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: RE00171686

Serial: G6590229 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Status:

Closed 7/22/2009 8:48:35 AM

Verify Repair

Address Information

Customer:

Received From

Return To:

Received From

Name: TRANSPORTATION OFFICER

TRANSPORTATION OFFICER

Address 1: USPFO FOR ARKANSAS BLDG 0318

USPFO FOR ARKANSAS BLDG 0318

Address 2: CAMP ROBINSON

PO Box:

CAMP ROBINSON

PO Box:

City: NORTH LITTLE ROCK

NORTH LITTLE ROCK

State: AR

Zip Code: 72199

Country: US

State: AR

Zip Code: 72199

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NN

Fax:

Email:

Comments:

Received Condition

Fair

Condition

Notes:

CSR

Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

naglel

7/22/2009

10:28 AM

CAPS

NUM

INS

SCRL

start

Arms Services Repair...

10:28 AM

G6868449

Serial Number:

~~G6590229~~

Model: M24 SWS



RE00171686

M-24
INSPECTION CHECKLIST - REPAIRS
CONTRACT #: W52H09-07-C-0207
ISSUED 10/1/2007

R & E NUMBER 171686 -
SERIAL NUMBER 66590229 66868449
LOG-IN DATE 7-22-09

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	7-27-09	RTZ
505	RE-BARREL	7-28-09	RTZ
420	ASSEMBLE	7-28-09	RTZ
440	PROOF	7-28-09	RTZ
460	CHECK HEADSPACE	7-28-09	RTZ
470	DIS-ASSEMBLE GUN	7-28-09	RTZ
480	MAGNAFLUX	7/31/09	RTZ
510	DRILL AND TAP	7-29-09	SP
500	ROLLMARK CALIBER	7-31-09	RTZ
520	GOFF BLAST BBL / REC	7/31/09	RTZ
530 & 540	APPLY COATINGS	8/1/09	RTZ
560	FINAL ASSEMBLY	8/1/09	RTZ
640	FUNCTION TEST AND	8-19-09	RTZ
650	TARGET	8-19-09	RTZ
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	8-19-09	RTZ
	A) HEADSPACE	8-20-09	RTZ
	B) TRIGGER PULL	269 270 279 265 269 8-20-09	RTZ
680	F) SAFETY ON FORCE	575 552 525 8-20-09	RTZ
	G) SAFETY OFF FORCE	250 250 250 8-20-09	RTZ
	I) FIRING PIN INDENT	023 024 023 8-20-09	RTZ
690	PACK	8/20/09	FM

F006 REV 1/2009

For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG

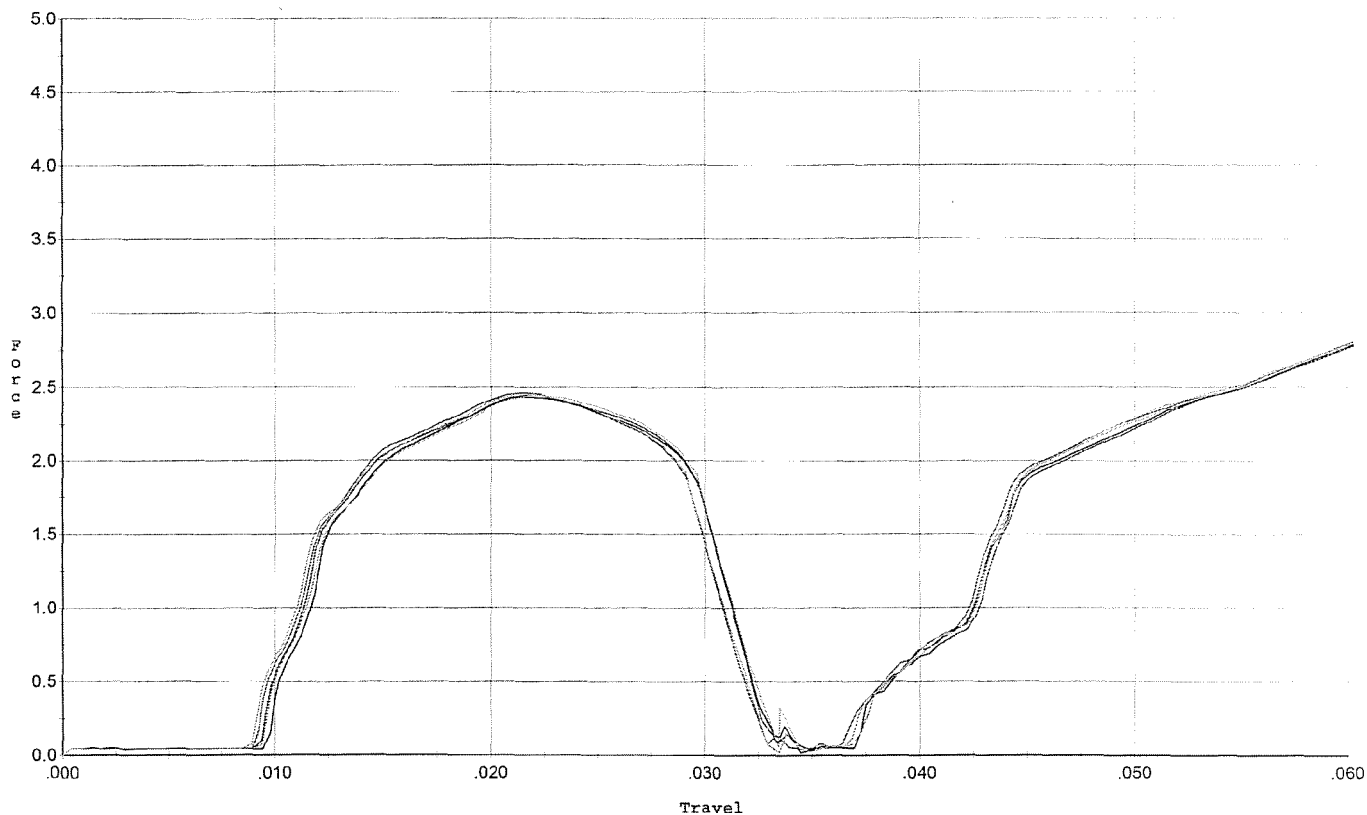
For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG

DA FORM 2404, APR 1979 Replaces edition of 1 Jan 64, which will be used APD PE v1.10

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: 2.5 lbs. ini. +/- .50 lbs.



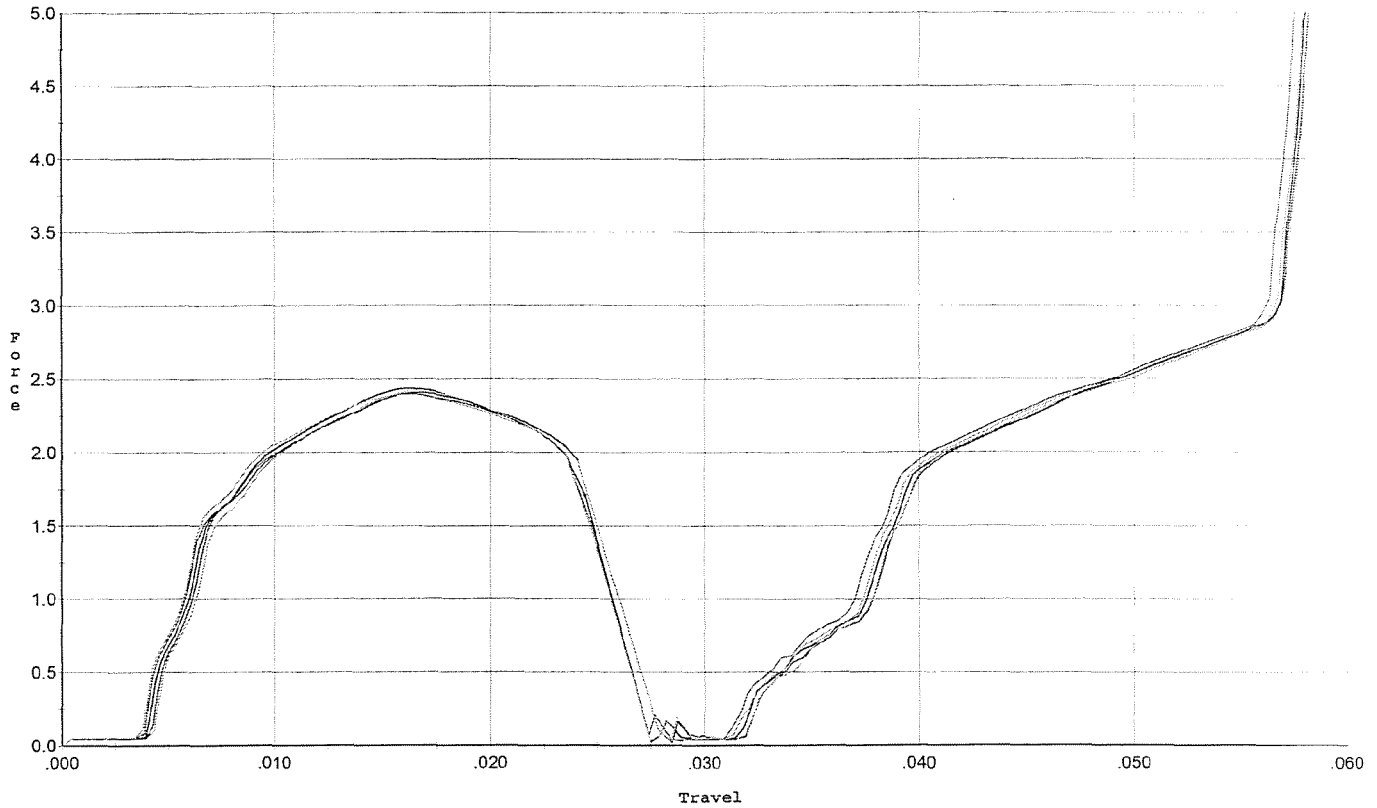
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.432	0.030	0.010	0.040	0.040		Set Trigger
2	2.446	0.030	0.010	0.039	0.040		Set Trigger
3	2.459	0.029	0.009	0.040	0.040		Set Trigger
4	2.443	0.030	0.010	0.039	0.040		Set Trigger
5	2.455	0.029	0.009	0.040	0.040		Set Trigger

Avg 2.44

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: 2.5 lbs. after 50 cycles +/- .50 lbs.



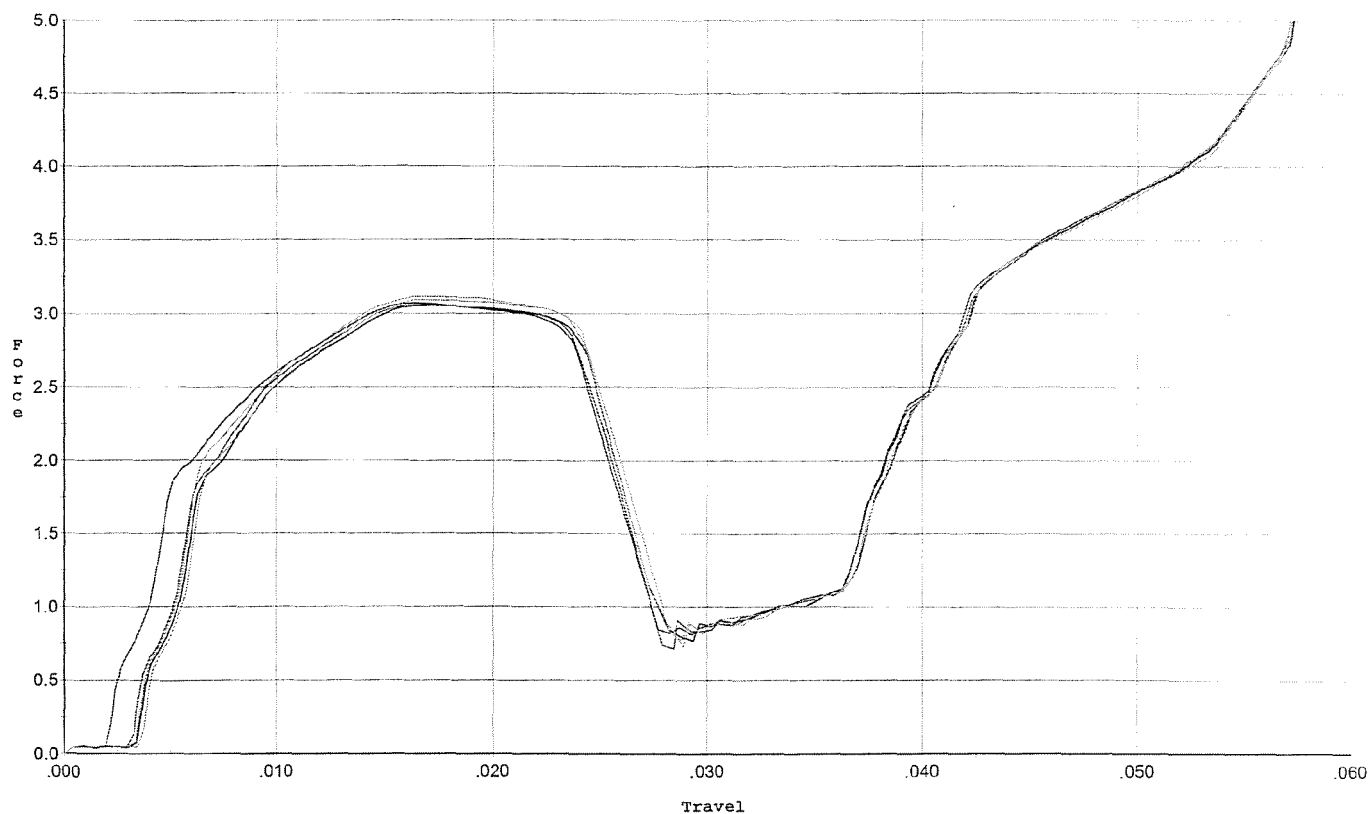
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.409	0.026	0.004	0.039	0.041		Set Trigger
2	2.435	0.024	0.004	0.038	0.039		Set Trigger
3	2.404	0.025	0.004	0.038	0.039		Set Trigger
4	2.428	0.026	0.005	0.038	0.040		Set Trigger
5	2.395	0.025	0.004	0.038	0.040		Set Trigger

Aug 24/1

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: 3.0 lbs. ini. +/- .75 lbs.



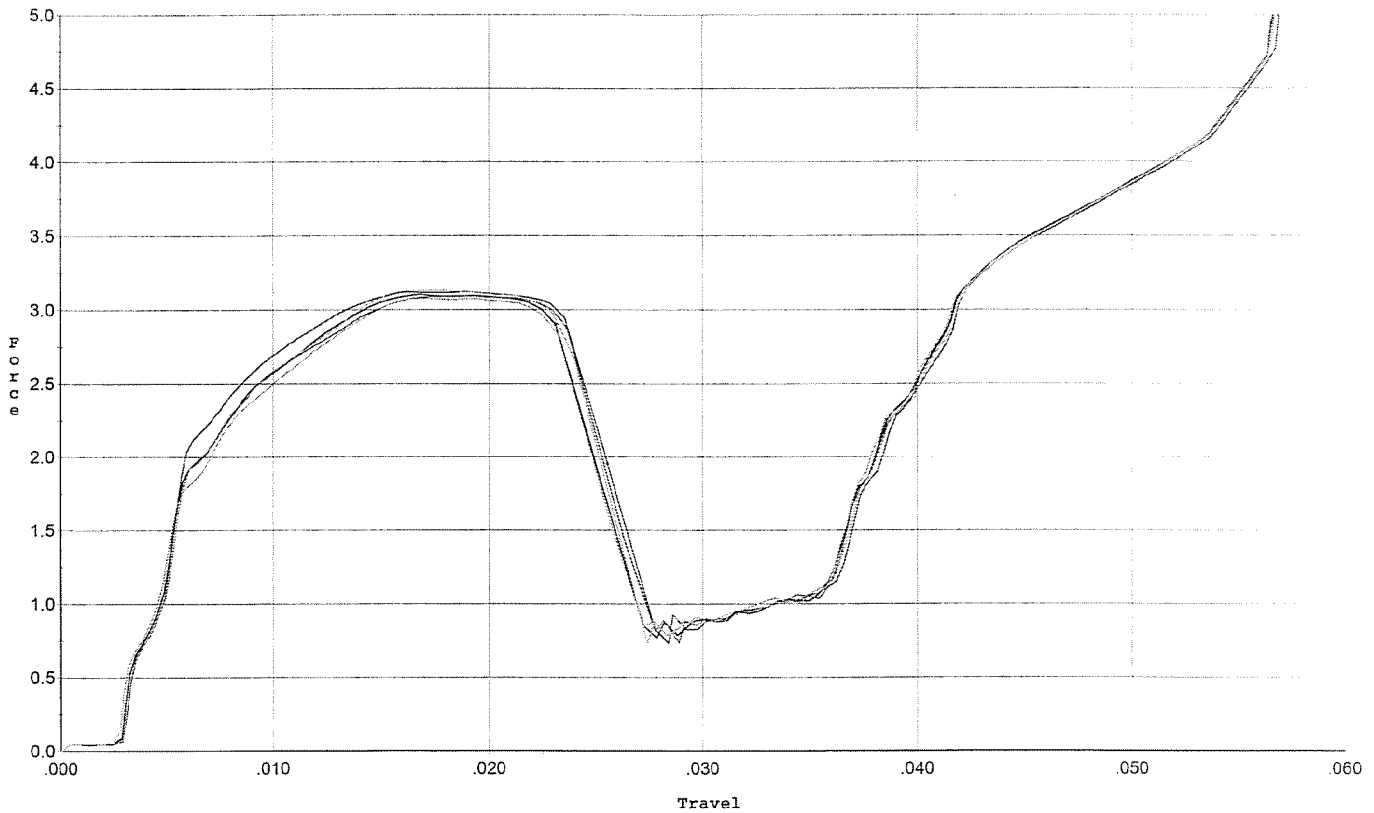
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.073	0.024	0.00	0.037	0.052		Set Trigger
2	3.058	0.024	0.004	0.037	0.050		Set Trigger
3	3.061	0.025	0.003	0.037	0.053		Set Trigger
4	3.092	0.026	0.004	0.036	0.054		Set Trigger
5	3.116	0.024	0.004	0.037	0.052		Set Trigger

Avg 3.08

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: 3.0 lbs. after 20 cycles +/- .75 lbs.



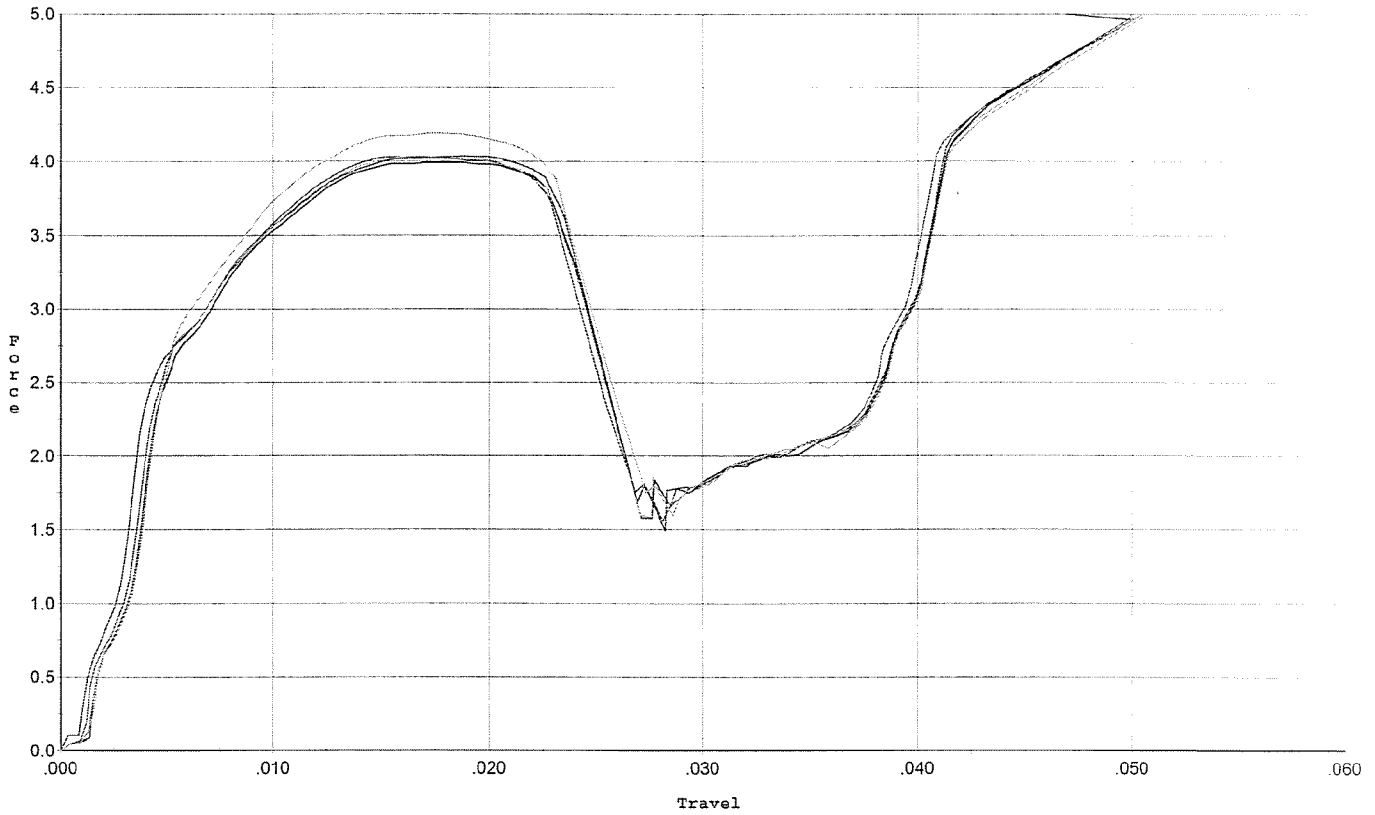
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.123	0.026	0.003	0.036	0.056		Set Trigger
2	3.103	0.023	0.003	0.037	0.049		Set Trigger
3	3.094	0.024	0.003	0.036	0.050		Set Trigger
4	3.133	0.024	0.003	0.036	0.051		Set Trigger
5	3.078	0.023	0.003	0.037	0.049		Set Trigger

Avg 3.10

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: 4.0 lbs. ini. +/- 1.0 lbs.



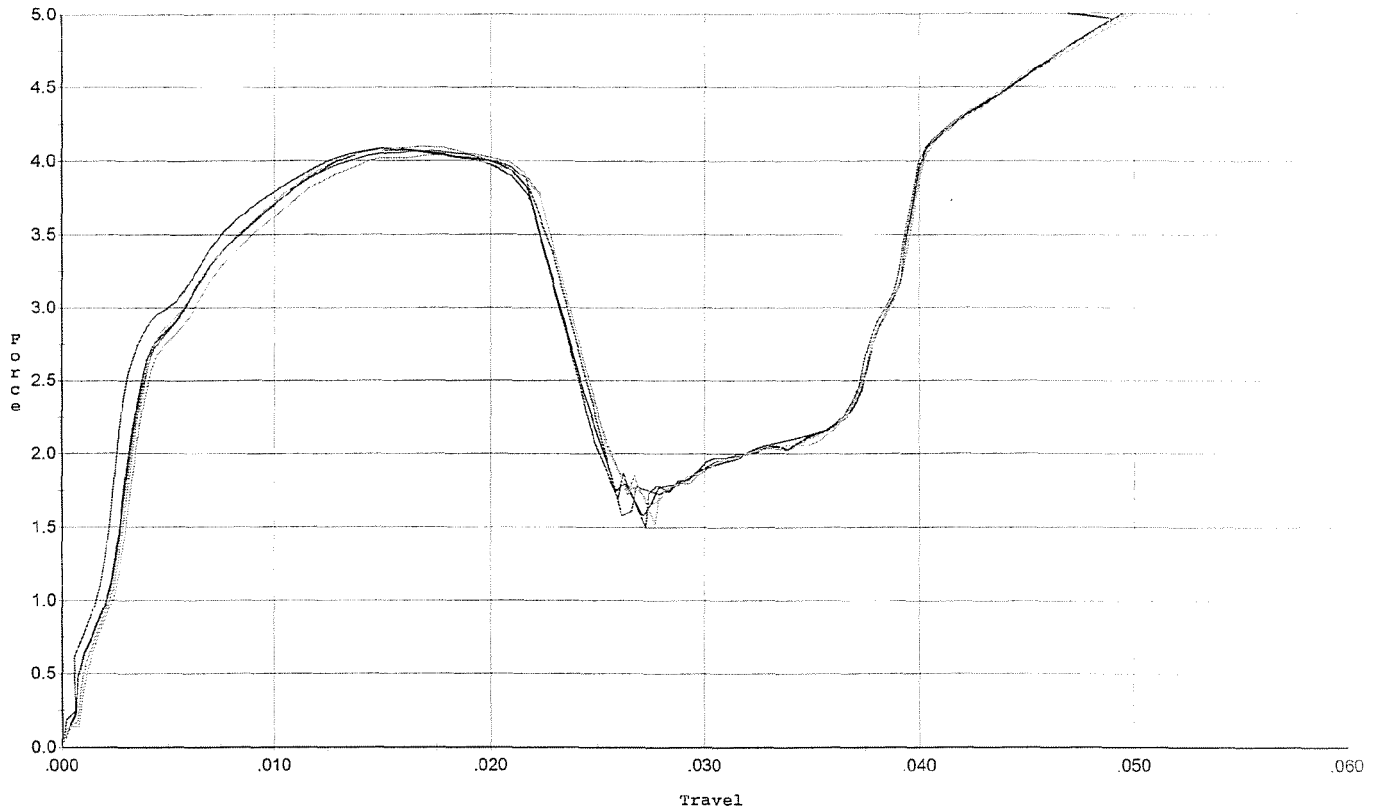
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.034	0.023	0.00	0.033	0.069		Set Trigger
2	3.991	0.024	0.00	0.033	0.069		Set Trigger
3	4.031	0.023	0.00	0.033	0.066		Set Trigger
4	4.190	0.023	0.00	0.033	0.069		Set Trigger
5	4.024	0.024	0.00	0.033	0.070		Set Trigger

Avg 4.05

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: 4.0 lbs. after 20 cycles +/- 1.0 lbs.



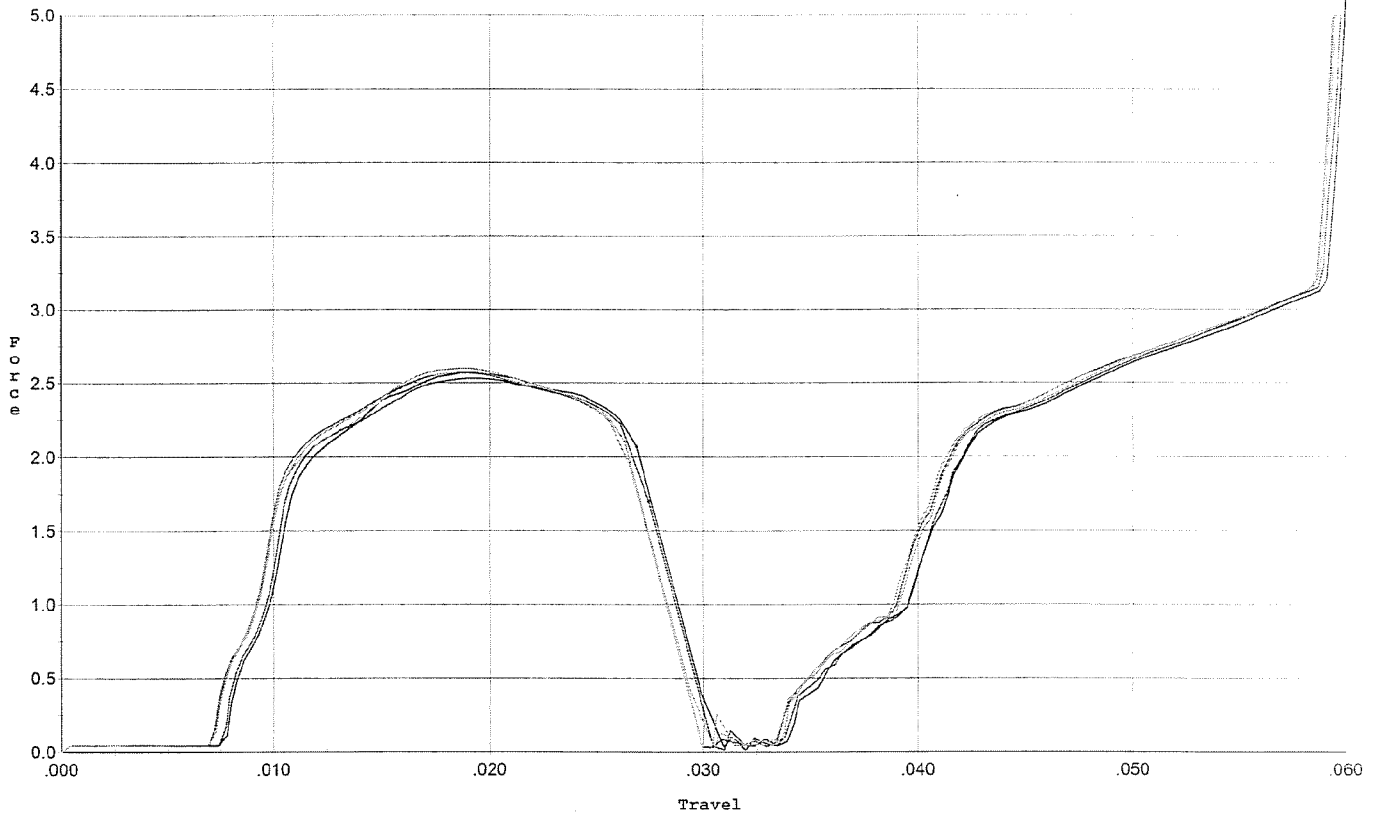
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.085	0.022	0.00	0.033	0.067		Set Trigger
2	4.075	0.022	0.00	0.033	0.065		Set Trigger
3	4.070	0.023	0.00	0.033	0.069		Set Trigger
4	4.036	0.022	0.00	0.033	0.066		Set Trigger
5	4.096	0.022	0.00	0.033	0.067		Set Trigger

Avg 4.07

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: reset to 2.5 lbs. +/- .50 lbs. for final test



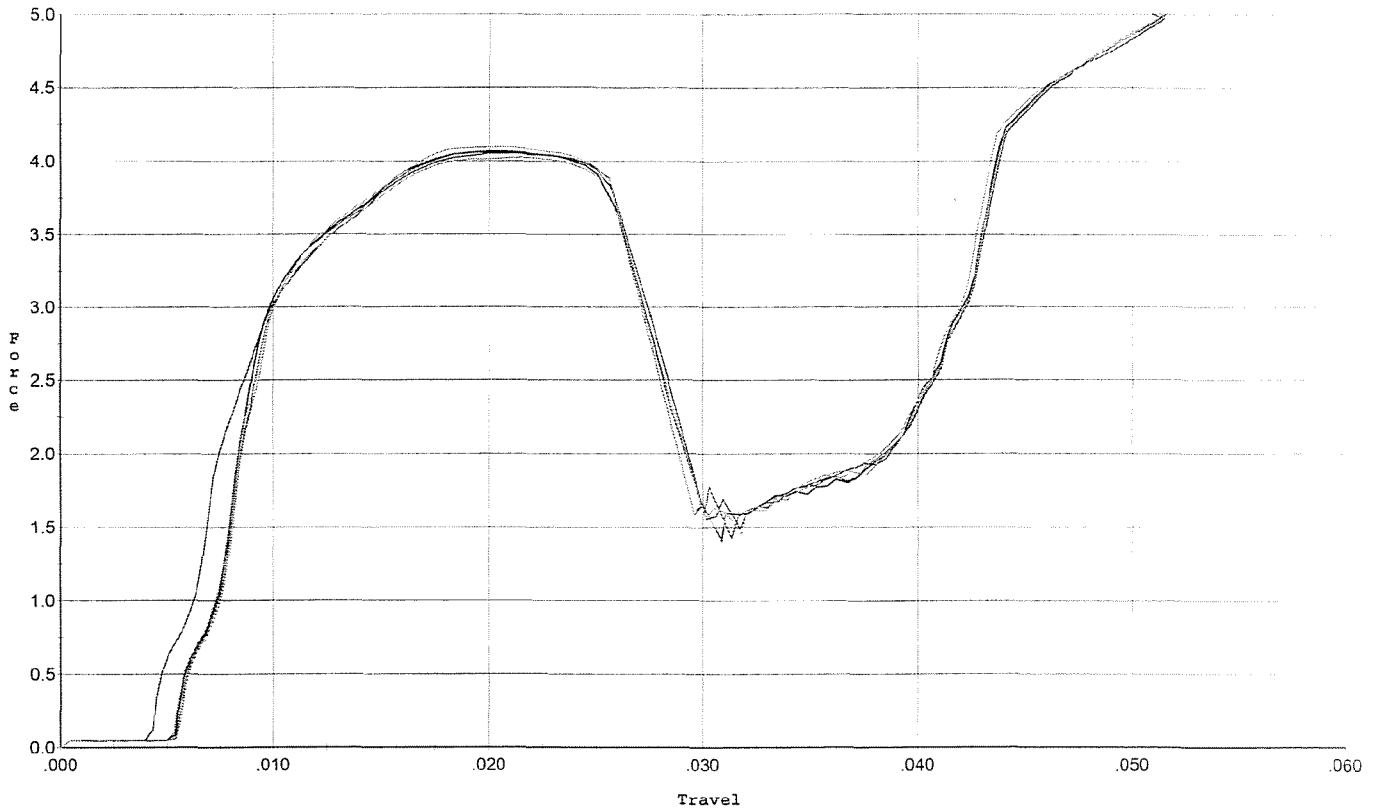
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.532	0.027	0.008	0.038	0.041		Set Trigger
2	2.570	0.027	0.008	0.038	0.040		Set Trigger
3	2.568	0.027	0.007	0.038	0.041		Set Trigger
4	2.573	0.027	0.007	0.038	0.040		Set Trigger
5	2.599	0.026	0.007	0.039	0.040		Set Trigger

Avg 2.56

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R.P. 6/23/09

Model: M/24
Serial No: Form #F005
Trigger: set to 4.0 lbs. +/- 1.0 lbs. for target & accuracy



#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.053	0.028	0.004	0.033	0.072		Set Trigger
2	4.061	0.026	0.006	0.033	0.065		Set Trigger
3	4.067	0.026	0.006	0.033	0.065		Set Trigger
4	4.100	0.026	0.006	0.034	0.064		Set Trigger
5	4.026	0.026	0.005	0.033	0.065		Set Trigger

Aug 4.06

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6868449.___0

FILE DATE AND TIME: 08/20/2009 05:43

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.044
The Average Y Centroid of the Five Target Set:	-0.031
The Average Point of Impact of the Five Target Set:	0.053
The Average Mean Radius of the Five Target Set:	0.750
The Distance from POA to Centroid Target #1:	0.018
The Distance from Centroid Target #2 to Centroid Target #1:	0.131
The Distance from Centroid Target #3 to Centroid Target #1:	0.075
The Distance from Centroid Target #4 to Centroid Target #1:	0.117
The Distance from Centroid Target #5 to Centroid Target #1:	0.136

SERIAL NUMBER: G6868449. __0

TARGET NUMBER: 1

FILE DATE: 08/20/2009

FILE TIME: 05:43

POINT#	X	Y
1:	-0.176	0.862
2:	-0.110	-0.536
3:	-0.895	-0.057
4:	-0.534	-0.033
5:	-0.396	0.201
6:	-0.091	0.034
7:	0.086	0.037
8:	0.371	-0.174
9:	0.479	-0.513
10:	1.425	0.260

X CENTROID: 0.016

Y CENTROID: 0.008

POA TO CENTROID: 0.018

HORZ SPREAD: 2.320

VERT SPREAD: 1.398

GROUP SPREAD: 2.342

MIN RADIUS: 0.076

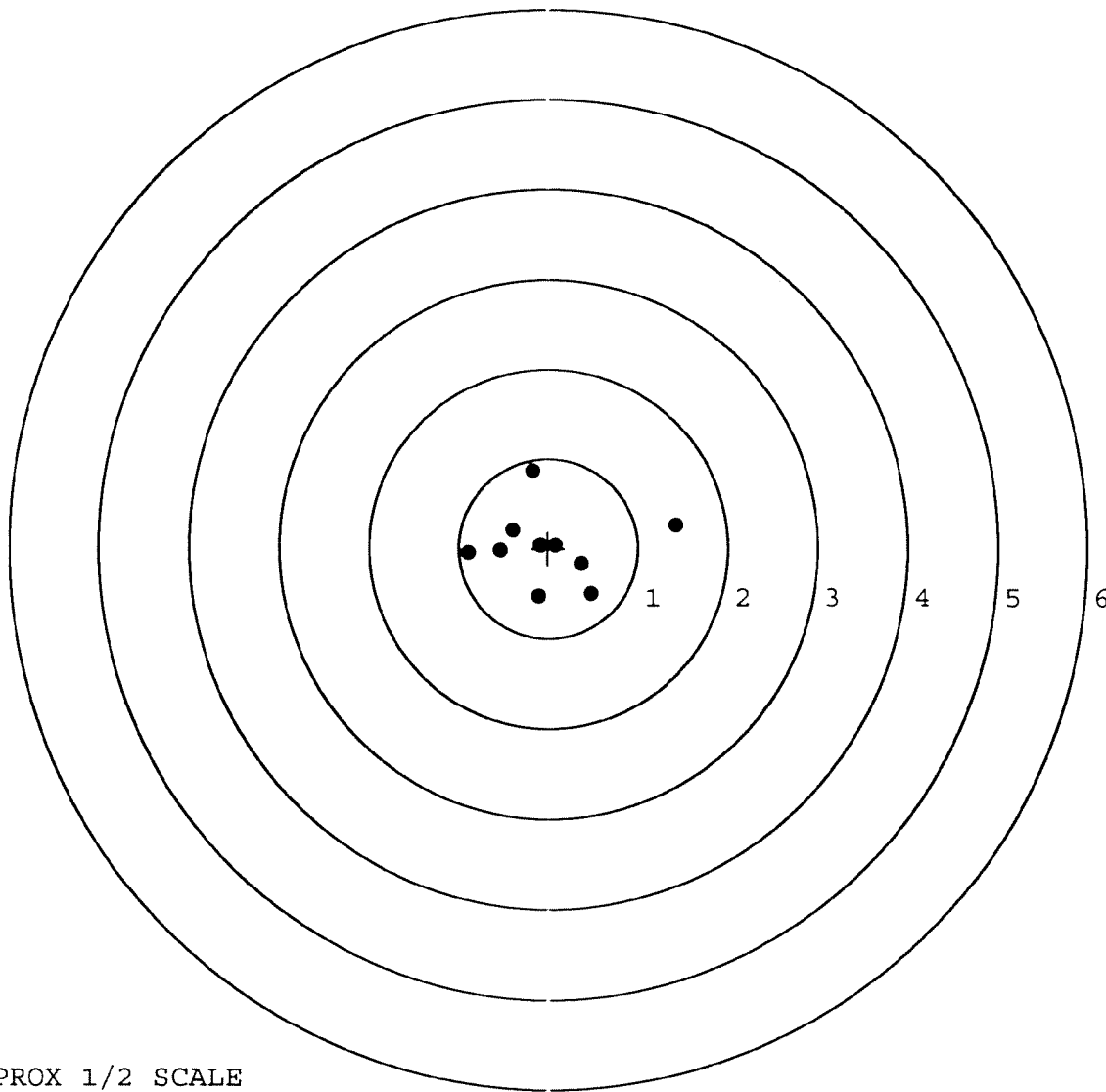
MAX RADIUS: 1.431

MEAN RADIUS: 0.607

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

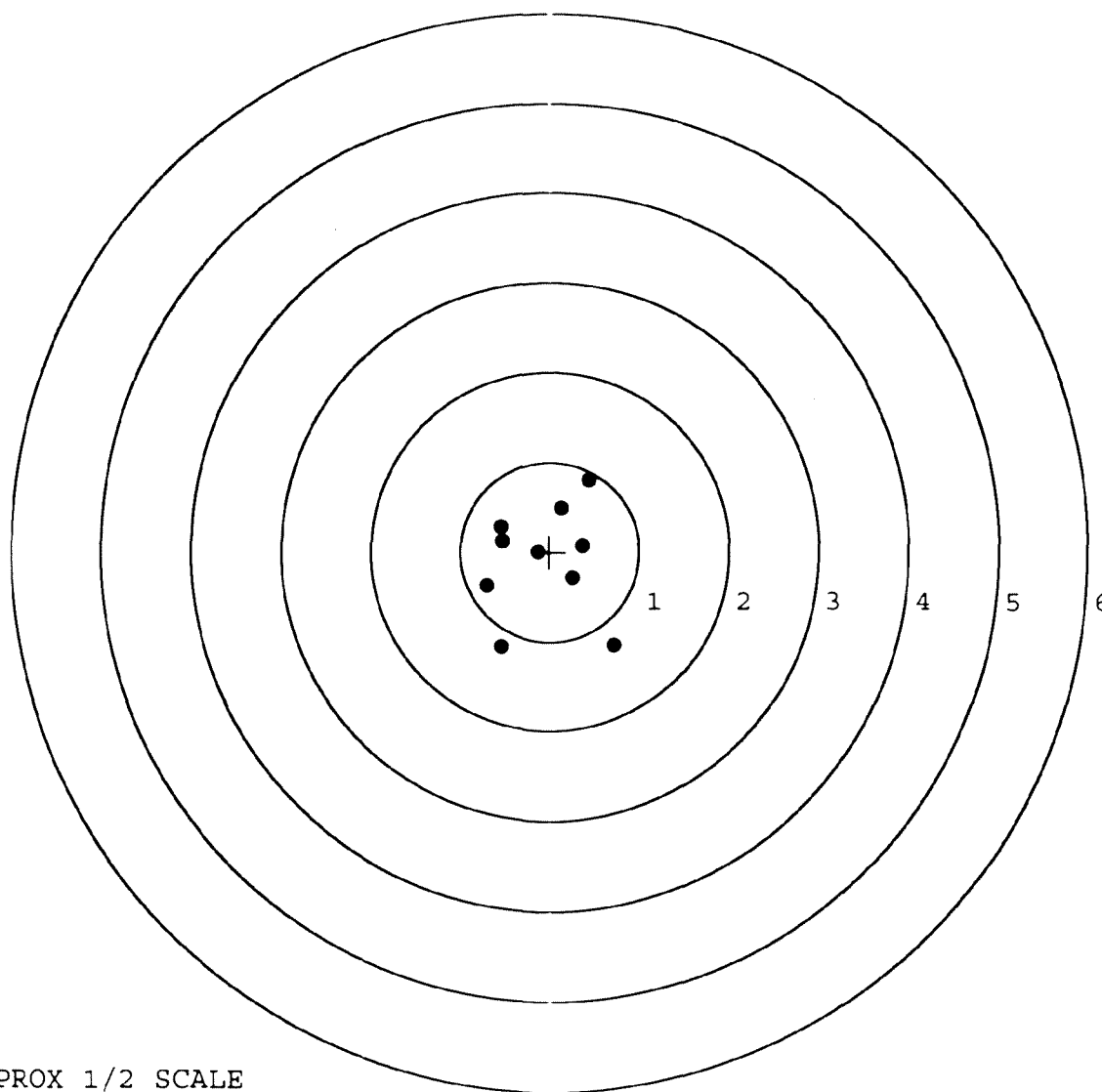


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6868449. __0
TARGET NUMBER: 2
FILE DATE: 08/20/2009
FILE TIME: 05:43

X CENTROID: -0.056
Y CENTROID: -0.102
POA TO CENTROID: 0.116
HORZ SPREAD: 1.416
VERT SPREAD: 1.868
GROUP SPREAD: 1.863
MIN RADIUS: 0.128
MAX RADIUS: 1.215
MEAN RADIUS: 0.674
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.546	-1.066
2:	0.715	-1.040
3:	-0.701	-0.381
4:	-0.549	0.280
5:	-0.128	0.004
6:	0.254	-0.287
7:	0.367	0.067
8:	0.436	0.802
9:	0.127	0.487
10:	-0.537	0.118



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6868449. __0

TARGET NUMBER: 3

FILE DATE: 08/20/2009

FILE TIME: 05:43

POINT#	X	Y
1:	1.526	-0.201
2:	0.733	0.681
3:	-0.721	-0.885
4:	-0.167	-0.434
5:	0.059	-0.414
6:	0.138	-0.009
7:	-0.014	0.720
8:	-0.058	0.454
9:	-0.306	0.473
10:	-0.487	0.218

X CENTROID: 0.070

Y CENTROID: 0.060

POA TO CENTROID: 0.093

HORZ SPREAD: 2.247

VERT SPREAD: 1.605

GROUP SPREAD: 2.349

MIN RADIUS: 0.097

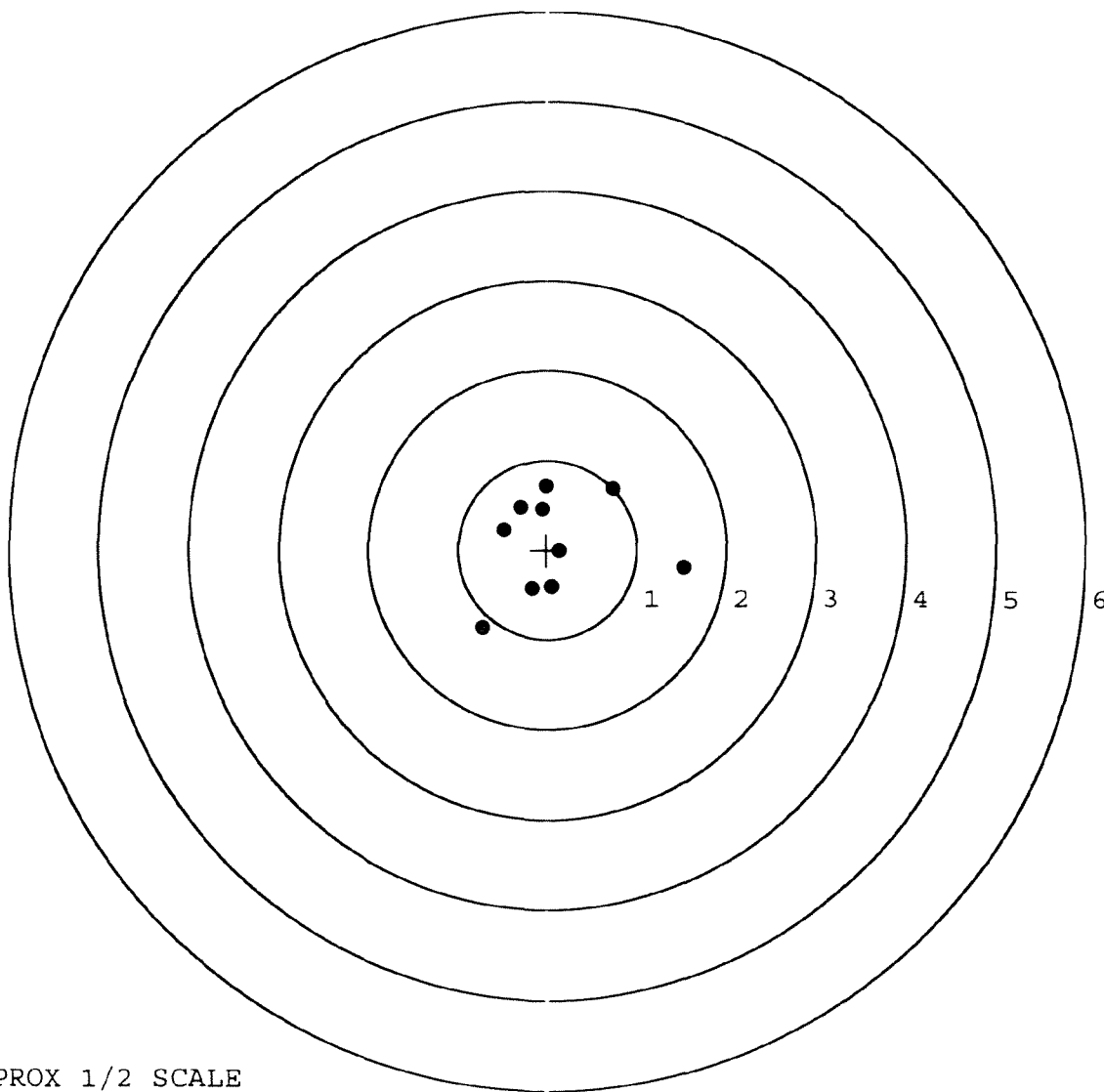
MAX RADIUS: 1.479

MEAN RADIUS: 0.696

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

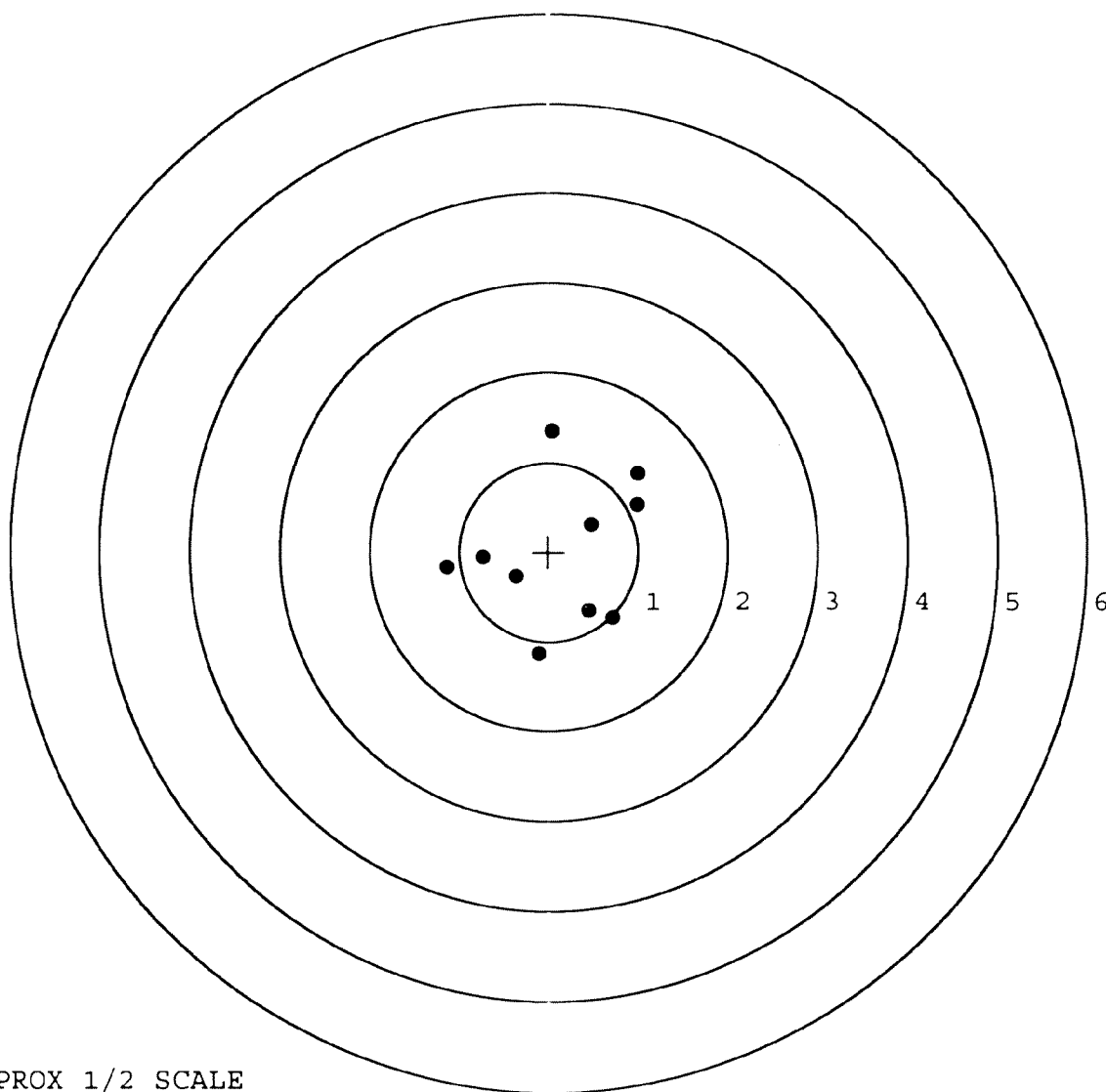


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6868449. __0
TARGET NUMBER: 4
FILE DATE: 08/20/2009
FILE TIME: 05:43

POINT#	X	Y
1:	-1.140	-0.177
2:	-0.734	-0.065
3:	-0.362	-0.274
4:	-0.109	-1.144
5:	0.715	-0.736
6:	0.451	-0.657
7:	0.480	0.311
8:	0.989	0.528
9:	0.996	0.879
10:	0.042	1.353

X CENTROID: 0.133
Y CENTROID: 0.002
POA TO CENTROID: 0.133
HORZ SPREAD: 2.136
VERT SPREAD: 2.497
GROUP SPREAD: 2.502
MIN RADIUS: 0.465
MAX RADIUS: 1.354
MEAN RADIUS: 0.962
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 10

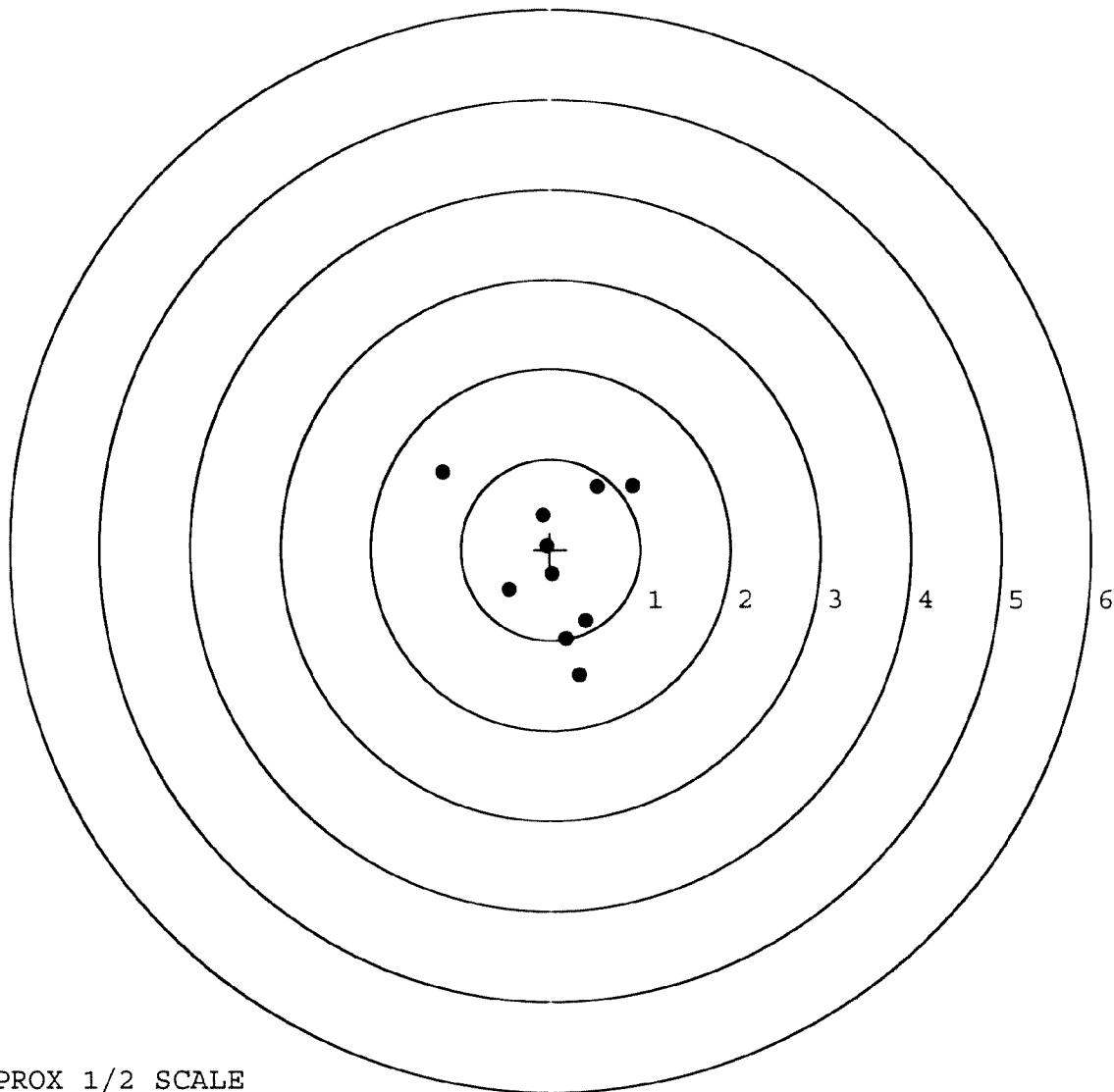


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6868449. __0
TARGET NUMBER: 5
FILE DATE: 08/20/2009
FILE TIME: 05:43

X CENTROID: 0.057
Y CENTROID: -0.121
POA TO CENTROID: 0.134
HORZ SPREAD: 2.117
VERT SPREAD: 2.239
GROUP SPREAD: 2.708
MIN RADIUS: 0.155
MAX RADIUS: 1.587
MEAN RADIUS: 0.812
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.324	-1.389
2:	0.389	-0.793
3:	0.918	0.702
4:	0.524	0.695
5:	-0.082	0.384
6:	-0.045	0.043
7:	0.023	-0.272
8:	-0.462	-0.441
9:	-1.199	0.850
10:	0.177	-0.991



TARGET APPROX 1/2 SCALE

Repair Inquiry

Repair Number: RE00125259

Serial: C6649212 Model M24 SWS Center Fire

Repairman:

Verify Repair

Status: New 2/13/2007 8:12:32 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: NATIONAL GUARD MARKSMANSHIP TNG UNIT

NATIONAL GUARD MARKSMANSHIP TNG UNIT

Address 1: BLDG 4900 CAMP J T ROBINSON

BLDG 4900 CAMP J T ROBINSON

Address 2: SSG: STEVEN STRAYHORN

PO Box:

SSG: STEVEN STRAYHORN

PO Box:

City: NORTH LITTLE ROCK

NORTH LITTLE ROCK

State: AR

Zip Code: 72199

Country: US

State: AR

Zip Code: 72199

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NA

Fax:

Email:

Comments:

Received Condition

Fair

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A057	Fit and Rear Sgt Base	2

Repair Search

Refresh

Close

naglelj

2/13/2007

8:59 AM

CAPS

NUM

INS

SERL

start

6 M...

3 M...

Par...

4-1...

HR...

Ar...

P00...

8:59 AM

C6590229 (New)

Serial Number: ~~C6649212~~

Model: M24 SWS



RE00125259

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6590229.___0
FILE DATE AND TIME: 03/02/2007 23:14

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.064
The Average Y Centroid of the Five Target Set:	0.028
The Average Point of Impact of the Five Target Set:	0.070
The Average Mean Radius of the Five Target Set:	0.579
The Distance from POA to Centroid Target #1:	0.111
The Distance from Centroid Target #2 to Centroid Target #1:	0.107
The Distance from Centroid Target #3 to Centroid Target #1:	0.093
The Distance from Centroid Target #4 to Centroid Target #1:	0.307
The Distance from Centroid Target #5 to Centroid Target #1:	0.102

SERIAL NUMBER: G6590229. __0

TARGET NUMBER: 1

FILE DATE: 03/02/2007

FILE TIME: 23:14

POINT#	X	Y
1:	-0.571	-0.046
2:	-0.655	-0.792
3:	-0.030	-0.552
4:	0.243	-0.980
5:	0.154	-0.149
6:	0.357	-0.308
7:	0.662	-0.022
8:	-0.010	0.349
9:	0.033	0.877
10:	0.619	0.857

X CENTROID: 0.080

Y CENTROID: -0.077

POA TO CENTROID: 0.111

HORZ SPREAD: 1.317

VERT SPREAD: 1.857

GROUP SPREAD: 2.084

MIN RADIUS: 0.103

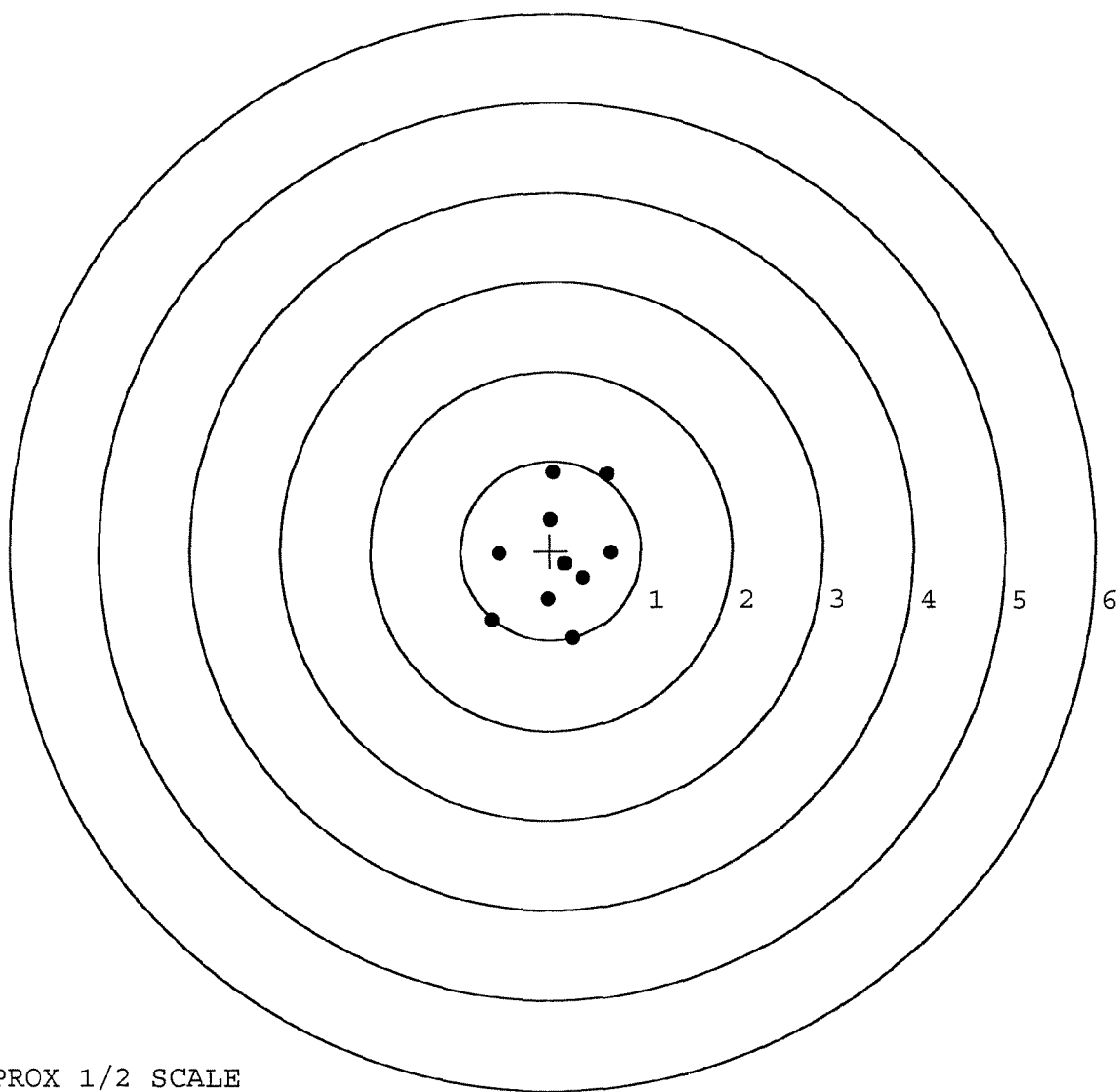
MAX RADIUS: 1.078

MEAN RADIUS: 0.660

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6590229. __ 0

TARGET NUMBER: 2

FILE DATE: 03/02/2007

FILE TIME: 23:14

POINT#	X	Y
--------	---	---

1:	-1.082	0.374
----	--------	-------

2:	-0.590	0.280
----	--------	-------

3:	-0.206	0.062
----	--------	-------

4:	0.347	0.218
----	-------	-------

5:	0.477	0.037
----	-------	-------

6:	0.720	0.046
----	-------	-------

7:	0.745	-0.402
----	-------	--------

8:	0.416	-0.516
----	-------	--------

9:	0.412	-0.265
----	-------	--------

10:	0.509	-0.097
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X CENTROID: 0.175

Y CENTROID: -0.026

POA TO CENTROID: 0.177

HORZ SPREAD: 1.827

VERT SPREAD: 0.890

GROUP SPREAD: 1.985

MIN RADIUS: 0.299

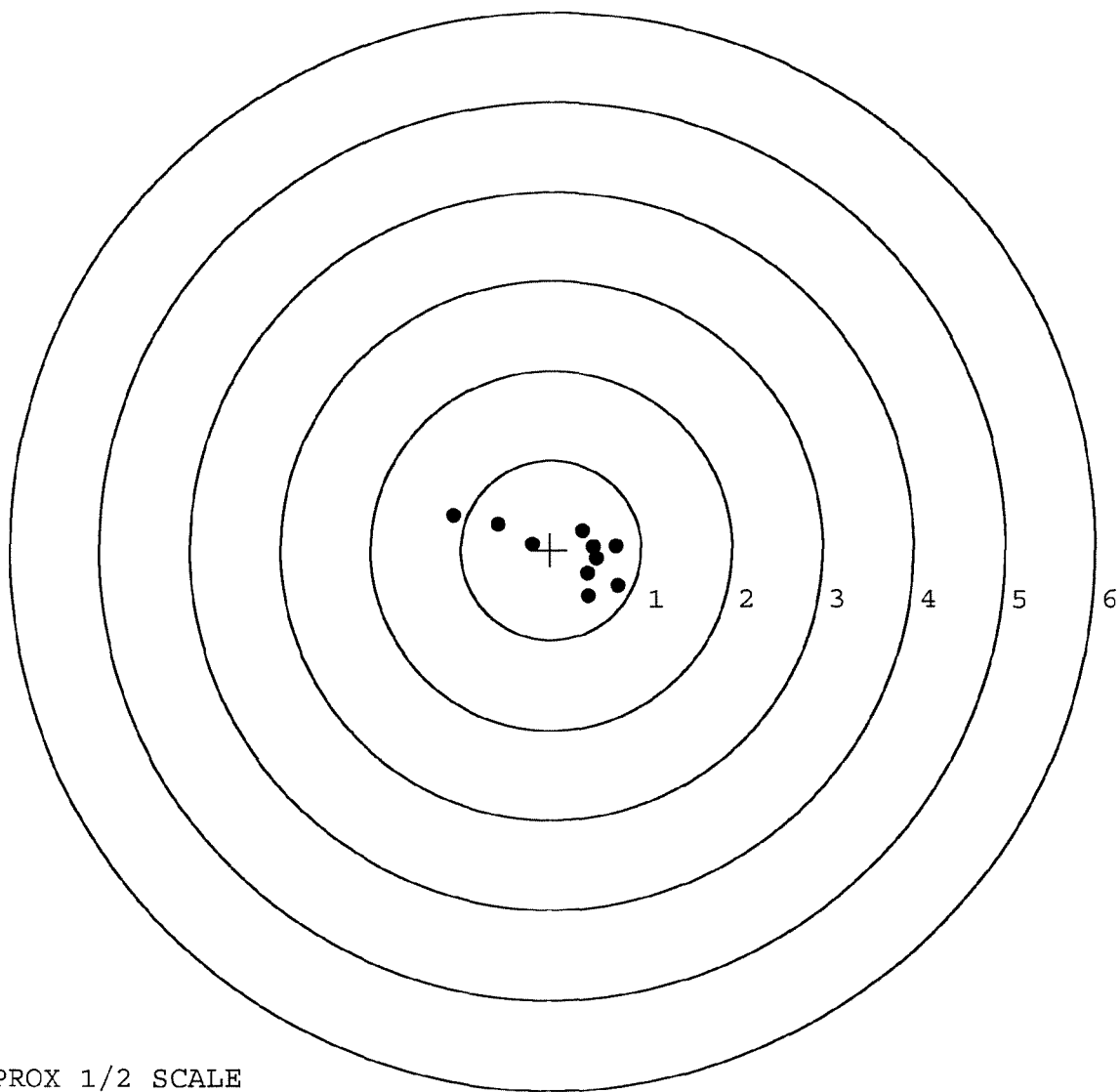
MAX RADIUS: 1.319

MEAN RADIUS: 0.560

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6590229. __0

TARGET NUMBER: 3

FILE DATE: 03/02/2007

FILE TIME: 23:14

POINT#	X	Y
--------	---	---

1:	-0.113	0.507
----	--------	-------

2:	-0.534	-0.104
----	--------	--------

3:	0.454	-0.586
----	-------	--------

4:	-0.099	-0.391
----	--------	--------

5:	-0.193	-0.003
----	--------	--------

6:	-0.044	-0.157
----	--------	--------

7:	0.174	0.029
----	-------	-------

8:	0.312	0.090
----	-------	-------

9:	0.304	0.277
----	-------	-------

10:	0.288	0.471
-----	-------	-------

X CENTROID: 0.055

Y CENTROID: 0.013

POA TO CENTROID: 0.056

HORZ SPREAD: 0.988

VERT SPREAD: 1.093

GROUP SPREAD: 1.231

MIN RADIUS: 0.120

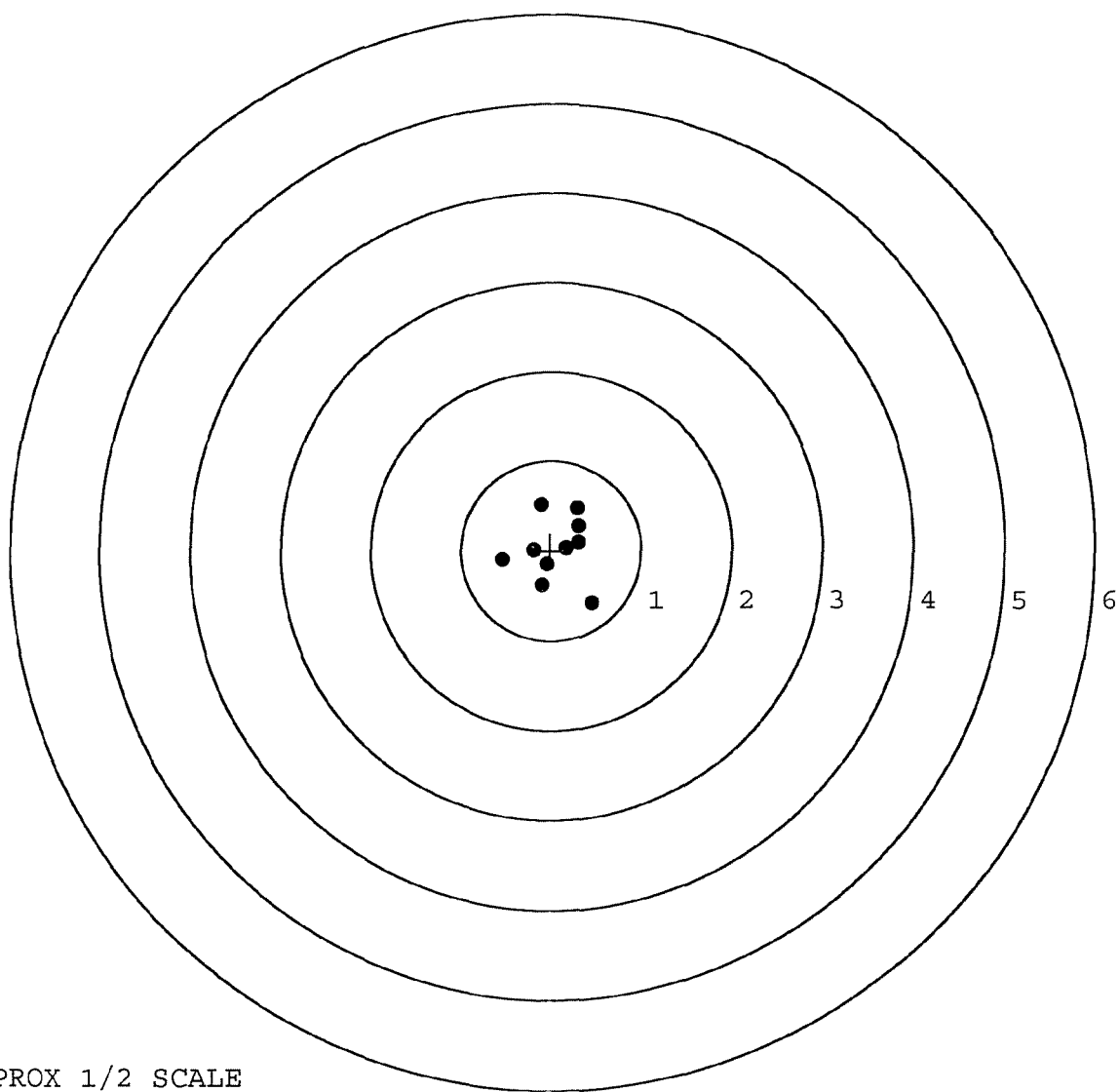
MAX RADIUS: 0.720

MEAN RADIUS: 0.398

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6590229. 0

TARGET NUMBER: 4

FILE DATE: 03/02/2007

FILE TIME: 23:14

POINT#	X	Y
1:	-1.166	0.003
2:	0.894	1.052
3:	0.931	0.137
4:	0.309	0.034
5:	0.247	-0.221
6:	-0.172	0.060
7:	-0.401	-0.008
8:	-0.281	0.174
9:	-0.347	0.323
10:	-0.456	0.492

X CENTROID: -0.044

Y CENTROID: 0.205

POA TO CENTROID: 0.209

HORZ SPREAD: 2.097

VERT SPREAD: 1.273

GROUP SPREAD: 2.312

MIN RADIUS: 0.193

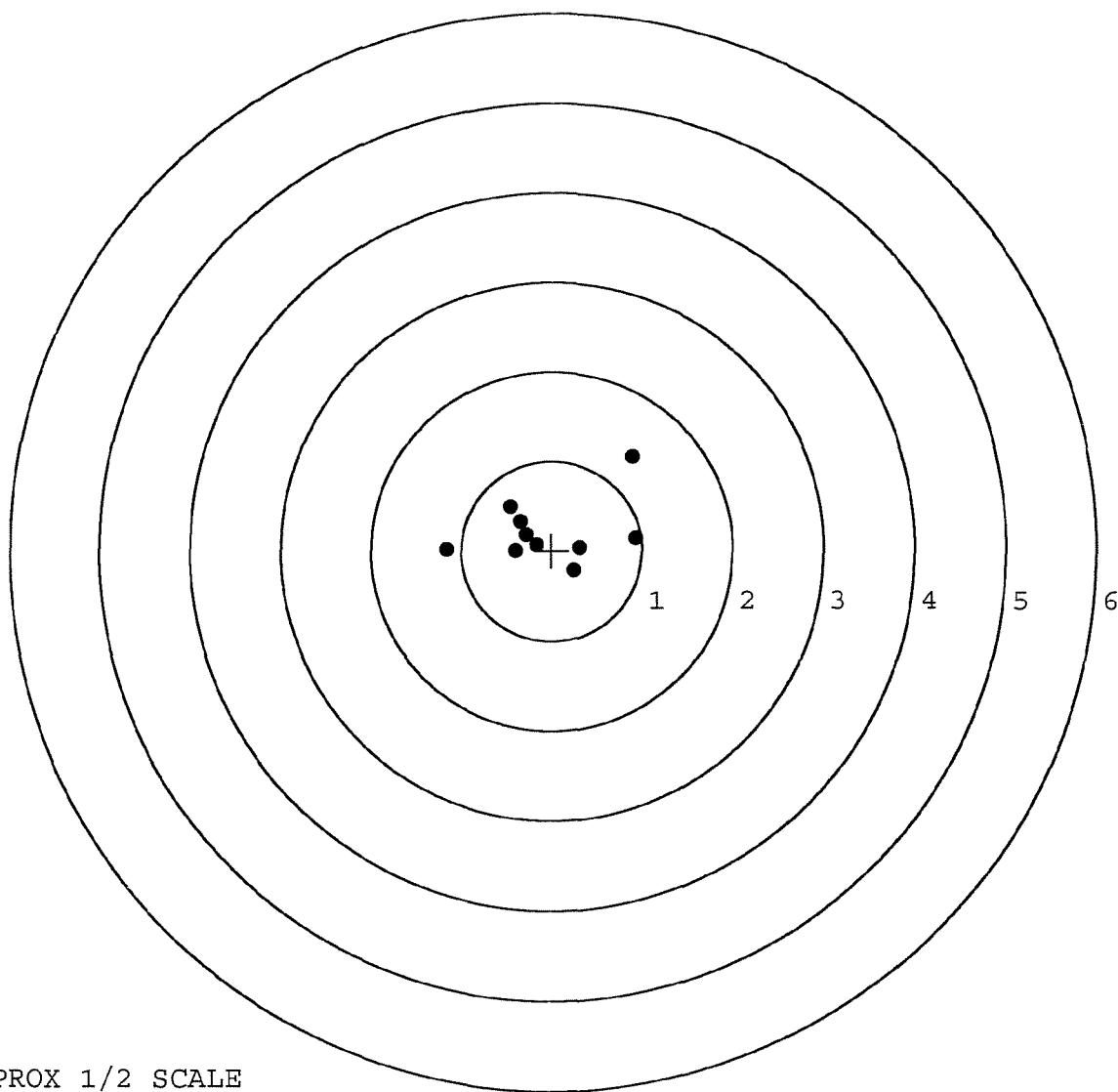
MAX RADIUS: 1.264

MEAN RADIUS: 0.596

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6590229. __ 0

TARGET NUMBER: 5

FILE DATE: 03/02/2007

FILE TIME: 23:14

POINT#	X	Y
1:	0.124	0.672
2:	0.142	0.343
3:	0.732	0.054
4:	0.801	-0.066
5:	1.084	-0.232
6:	-0.612	0.361
7:	-0.313	0.151
8:	-0.568	0.035
9:	-0.553	-0.258
10:	-0.278	-0.833

X CENTROID: 0.056

Y CENTROID: 0.023

POA TO CENTROID: 0.060

HORZ SPREAD: 1.696

VERT SPREAD: 1.505

GROUP SPREAD: 1.797

MIN RADIUS: 0.332

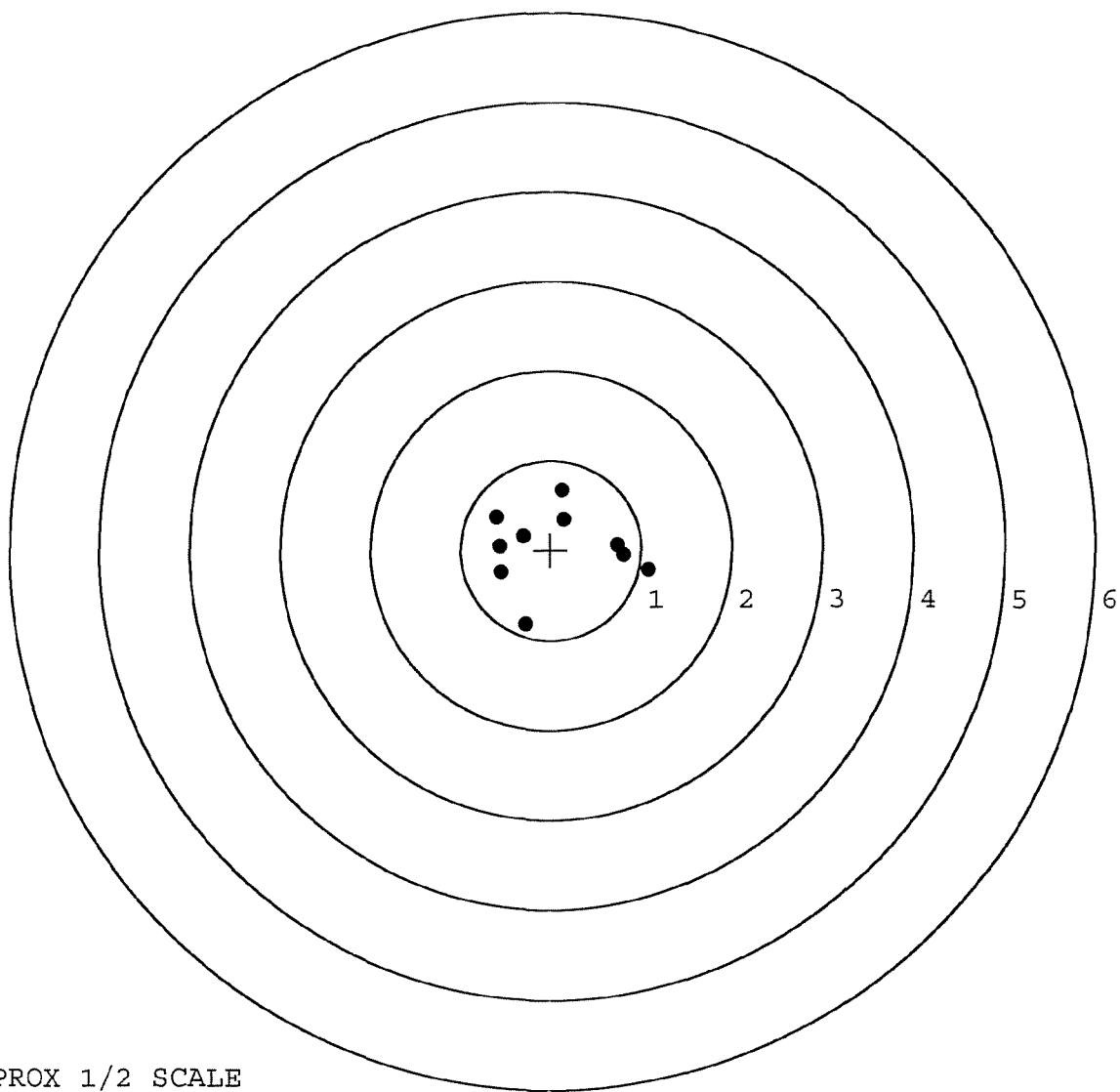
MAX RADIUS: 1.059

MEAN RADIUS: 0.682

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER	125259		
SERIAL NUMBER	G60590229		
LOG-IN DATE	2-13-07		
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	2-13-07	RJZ
505	RE-BARREL	2-16-07	LR
560	ASSEMBLE	2-16-07	TRW
600	PROOF	2-16-07	Fm
605	CHECK HEADSPACE	INSPECTED	Fm
610	DIS-ASSEMBLE GUN	FEB 20 2007	RJZ
612	MAGNAFLUX	OPERATOR APD	APD
510	DRILL AND TAP	2-19-07	TRW
615	ROLLMARK CALIBER	2-19-07	CW
618	ROTO-BLAST	2-20-07	LB
620	APPLY COATINGS	2-21-07	WJ
625	FINAL ASSEMBLY	3-2-07	RJZ
640	FUNCTION TEST AND	(PASS) FAIL	3-2-07 mon
650	TARGET	(PASS) FAIL	3-2-07 mon
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION		3/6/07 mon
	A) HEADSPACE	(PASS) FAIL	3/6/07 mon
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.53 2.57 2.64 2.64 2.69 3.607 DA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	4.0 4.0 4.0 3.607 DA
	G) SAFETY OFF FORCE	2 LBS MIN	2.0 2.0 2.0 3.607 DA
	I) FIRING PIN INDENT	.020	1020 1021 1021 3.607 DA
690	PACK		3-9-07 DA

nagletj	1/10/2003	9:36 AM	CAPS	NUM	INS	SCPL
start	2 Micros...	3 Micros...	Arms Servi...	My Beac...	My Ex-cite ...	2 54 PL...

Serial Number:

C6649212

Model: 700



RE00059322

FINAL INSPECTION CHECKLIST M-24 REPAIRS
CONTRACT #: DAAE-20-02-D-0127

SERIAL # 06049212

INSPECTED BY: RHL

DATE REC'D: 1-10-03

DATE RET'D: 1-30-03

ITEM

BARREL ASSEMBLY

☒ BARREL
☒ RECEIVER
☒ FRONT SIGHT BASE
☒ REAR SIGHT BASE
☒ SCREWS
☒ FINISH

SCOPE ASSEMBLY

☐ SCOPE
☐ SCOPE RINGS
☐ MOUNTING SCREWS
☐ MOUNTING BASE
☐ SCREWS
☐ FINISH
☐ CLARITY

ITEM

STOCK ASSEMBLY

☒ STOCK
☒ SLING AWIVEL STUDS
☒ ADJUSTABLE
☒ BUTT PLATE
☒ LOCK NUTS
☒ BARREL CLEARANCE
☒ COLOR / FINISH

SYSTEMS CASE

☐ SCOPE CASE
☐ IRON SIGHTS
☐ DEPLOYMENT KIT

TRIGGER ASSEMBLY

☒ SAFETY OPERATION
☒ RE-SET TO FACTORY SPECS

COMMENTS:

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6649212.___0
FILE DATE AND TIME: 01/29/2003 15:00

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.063
The Average Y Centroid of the Five Target Set:	-0.125
The Average Point of Impact of the Five Target Set:	0.140
The Average Mean Radius of the Five Target Set:	0.535
The Distance from POA to Centroid Target #1:	0.333
The Distance from Centroid Target #2 to Centroid Target #1:	0.312
The Distance from Centroid Target #3 to Centroid Target #1:	0.273
The Distance from Centroid Target #4 to Centroid Target #1:	0.144
The Distance from Centroid Target #5 to Centroid Target #1:	0.323

SERIAL NUMBER: C6649212. 0

TARGET NUMBER: 1

FILE DATE: 01/29/2003

FILE TIME: 15:00

X CENTROID: 0.078

Y CENTROID: -0.324

POA TO CENTROID: 0.333

HORZ SPREAD: 1.890

VERT SPREAD: 1.825

GROUP SPREAD: 2.307

MIN RADIUS: 0.420

MAX RADIUS: 1.291

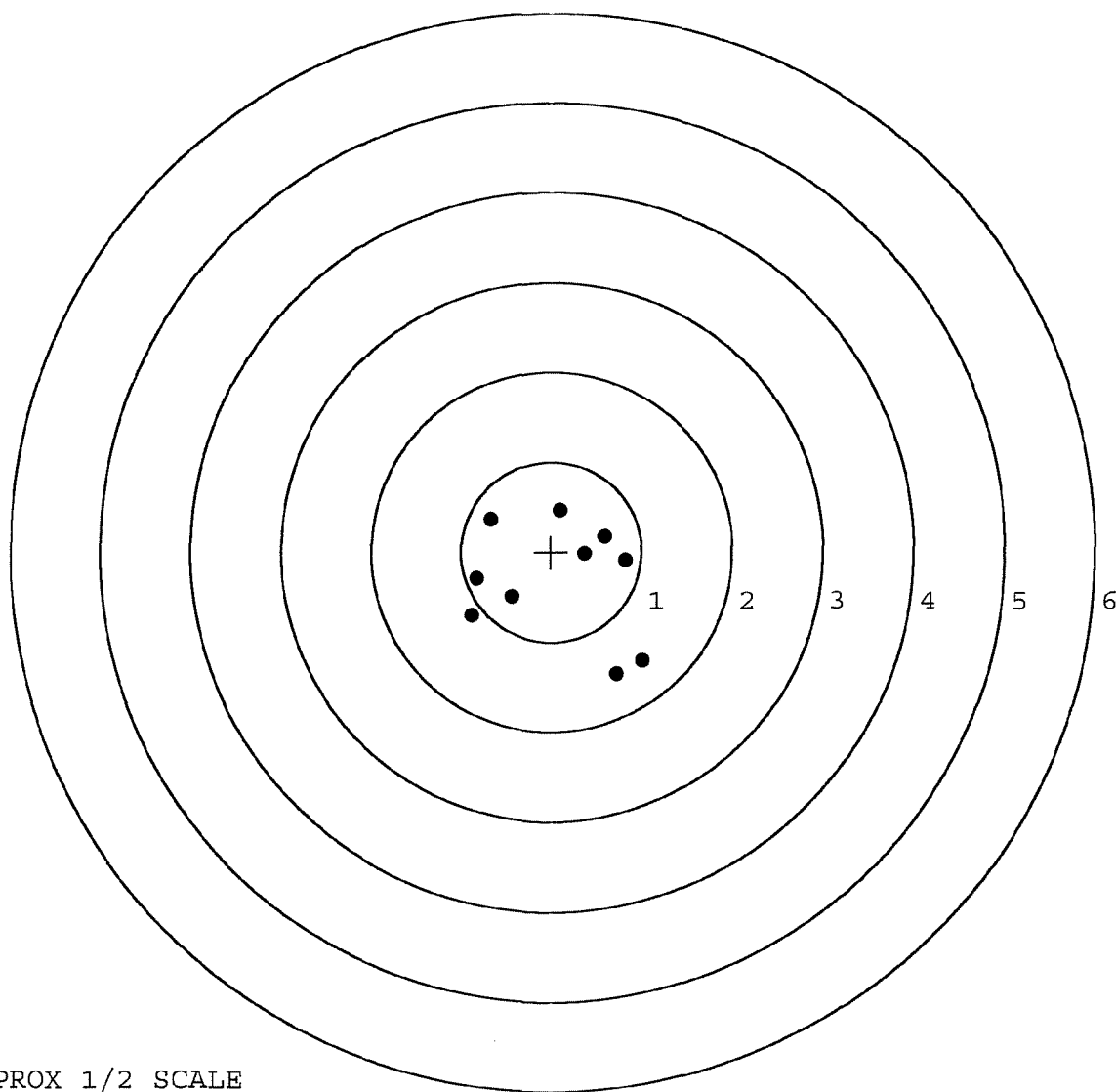
MEAN RADIUS: 0.872

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.725	-1.361
2:	1.008	-1.219
3:	0.094	0.464
4:	-0.679	0.354
5:	-0.438	-0.504
6:	-0.831	-0.304
7:	-0.882	-0.717
8:	0.821	-0.103
9:	0.589	0.173
10:	0.369	-0.022



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6649212.___0

TARGET NUMBER: 2

FILE DATE: 01/29/2003

FILE TIME: 15:00

POINT#	X	Y
1:	1.036	0.178
2:	-0.438	-0.591
3:	-0.388	-0.112
4:	-0.385	0.463
5:	-0.704	0.670
6:	-0.057	-0.367
7:	0.182	0.192
8:	0.209	-0.017
9:	0.179	-0.207
10:	0.248	-0.457

X CENTROID: -0.012

Y CENTROID: -0.025

POA TO CENTROID: 0.027

HORZ SPREAD: 1.740

VERT SPREAD: 1.261

GROUP SPREAD: 1.808

MIN RADIUS: 0.221

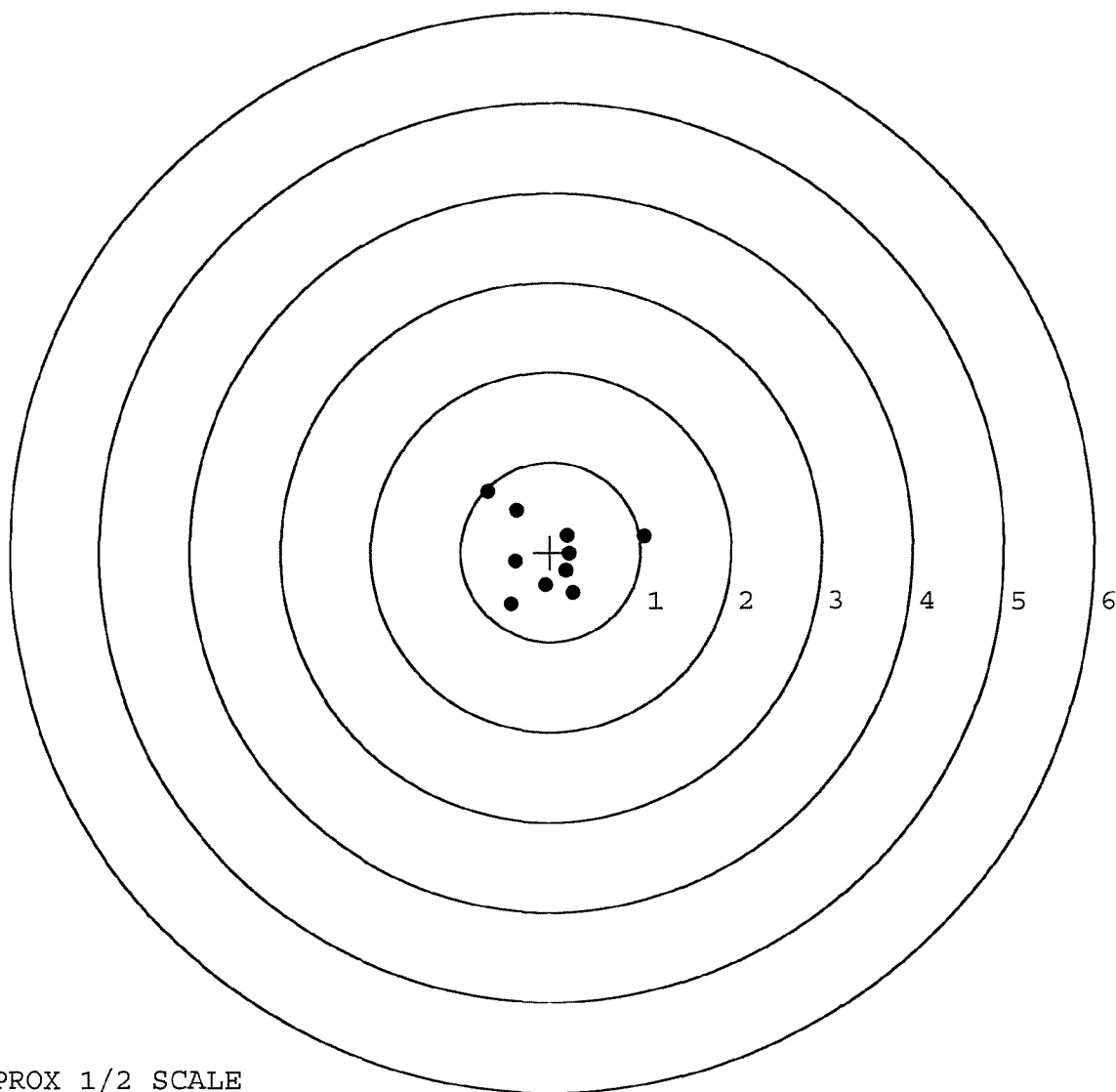
MAX RADIUS: 1.067

MEAN RADIUS: 0.538

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

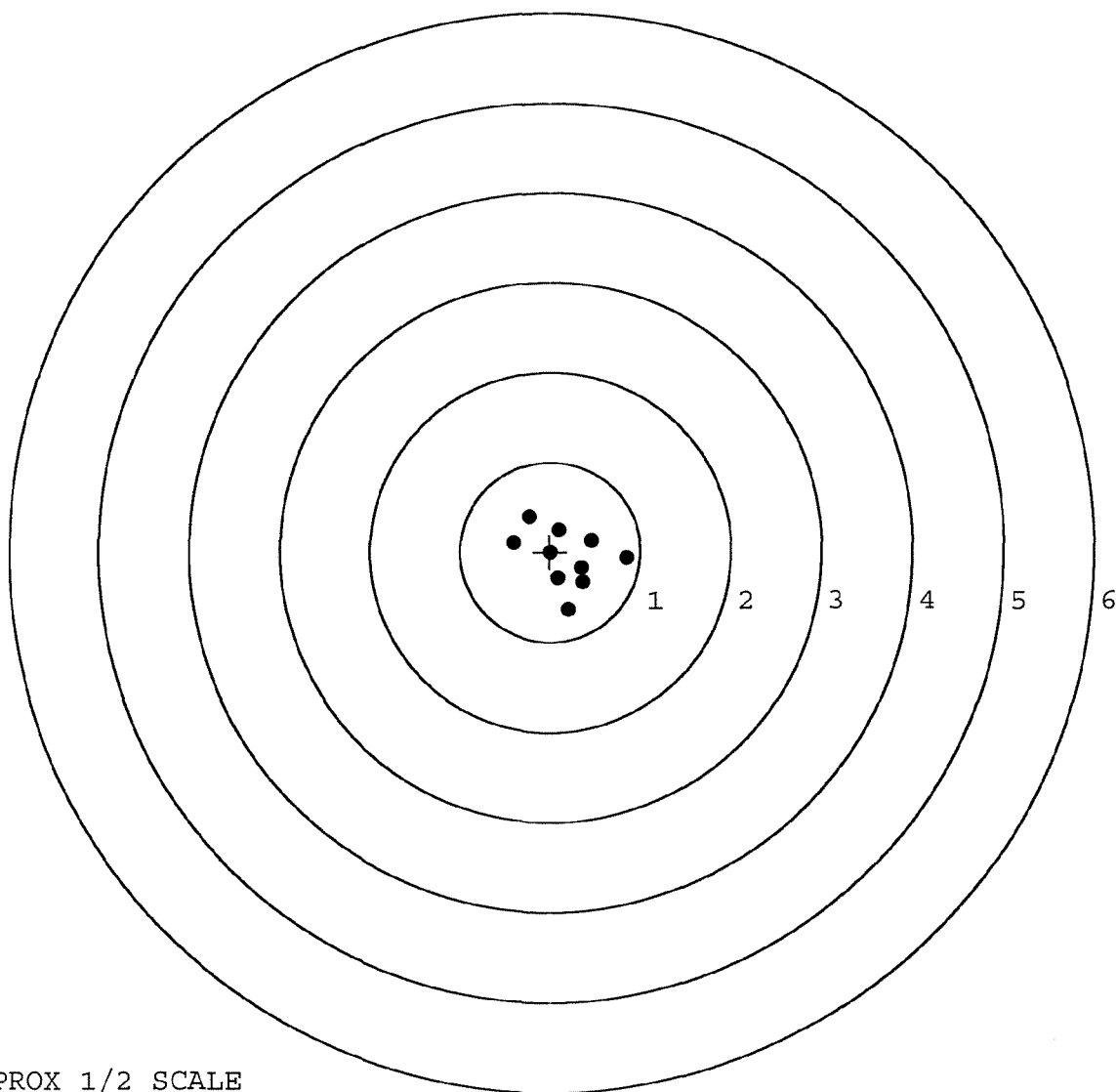


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6649212. __0
TARGET NUMBER: 3
FILE DATE: 01/29/2003
FILE TIME: 15:00

POINT#	X	Y
1:	0.853	-0.075
2:	0.454	0.123
3:	0.203	-0.650
4:	0.366	-0.342
5:	0.347	-0.186
6:	0.089	-0.295
7:	-0.401	0.099
8:	-0.235	0.388
9:	0.095	0.240
10:	0.008	-0.007

X CENTROID: 0.178
Y CENTROID: -0.070
POA TO CENTROID: 0.191
HORZ SPREAD: 1.254
VERT SPREAD: 1.038
GROUP SPREAD: 1.266
MIN RADIUS: 0.181
MAX RADIUS: 0.675
MEAN RADIUS: 0.409
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

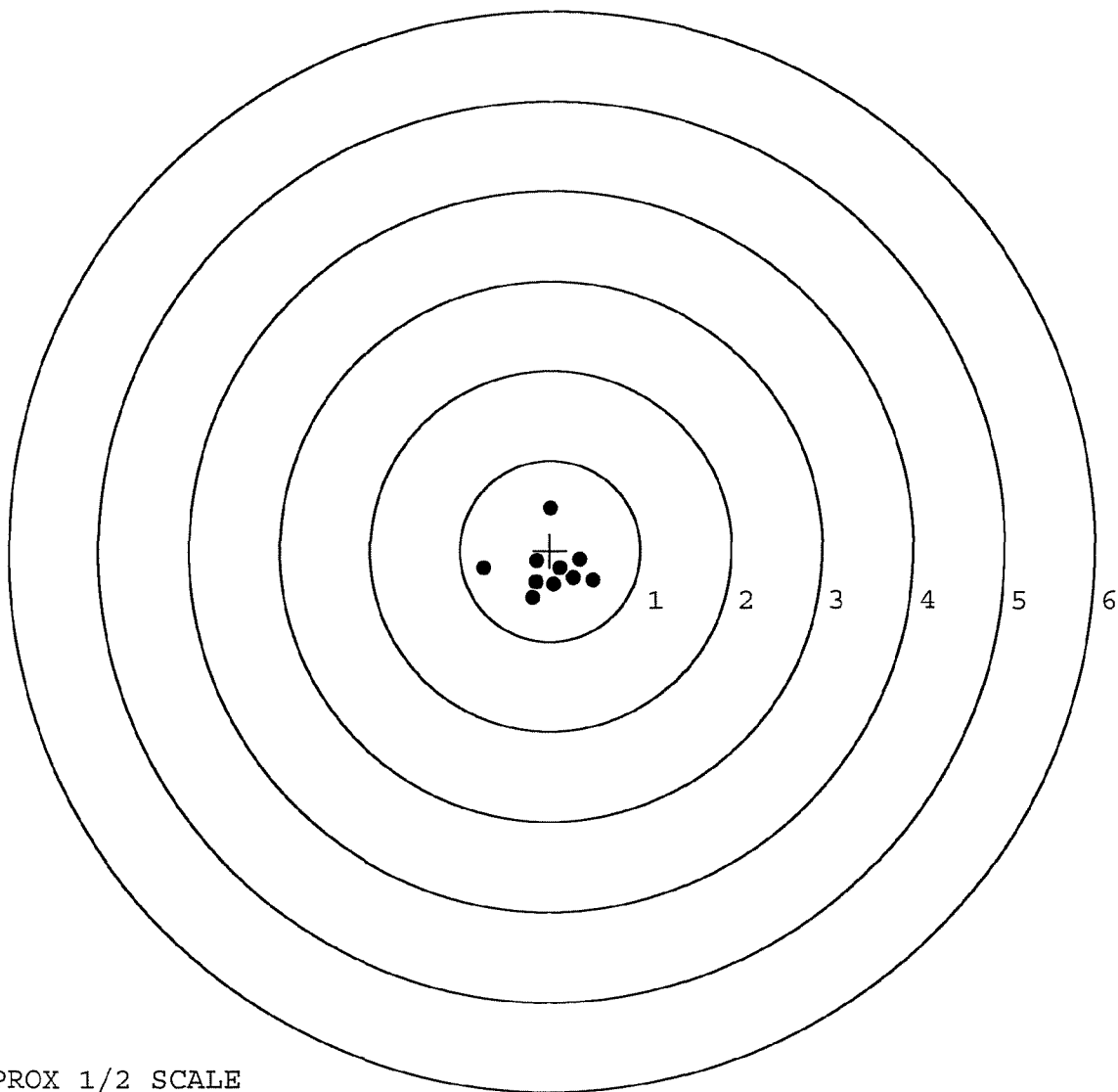


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6649212. 0
TARGET NUMBER: 4
FILE DATE: 01/29/2003
FILE TIME: 15:00

X CENTROID: -0.002
Y CENTROID: -0.204
POA TO CENTROID: 0.204
HORZ SPREAD: 1.215
VERT SPREAD: 0.994
GROUP SPREAD: 1.223
MIN RADIUS: 0.114
MAX RADIUS: 0.734
MEAN RADIUS: 0.359
IN 1 IN DIAMETER: 8
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.005	0.468
2:	-0.736	-0.194
3:	0.479	-0.332
4:	0.331	-0.101
5:	-0.153	-0.120
6:	-0.155	-0.350
7:	-0.195	-0.526
8:	0.042	-0.378
9:	0.112	-0.198
10:	0.259	-0.305

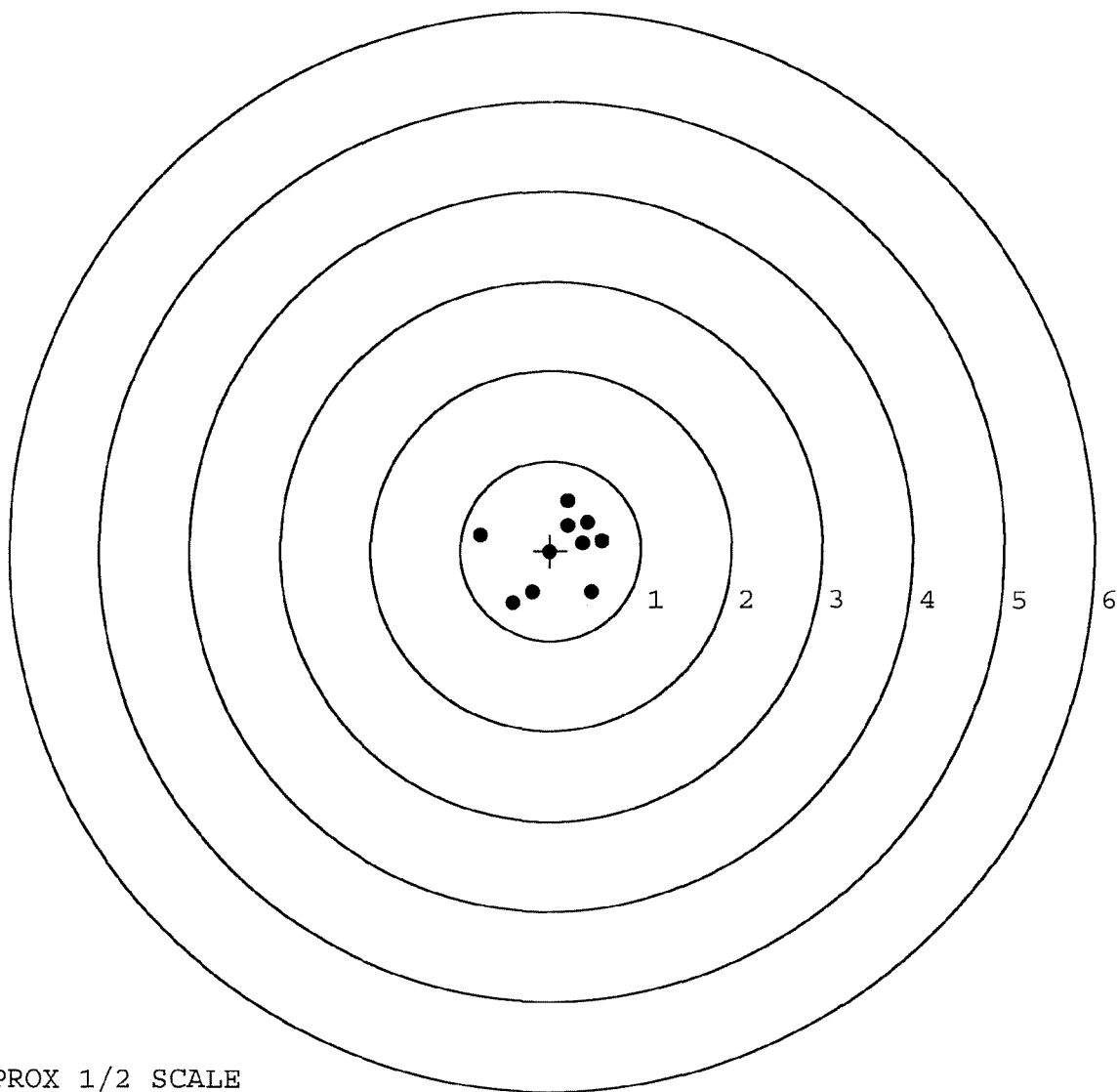


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6649212.___0
TARGET NUMBER: 5
FILE DATE: 01/29/2003
FILE TIME: 15:00

POINT#	X	Y
1:	0.454	-0.461
2:	-0.203	-0.465
3:	-0.416	-0.587
4:	-0.781	0.167
5:	0.566	0.109
6:	0.192	0.560
7:	-0.008	-0.014
8:	0.354	0.085
9:	0.193	0.282
10:	0.404	0.316

X CENTROID: 0.076
Y CENTROID: -0.001
POA TO CENTROID: 0.076
HORZ SPREAD: 1.347
VERT SPREAD: 1.147
GROUP SPREAD: 1.385
MIN RADIUS: 0.085
MAX RADIUS: 0.873
MEAN RADIUS: 0.499
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

[illegible]

NMP COPY 2

Remington



VERY IMPORTANT:
Instruction Book
enclosed to assure
safe use of this
firearm.

MODEL 700TM M24

SERIAL NO.

C6649212

ORDER NO.

5716

20

MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.



5716 C6649212

ORDER 5716

MODEL 700TM M24

UPC



0 47700 25716 7

ORDER 5716

MODEL 700TM M24

UPC



0 47700 25716 7

GFM

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6649212

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	10 1	91	RW
600	Proof	10 1	91	RW
607	Check Headspace	10 1	91	RW
610	Dis-assemble Gun	10 1	91	RW
612	Magnaflux Barrel Action		OCT 10 1991	KR
	Magnaflux Bolt		OCT 10 1991	KR
615	Rollmark Caliber		OCT 10 1991	JS
617	Drill and Tap Sight Holes		OCT 10 1991	LB
618	Polish Barrel		10/15/91	WB
620	Apply Coatings (Barrel Action)		11/29/91	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11/11/91	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/11/91	RW
	C) Inspect Ejector Hole for Chamfer		11/11/91	RW
	D) Oil Firing Pin Ass'y		11/11/91	RW
	E) Adjust Trigger Pull to Min Setting and Stake		12/27/91	WB

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	3 1/2	4	4			12-27-91	AC
	G) Safety Off Force	3	3	4			12-27-91	AC
	H) Trigger Pull Test & Retainability						12/27/91	WLB
	I) Firing Pin Indent	.021	.020	.020			12-27-91	AC
	J) Assemble Stock						12/30/91	PW
	K) Assemble Swivel Studs						1-3-92	JL
	L) Attach Front and Rear Sight Assemblies						12/30/91	PW
	M) Iron Sight Alignment						12/30/91	PW
	N) Detach Front & Rear Sights & place in numbered container						12/30/91	PW
	O) Attach Scope to Rifle						12/30/91	PW
	P) Detach & Attach Scope 20 Times						12/30/91	PW
640	Gallery Target & Test						1-2-92	DH
	A) Time						1-2-92	DH
	B) Malfunctions						1-2-92	DH
	C) Pierced Primers						1-2-92	DH
	D) Optical Clarity of Scope						1-2-92	DH
645	Inspect for Live Ammo						1-2-92	DH
655	Final Inspection							
	A) Headspace						1-3-92	JL
	B) Trigger Pull	2.57	2.56	2.62	2.60	2.67	1-2-92	AC
	C) Function						1-3-92	JL
660	Pack						2-25-92	RF

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO.

C 6649212

DATE

12/27/91

TESTER

WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.50	2.50	2.40	2.57	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.48	2.60	2.41	2.56	
PULL #3	2.51	2.55	2.38	2.62	
PULL #4	2.48	2.52	2.39	2.60	
PULL #5	2.49	2.55	2.38	2.67	
TOTAL	12.46	12.72	11.96	13.02	
AVG.	2.49	2.54	2.39	2.60	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.15	3.10		
PULL #2	3.08	3.17		
PULL #3	3.16	3.13		
PULL #4	3.11	3.15		
PULL #5	3.14	3.15		
TOTAL	15.64	15.70		
AVG.	3.13	3.14		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.08	4.10		4.03
PULL #2	4.05	4.08		4.04
PULL #3	4.05	4.11		4.06
PULL #4	4.08	4.09		4.04
PULL #5	4.06	4.05		4.00
TOTAL	20.32	20.43		20.17
AVG.	4.06	4.09		4.03

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6649212
2 Jan 1992.

CENTROIDAL DISTANCES

0 TO	1	.325358
1 TO	2	.235342
1 TO	3	.300962
1 TO	4	.450401
1 TO	5	.325738

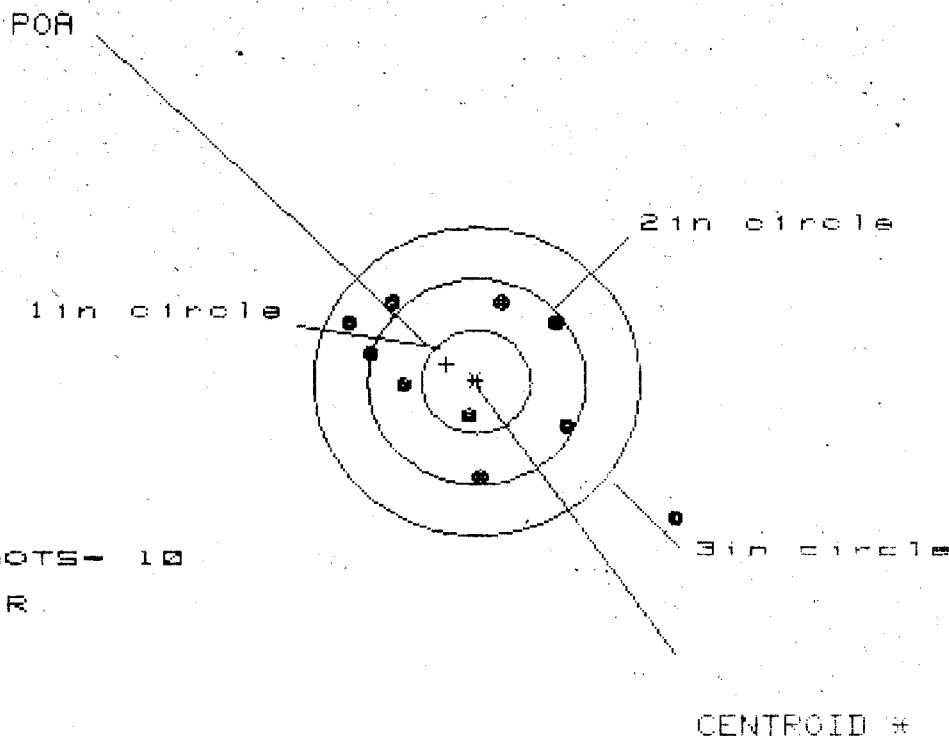
$\bar{x}_1$ <----POI

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2896
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0244
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .290625
THE AMR FOR THIS RIFLE IS: 1.084

10 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6649212

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 1

2in = 6

3in = 9

HS= 3.033

VS= 2.117

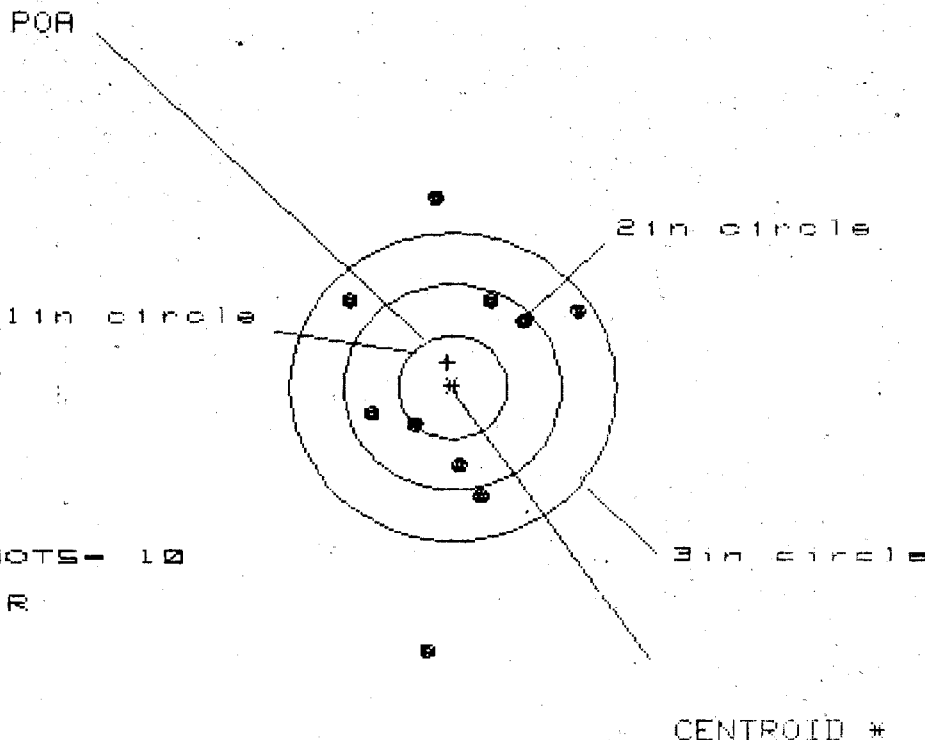
GS= 3.604

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.860	1.081	.960
MINIMUM X	:	-1.173	-.967	-.882
MAXIMUM Y	:	.784	.635	.694
MINIMUM Y	:	-1.333	-1.074	-1.015
CENTROID X	:	.273	.067	.188
CENTROID Y	:	-.177	-.028	-.087
POA TO CENTROID in.	:	.325	.073	.207
MIN RADIUS	:	.384	.524	.458
MEAN RADIUS	:	1.041	.869	.843
MAX RADIUS	:	2.288	1.213	1.079
HORIZONTAL SPREAD	:	3.033	2.048	1.842
VERTICAL SPREAD	:	2.117	1.709	1.709
EXTREME SPREAD	:	3.604	2.286	1.989
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

8 Jan 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6649212

CENTERFIRE PATTERNS # 2



OF SHOTS - 10

IN CIR

1in = 1

2in = 5

3in = 8

HS = 2.113

VS = 4.456

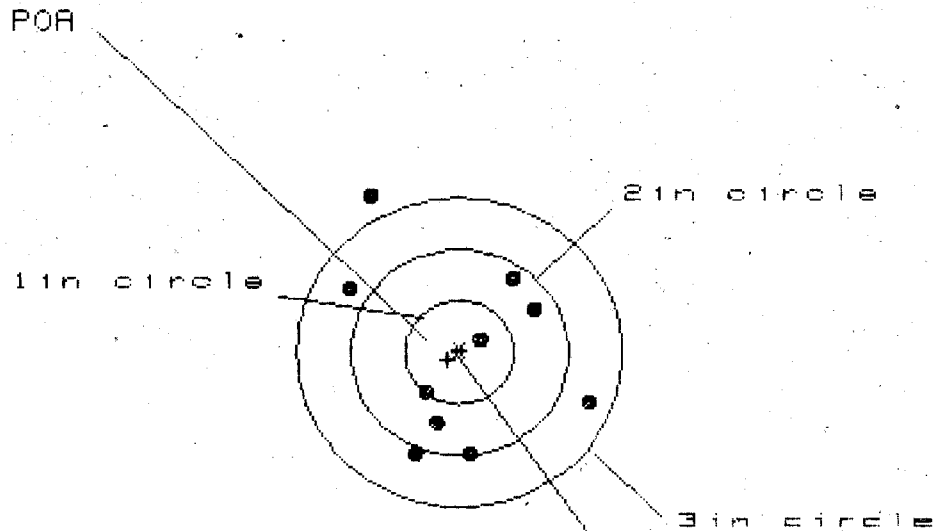
GS = 4.458

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.146	1.119	1.102
MINIMUM X	:	-.967	-.994	-1.011
MAXIMUM Y	:	1.872	1.585	.757
MINIMUM Y	:	-2.584	-1.294	-1.096
CENTROID X	:	.048	.075	.092
CENTROID Y	:	-.246	.041	-.157
POA TO CENTROID in.	:	.251	.086	.182
MIN RADIUS	:	.499	.642	.595
MEAN RADIUS	:	1.204	1.039	.950
MAX RADIUS	:	2.596	1.591	1.289
HORIZONTAL SPREAD	:	2.113	2.113	2.113
VERTICAL SPREAD	:	4.456	2.879	1.853
EXTREME SPREAD	:	4.458	2.896	2.165
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			8	

2 Jan 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6B49212

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 2

2in = 6

3in = 9

HS= 2.156

VS= 2.449

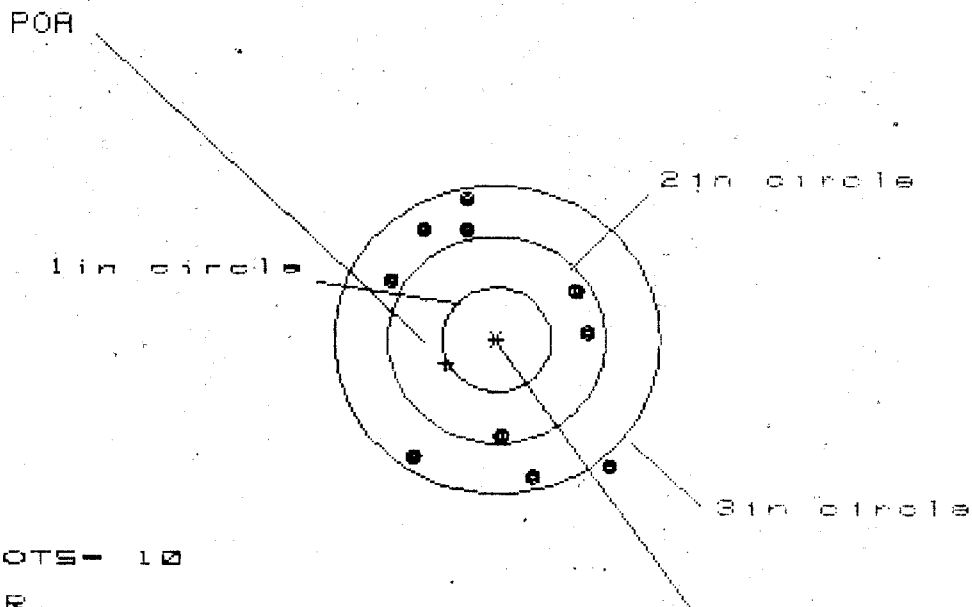
GS= 2.826

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.188	1.100	.746
MINIMUM X	:	-.968	-1.056	-.918
MAXIMUM Y	:	1.497	.867	.823
MINIMUM Y	:	-.952	-.786	-.830
CENTROID X	:	.110	.198	.060
CENTROID Y	:	.076	-.090	-.046
POA TO CENTROID in.	:	.134	.217	.076
MIN RADIUS	:	.270	.338	.350
MEAN RADIUS	:	.923	.815	.766
MAX RADIUS	:	1.692	1.344	1.209
HORIZONTAL SPREAD	:	2.156	2.156	1.664
VERTICAL SPREAD	:	2.449	1.653	1.653
EXTREME SPREAD	:	2.826	2.461	1.927
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			9	

2 Jan 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6649212

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in - 0

2 in - 3

3 in - 9

HS- 1.989

VS= 2.702

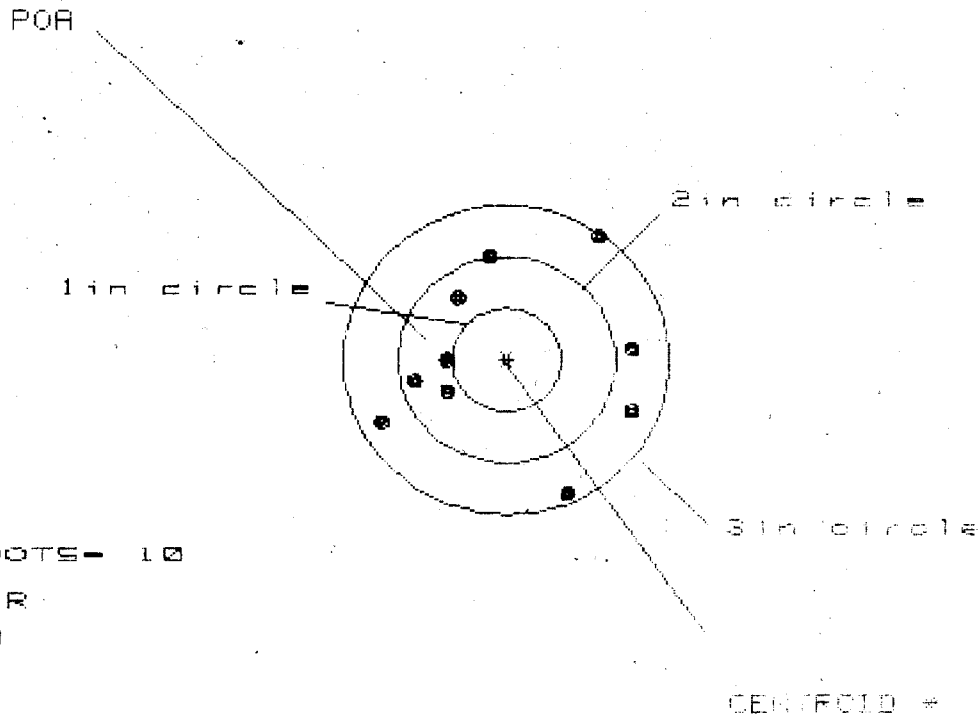
GS= 2.936

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.988	.954	.935
MINIMUM X	:	-1.001	-.892	-.911
MAXIMUM Y	:	1.409	1.271	1.136
MINIMUM Y	:	-1.293	-1.431	-1.272
CENTROID X	:	.468	.359	.378
CENTROID Y	:	.229	.367	.208
POA TO CENTROID in.	:	.521	.513	.432
MIN RADIUS	:	.847	.949	.939
MEAN RADIUS	:	1.198	1.140	1.121
MAX RADIUS	:	1.590	1.485	1.334
HORIZONTAL SPREAD	:	1.989	1.846	1.846
VERTICAL SPREAD	:	2.702	2.702	2.408
EXTREME SPREAD	:	2.936	2.758	2.514
NUMBER IN ONE INCH CIRCLE	=	0		
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=			9

1 Jan 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6849212

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 5

3 in = 9

HS= 2.263

VS= 2.592

GS= 2.733

PATTERN #	:	5	6	7
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.153	1.250	1.333
MINIMUM X	:	-1.110	-1.013	-0.930
MAXIMUM Y	:	1.251	1.118	0.968
MINIMUM Y	:	-1.341	-1.202	-0.647
CENTROID X	:	.549	.452	.369
CENTROID Y	:	-.004	-.143	.007
POA TO CENTROID in.	:	.549	.474	.369
MIN RADIUS	:	.571	.499	.391
MEAN RADIUS	:	1.054	.980	.894
MAX RADIUS	:	1.522	1.374	1.413
HORIZONTAL SPREAD	:	2.263	2.263	2.263
VERTICAL SPREAD	:	2.592	2.320	1.615
EXTREME SPREAD	:	2.733	2.433	2.382
NUMBER IN ONE INCH CIRCLE	=	0	5	9
NUMBER IN TWO INCH CIRCLE	=	5	9	9
NUMBER IN THREE INCH CIRCLE	=	9	9	9

GUN SERIAL #

C6523309

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	9 25	90	RW
600	Proof	9 25	90	RW
607	Check Headspace	9 25	90	RW
610	Dis-assemble Gun	9 25	90	RW
612	Magnaflux Barrel Action		9/26/90	KR
	Magnaflux Bolt		9/26/90	KR
615	Rollmark Caliber		9/26/90	GL
617	Drill and Tap Sight Holes		9/28/90	LB
618	Polish Barrel AB		10/1/90	WB
620	Apply Coatings (Barrel Action)		10/5/90	BA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		10/9/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		10/9/90	RW
	C) Inspect Ejector Hole for Chamfer		10/9/90	RW
	D) Oil Firing Pin Ass'y		10/9/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		10/16/90	SL

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	5 1/2	5 1/2	5 1/2	10/18/90	WLB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2	10/18/90	WLB
	H) Trigger Pull Test & Retainability				10/16/90	JH
	I) Firing Pin Indent	.0215	.021	.021	10/18/90	WLB
	J) Assemble Stock				10/22/90	RW
	K) Assemble Swivel Studs					
	L) Attach Front and Rear Sight Assemblies				10/22/90	RW
	M) Iron Sight Alignment				10/22/90	RW
	N) Detach Front & Rear Sights & place in numbered container				10/22/90	RW
	O) Attach Scope to Rifle				10/23/90	RW
	P) Detach & Attach Scope 20 Times				10/23/90	RW
640	Gallery Target & Test				10-24-90	KT
	A) Time				10-24-90	KT
	B) Malfunctions				10-24-90	KT
	C) Pierced Primers				10-24-90	KT
	D) Optical Clarity of Scope				10-24-90	KT
645	Inspect for Live Ammo				10-24-90	KT
655	Final Inspection					
	A) Headspace					
	B) Trigger Pull					
	C) Function					
660	Pack					

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# + .50#
3.00# + .75#
4.00# + 1.00#

SERIAL NO. C6523309

DATE 10/16/90

TESTER JR

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.22	2.37	2.37	2.44	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.20	2.46	2.45	2.45	
PULL #3	2.16	2.40	2.38	2.40	
PULL #4	2.30	2.42	2.43	2.49	
PULL #5	2.19	2.37	2.45	2.50	
TOTAL	11.07	12.02	12.08		
AVG.	2.214	2.404	2.416		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.23	3.50		
PULL #2	3.13	3.24		
PULL #3	3.28	3.35		
PULL #4	3.13	3.23		
PULL #5	3.19	3.26		
TOTAL	16.16	16.58		
AVG.	3.232	3.316		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.17	4.40		4.41
PULL #2	4.28	4.38		4.16
PULL #3	4.32	4.34		4.39
PULL #4	4.39	4.40		4.37
PULL #5	4.36	4.41		4.34
TOTAL	21.52	21.93		21.67
AVG.	4.304	4.386		4.334

SWS ENDURANCE TEST REPORT

SERIAL NO. C6523309 SHOOTER RO DATE 10-31-90

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
		<u>240</u>		
	7.62	30	OK	NONE 11-1-90 RG
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	20	"	"
		<u>440</u>		
	7.62	60	test and target	OK 11-1-90 A.C.
	total	500		

SWS ENDURANCE TEST REPORT

SERIAL NO. C6523309 SHOOTER RC DATE 11-1-90

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	TOTAL	740		
	"	30	"	" 11-2-90
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	TOTAL	1160		

SWS ENDURANCE TEST REPORT

SERIAL NO. C6523309 SHOOTER RA DATE 11-2-90

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	TOTAL	1280		11-5-90
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	TOTAL	1700		11-6-90
	"	30	"	"
	"	30	"	"

SWS ENDURANCE TEST REPORT

SERIAL NO. 2652 3309 SHOOTER RO DATE 11-7-90

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	TOTAL	2500		
	"	30	"	" 11-8-90
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	TOTAL	2950		
	"	30	"	" 11-9-90
	"	30	"	"
	"	30	"	"

SWS ENDURANCE TEST REPORT

SERIAL NO. C-652339 SHOOTER E. A. * R O DATE _____

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
240	"	30	"	"
	"	30	"	"
	"	30	"	"
		300		
		TOTAL 3790		
	"	30	"	" 11-13-90
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"

SWS ENDURANCE TEST REPORT

SERIAL NO. 6652 3309 SHOOTER RD DATE 11-13-90

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	TOTAL 4270			
	"	30	"	" 11-14-90
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	20		"
	TOTAL 4500			
		60	TARGET + TEST	11-14-90
	TOTAL 4560			
	"	30	"	" 11-15-90
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"

SWS ENDURANCE TEST REPORT

SERIAL NO. C6523309 SHOOTER RA DATE 11-15-90

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	20	"	"
	TOTAL	4940		
	TOTAL	5000	"	" 11-16-90
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	44
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	TOTAL	5660		
	"	60	"	" 11-26-90
	"	60	"	"

SWS ENDURANCE TEST REPORT

SERIAL NO. C6523309 SHOOTER RA DATE 11/29/90

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	60	OK	None
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	60	"	"
	"	40	"	"
	TOTAL	8000		11 11/30/90
	"	60	"	" 12/3/90
	"	60	"	"
	"	60	"	"
		8180		

ORIGINAL

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523309
25 Oct 1990

CENTROIDAL DISTANCES

0 TO	1	.298739
1 TO	2	.127122
1 TO	3	.158152
1 TO	4	.104637
1 TO	5	.279029

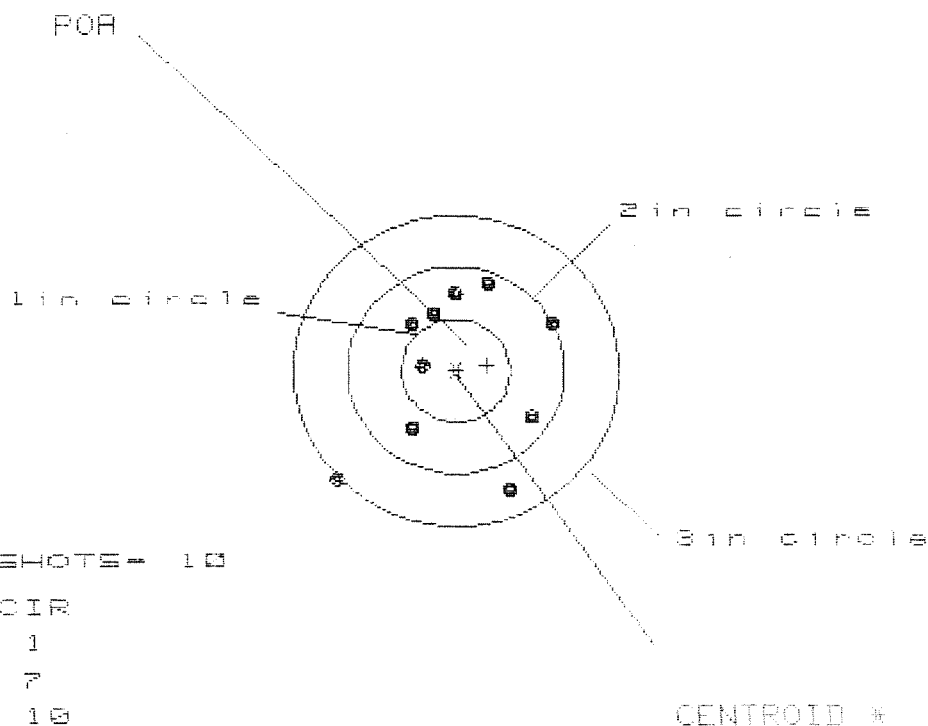
• <----POB

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1754
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0092
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .175641
THE AMR FOR THIS RIFLE IS: .8172

25 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 7

3 in = 10

HSI = 1.848

VS = 1.852

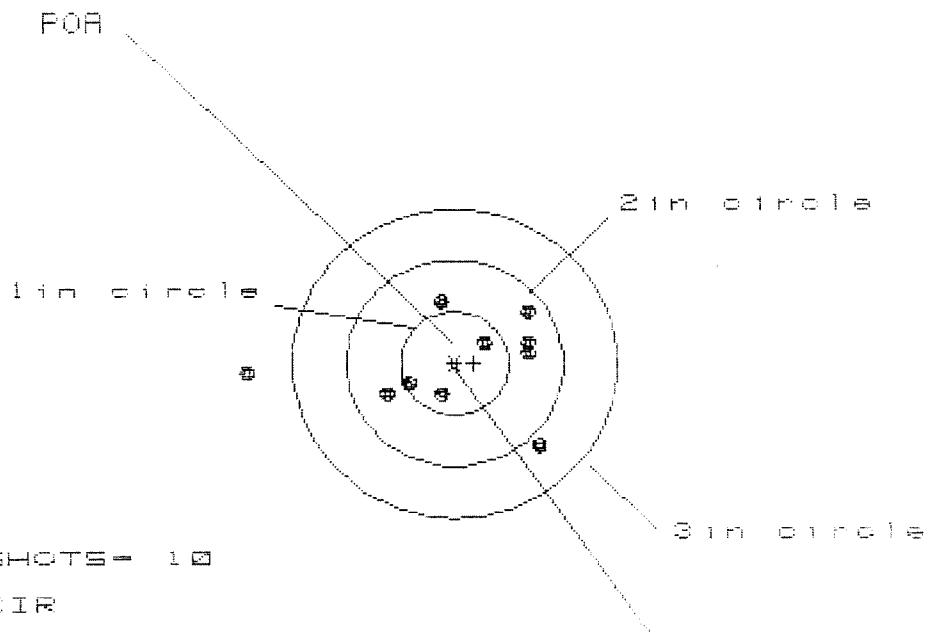
GS = 2.479

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.870	.750	.799
MINIMUM X	-1.078	-.549	-.500
MAXIMUM Y	.839	.724	.570
MINIMUM Y	-1.113	-1.228	-.770
CENTROID X	-.294	-.174	-.223
CENTROID Y	-.053	.062	.216
POR TO CENTROID in.	.299	.185	.310
MIN RADIUS	.302	.430	.366
MEAN RADIUS	.830	.744	.637
MAX RADIUS	1.495	1.290	.962
HORIZONTAL SPREAD	1.948	1.299	1.299
VERTICAL SPREAD	1.952	1.952	1.340
EXTREME SPREAD	2.479	1.966	1.590
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

25 Oct 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309

CENTERFIRE PATTERNS # 2



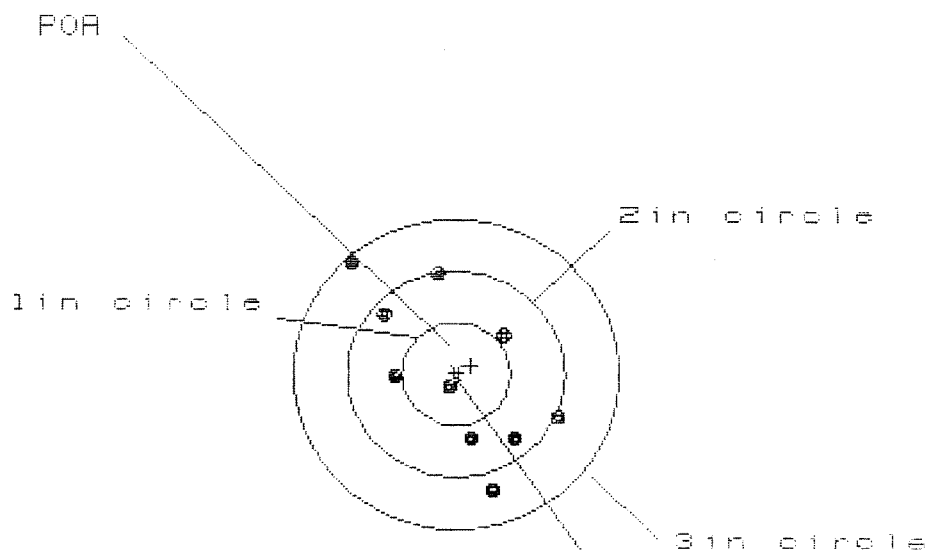
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.813	.663	.583
MINIMUM X	:	-1.888	-.838	-.763
MAXIMUM Y	:	.636	.626	.530
MINIMUM Y	:	-.759	-.769	-.396
CENTROID X	:	-.178	.032	-.043
CENTROID Y	:	-.001	.009	.105
POA TO CENTROID in.	:	.178	.033	.114
MIN RADIUS	:	.306	.229	.168
MEAN RADIUS	:	.773	.621	.565
MAX RADIUS	:	1.890	.977	.846
HORIZONTAL SPREAD	:	2.701	1.441	1.346
VERTICAL SPREAD	:	1.395	1.395	.926
EXTREME SPREAD	:	2.782	1.670	1.534
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

25 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C65233B3

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 8

3in = 10

HS= 1.807

VS= 2.255

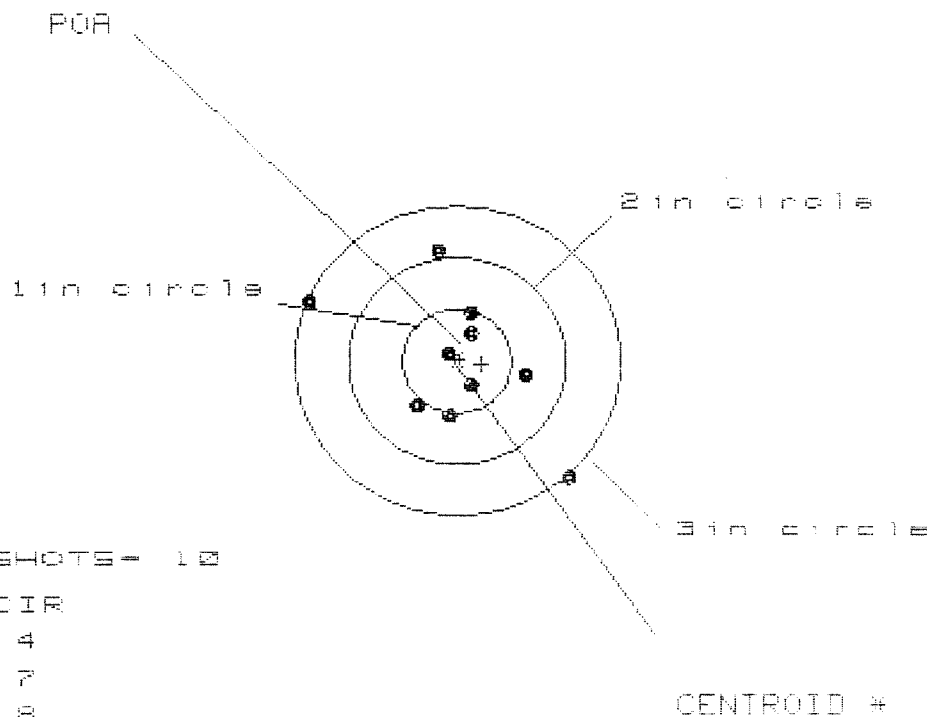
GS= 2.557

PATTERN #	3		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.893	.791	.815
MINIMUM X	-.914	-.790	-.766
MAXIMUM Y	1.128	1.062	.937
MINIMUM Y	-1.127	-1.002	-.652
CENTROID X	-.138	-.036	-.060
CENTROID Y	-.079	-.204	-.079
POA TO CENTROID in.	.159	.208	.099
MIN RADIUS	.141	.177	.194
MEAN RADIUS	.818	.735	.698
MAX RADIUS	1.452	1.088	.961
HORIZONTAL SPREAD	1.807	1.581	1.581
VERTICAL SPREAD	2.255	2.064	1.589
EXTREME SPREAD	2.557	2.108	1.839
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	8		
NUMBER IN THREE INCH CIRCLE =	10		

25 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C65233B9

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1in = 4

2in = 7

3in = 8

HS = 2.488

VS = 2.226

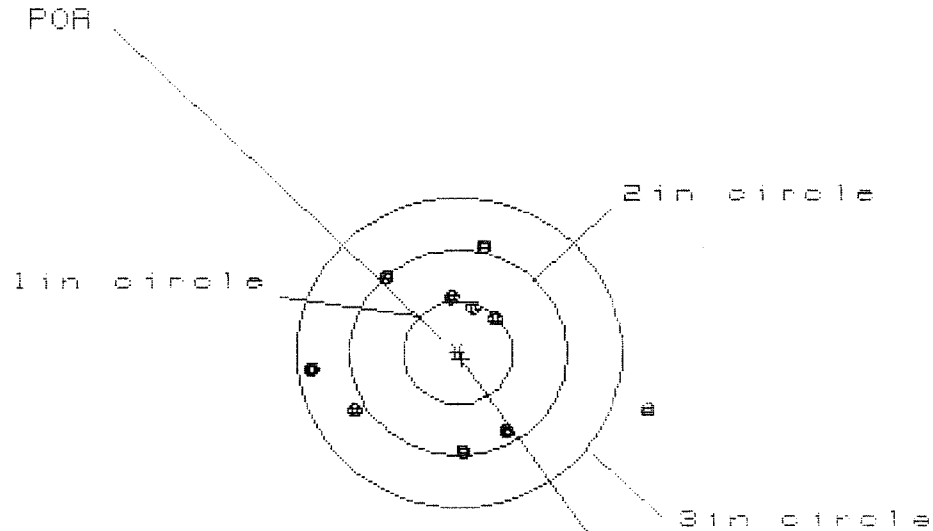
GS = 2.988

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.062	.733	.570
MINIMUM X	:	-1.418	-1.300	-.390
MAXIMUM Y	:	1.109	.985	1.038
MINIMUM Y	:	-1.117	-.688	-.635
CENTROID X	:	-.229	-.347	-.184
CENTROID Y	:	.029	.153	.100
POA TO CENTROID in.	:	.231	.379	.210
MIN RADIUS	:	.129	.046	.126
MEAN RADIUS	:	.783	.615	.491
MAX RADIUS	:	1.541	1.368	1.054
HORIZONTAL SPREAD	:	2.488	2.033	.960
VERTICAL SPREAD	:	2.226	1.673	1.673
EXTREME SPREAD	:	2.988	2.149	1.676
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		8	

25 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 2

2in = 6

3in = 8

HS= 3.178

VS= 1.909

GS= 3.198

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.769	.599	.447
MINIMUM X	-1.409	-1.212	-.984
MAXIMUM Y	.993	.934	.984
MINIMUM Y	-.916	-.975	-1.085
CENTROID X	-.038	-.235	-.083
CENTROID Y	.058	.117	.147
POA TO CENTROID in.	.070	.263	.169
MIN RADIUS	.462	.503	.405
MEAN RADIUS	.962	.857	.778
MAX RADIUS	1.848	1.235	1.105
HORIZONTAL SPREAD	3.178	1.811	1.351
VERTICAL SPREAD	1.909	1.909	1.909
EXTREME SPREAD	3.198	2.004	1.932
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		9	

500 Rds

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523309
1 Nov 1990

CENTROIDAL DISTANCES

0 TO	1	.170182
1 TO	2	.191943
1 TO	3	.311617
1 TO	4	.291208
1 TO	5	.131795

43 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .069
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .032
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0768592
THE AMR FOR THIS RIFLE IS: .6688

1 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C65233B9.1

CENTERFIRE PATTERNS # 1

FOR

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 5

2in = 9

3in = 10

HS= .953

VS= 2.242

ES= 2.256

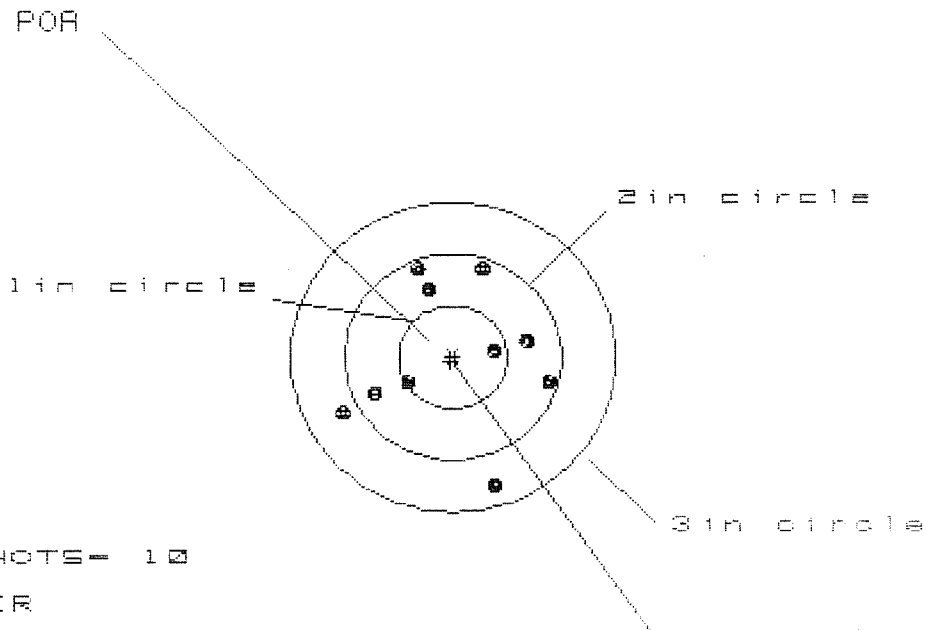
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.460	.472	.457
MINIMUM X	-.493	-.481	-.496
MAXIMUM Y	1.260	.812	.707
MINIMUM Y	-.982	-.842	-.437
CENTROID X	.111	.099	.114
CENTROID Y	-.129	-.269	-.164
FOR TO CENTROID in.	.170	.286	.199
MIN RADIUS	.203	.233	.196
MEAN RADIUS	.596	.513	.461
MAX RADIUS	1.265	.851	.727
HORIZONTAL SPREAD	.953	.953	.953
VERTICAL SPREAD	2.242	1.654	1.144
EXTREME SPREAD	2.256	1.654	1.304
NUMBER IN ONE INCH CIRCLE =	5		
NUMBER IN TWO INCH CIRCLE =	9		
NUMBER IN THREE INCH CIRCLE =	10		

1 Nov 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309.1

CENTERFIRE PATTERNS # 2



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 8

3 in = 10

HS = 1.908

VS = 2.150

GS = 2.220

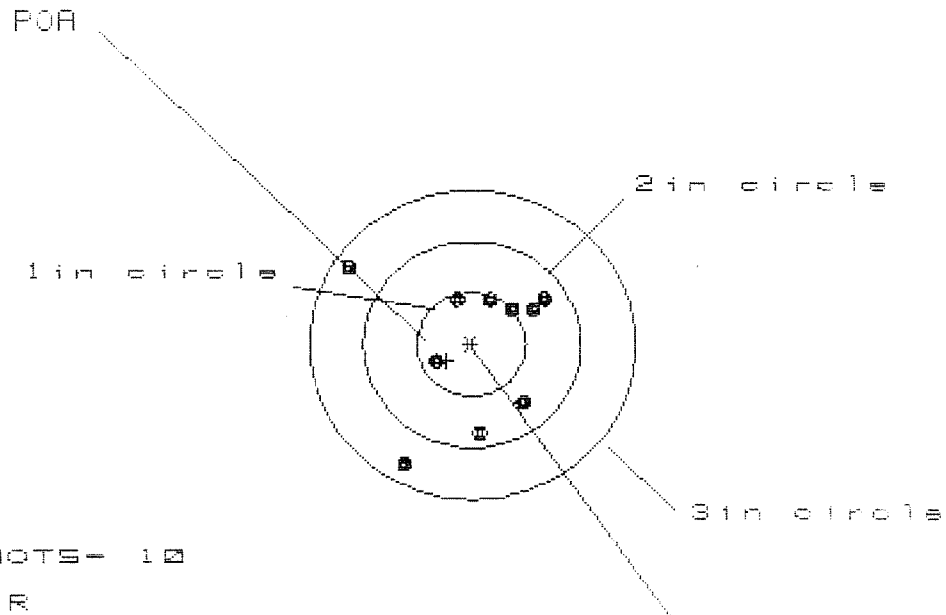
CENTROID #

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.916	.961	.843
MINIMUM X	-.992	-.947	-.745
MAXIMUM Y	.893	.754	.671
MINIMUM Y	-1.257	-.657	-.600
CENTROID X	.020	-.025	.093
CENTROID Y	.040	.179	.262
POA TO CENTROID in.	.045	.181	.278
MIN RADIUS	.357	.401	.316
MEAN RADIUS	.819	.749	.679
MAX RADIUS	1.320	1.153	.957
HORIZONTAL SPREAD	1.908	1.908	1.588
VERTICAL SPREAD	2.150	1.411	1.271
EXTREME SPREAD	2.220	1.934	1.624
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	8		
NUMBER IN THREE INCH CIRCLE =	10		

1 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523309.1

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 8

3 in = 10

HS= 1.750

VS= 1.920

GS= 2.054

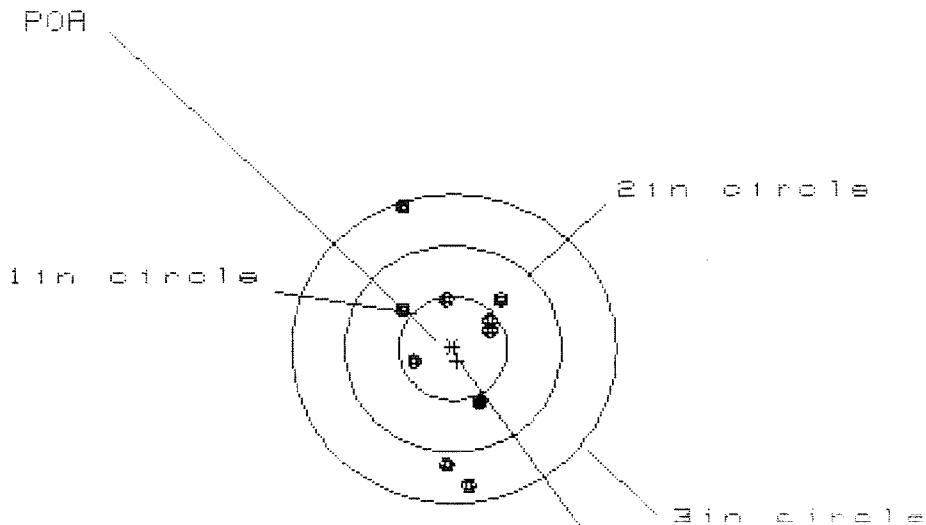
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.627	.502	.404
MINIMUM X	:	-1.123	-.785	-.587
MAXIMUM Y	:	.755	.538	.403
MINIMUM Y	:	-1.165	-1.081	-.941
CENTROID X	:	.230	.355	.453
CENTROID Y	:	.159	.075	.210
POA TO CENTROID in.	:	.279	.362	.499
MIN RADIUS	:	.393	.477	.310
MEAN RADIUS	:	.753	.678	.552
MAX RADIUS	:	1.353	1.336	.952
HORIZONTAL SPREAD	:	1.750	1.287	.991
VERTICAL SPREAD	:	1.920	1.619	1.344
EXTREME SPREAD	:	2.054	2.054	1.435
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

1 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523389.1

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1in = 3

2in = 7

3in = 10

HS = .969

VS = 2.664

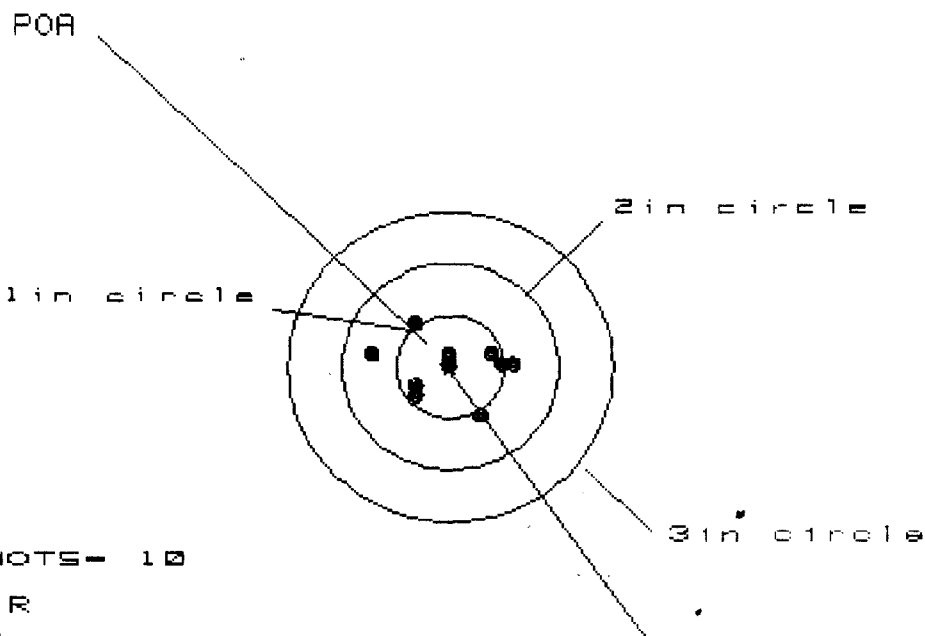
GS = 2.729

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.466	.415	.426
MINIMUM X	:	-.504	-.554	-.543
MAXIMUM Y	:	1.338	.656	.508
MINIMUM Y	:	-1.326	-1.177	-1.144
CENTROID X	:	-.040	.011	-.000
CENTROID Y	:	.120	-.029	.119
POA TO CENTROID in.	:	.126	.031	.119
MIN RADIUS	:	.415	.424	.382
MEAN RADIUS	:	.754	.688	.596
MAX RADIUS	:	1.413	1.181	1.149
HORIZONTAL SPREAD	:	.969	.969	.969
VERTICAL SPREAD	:	2.664	1.833	1.652
EXTREME SPREAD	:	2.729	1.848	1.694
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

1 Nov 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309.1

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in - 6

2 in - 10

3 in - 10

HS- 1.344

VS= .910

GS= 1.346

CENTROID #

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.615	.534	.431
MINIMUM X	:	-.729	-.395	-.328
MAXIMUM Y	:	.440	.451	.456
MINIMUM Y	:	-.470	-.459	-.454
CENTROID X	:	.024	.105	.038
CENTROID Y	:	-.030	-.041	-.046
POA TO CENTROID in.	:	.039	.112	.060
MIN RADIUS	:	.041	.119	.062
MEAN RADIUS	:	.422	.391	.362
MAX RADIUS	:	.735	.593	.556
HORIZONTAL SPREAD	:	1.344	.929	.759
VERTICAL SPREAD	:	.910	.910	.910
EXTREME SPREAD	:	1.346	1.102	1.102
NUMBER IN ONE INCH CIRCLE	=		6	
NUMBER IN TWO INCH CIRCLE	=		10	
NUMBER IN THREE INCH CIRCLE	=		10	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06523309
14 Nov 1990

4500 ROUNDS

CENTROIDAL DISTANCES

0 TO	1	.277627
1 TO	2	.307002
1 TO	3	.166712
1 TO	4	.304401
1 TO	5	.272342

$\frac{1}{45}$ <----POA

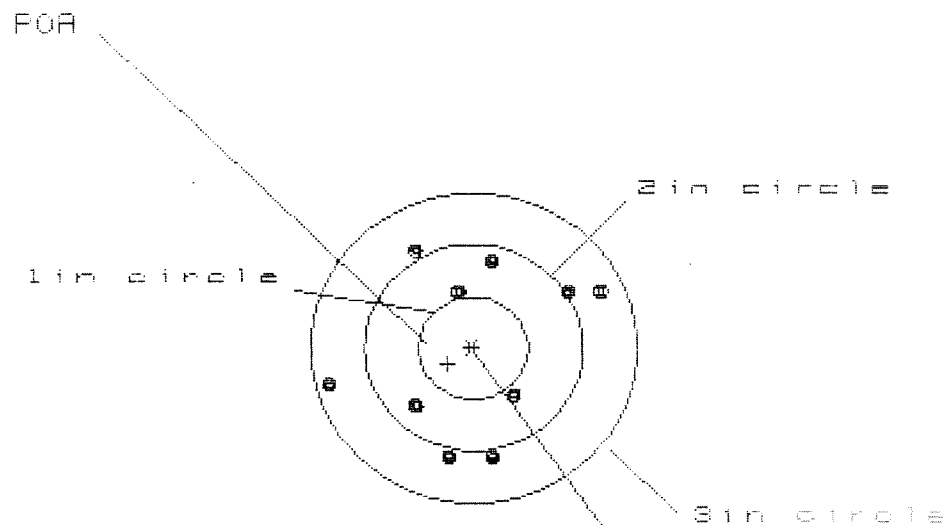
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0896
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .086
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .124194

THE AMR FOR THIS RIFLE IS: .7572

14 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06523309.1.1

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 4

3 in = 10

HS= 2.540

VS= 2.030

GS= 2.713

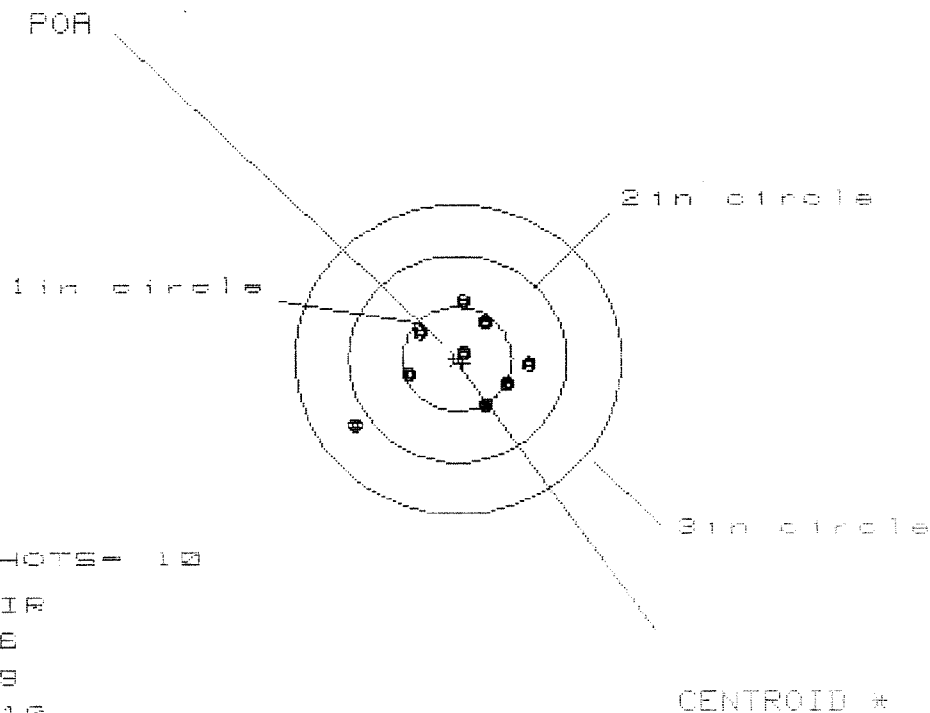
CENTROID #

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.179	1.027	.851
MINIMUM X	:	-1.369	-.688	-.360
MAXIMUM Y	:	.969	.929	.995
MINIMUM Y	:	-1.061	-1.101	-1.035
CENTROID X	:	.231	.383	.255
CENTROID Y	:	.154	.194	.128
FOA TO CENTROID in.	:	.277	.429	.285
MIN RADIUS	:	.547	.499	.512
MEAN RADIUS	:	.968	.908	.869
MAX RADIUS	:	1.416	1.156	1.142
HORIZONTAL SPREAD	:	2.548	1.715	1.411
VERTICAL SPREAD	:	2.030	2.030	2.030
EXTREME SPREAD	:	2.713	2.136	2.122
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		10	

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309.1.1

CENTERFIRE PATTERNS # 2

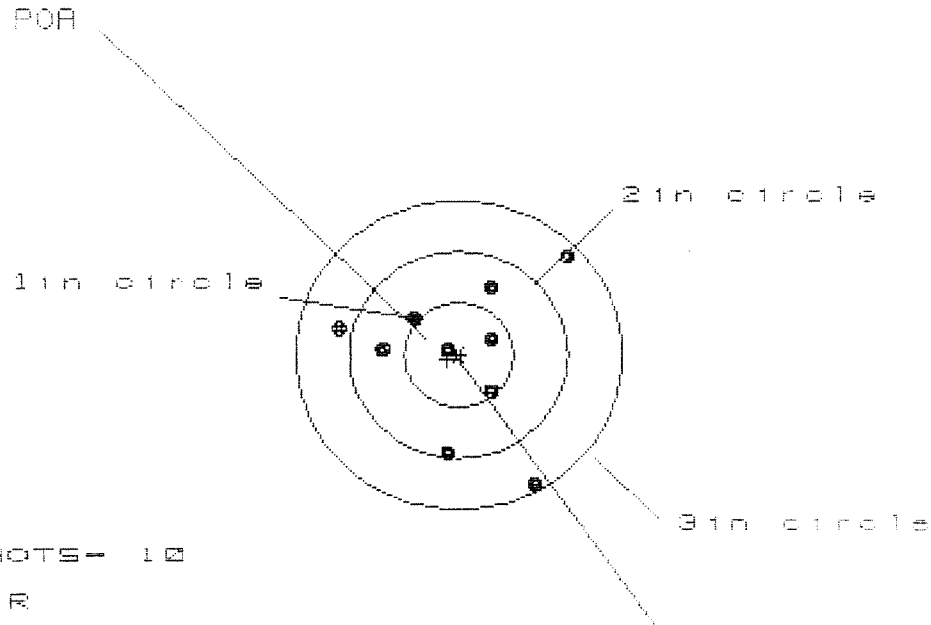


PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.636	.531	.421
MINIMUM X	:	-.952	-.544	-.478
MAXIMUM Y	:	.604	.535	.525
MINIMUM Y	:	-.625	-.505	-.515
CENTROID X	:	-.056	.049	-.017
CENTROID Y	:	.045	.114	.124
POA TO CENTROID in.	:	.072	.124	.125
MIN RADIUS	:	.117	.010	.042
MEAN RADIUS	:	.503	.399	.384
MAX RADIUS	:	1.138	.572	.559
HORIZONTAL SPREAD	:	1.588	1.075	.899
VERTICAL SPREAD	:	1.229	1.040	1.040
EXTREME SPREAD	:	1.703	1.079	1.058
NUMBER IN ONE INCH CIRCLE	=		6	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523389.1.1

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 3

2in = 7

3in = 10

HS= 2.054

VS= 2.195

GS= 2.326

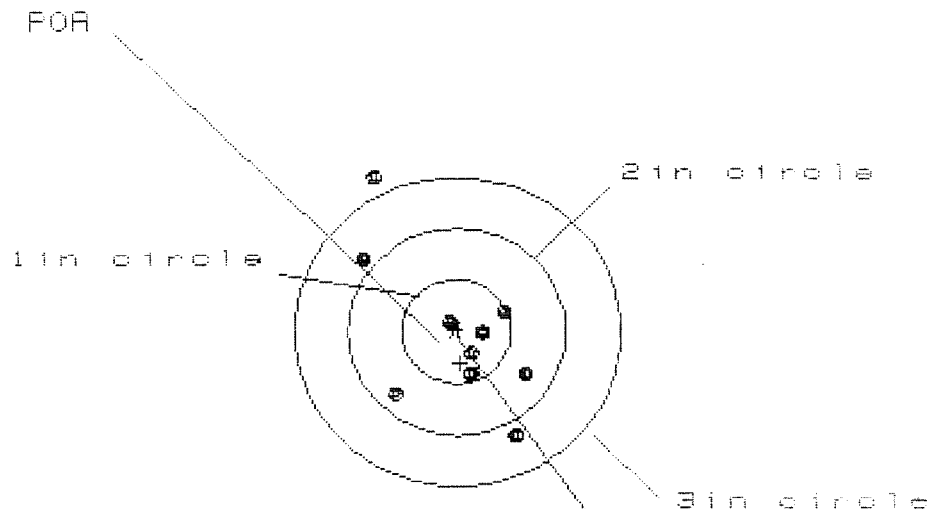
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.971	1.044	.525
MINIMUM X	:	-1.083	-1.010	-.880
MAXIMUM Y	:	.914	.772	.619
MINIMUM Y	:	-1.281	-1.058	-.962
CENTROID X	:	.104	.031	-.099
CENTROID Y	:	.046	.188	.092
POA TO CENTROID in.	:	.114	.191	.135
MIN RADIUS	:	.144	.077	.091
MEAN RADIUS	:	.771	.675	.595
MAX RADIUS	:	1.440	1.298	.965
HORIZONTAL SPREAD	:	2.054	2.054	1.405
VERTICAL SPREAD	:	2.195	1.830	1.581
EXTREME SPREAD	:	2.326	2.155	1.644
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

(4 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06523309.1.1

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 4

2in = 7

3in = 9

HS= 1.496

VS= 2.550

GS= 2.857

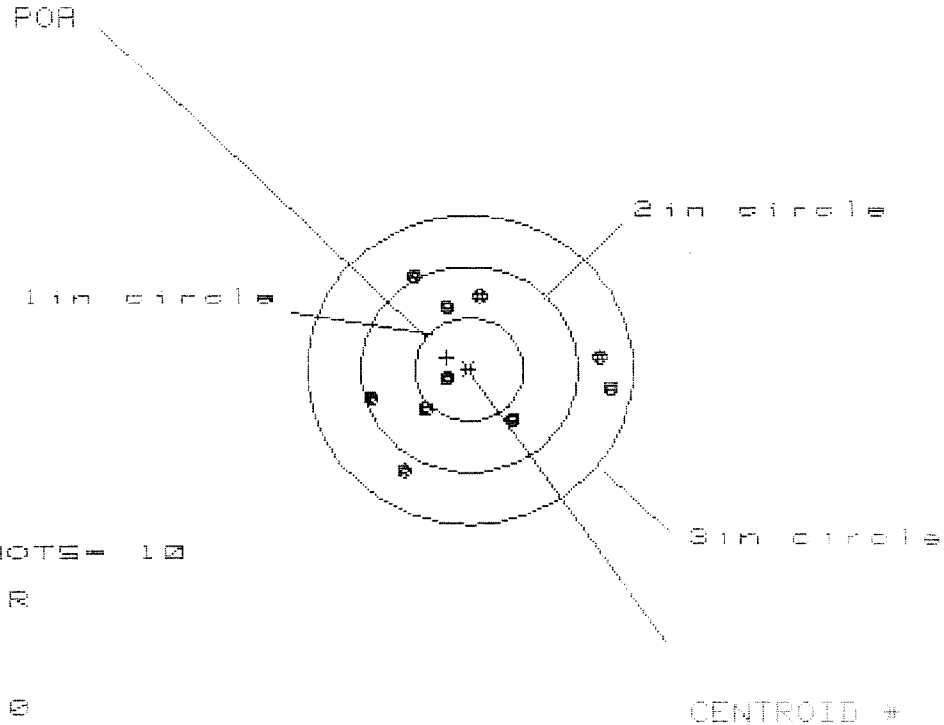
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.643	.562	.622
MINIMUM X	:	-.853	-.934	-.874
MAXIMUM Y	:	1.524	.891	.784
MINIMUM Y	:	-1.026	-.856	-.544
CENTROID X	:	-.035	.046	-.014
CENTROID Y	:	.302	.132	.239
POA TO CENTROID in.	:	.304	.140	.240
MIN RADIUS	:	.088	.048	.151
MEAN RADIUS	:	.702	.552	.509
MAX RADIUS	:	1.691	1.291	1.174
HORIZONTAL SPREAD	:	1.496	1.496	1.496
VERTICAL SPREAD	:	2.550	1.747	1.328
EXTREME SPREAD	:	2.857	2.245	1.841
NUMBER IN ONE INCH CIRCLE =			4	
NUMBER IN TWO INCH CIRCLE =			7	
NUMBER IN THREE INCH CIRCLE =			9	

14 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C85233B9.1.1

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 6

3 in = 10

HS = 2.228

VS = 1.872

GS = 2.230

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.305	1.312	.693
MINIMUM X	:	-.923	-.778	-.614
MAXIMUM Y	:	.914	.892	.905
MINIMUM Y	:	-.958	-.980	-.967
CENTROID X	:	.204	.059	-.105
CENTROID Y	:	-.117	-.095	-.108
POR TO CENTROID in.	:	.235	.112	.151
MIN RADIUS	:	.203	.081	.120
MEAN RADIUS	:	.842	.760	.676
MAX RADIUS	:	1.320	1.316	1.025
HORIZONTAL SPREAD	:	2.228	2.090	1.307
VERTICAL SPREAD	:	1.872	1.872	1.872
EXTREME SPREAD	:	2.230	2.135	1.875
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			10	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523309
15 Nov 1990

5000 RDS

CENTROIDAL DISTANCES

0 TO	1	.201517
1 TO	2	.183216
1 TO	3	.201646
1 TO	4	.2728
1 TO	5	.280492

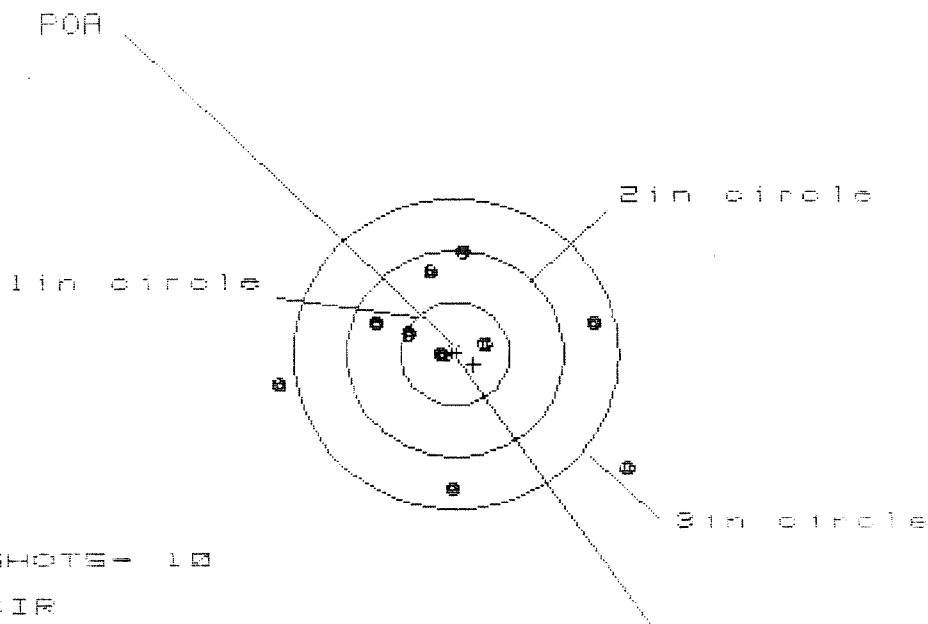
95 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1032
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0252
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .135563
THE AMR FOR THIS RIFLE IS: .9396

15 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309.1.1.1

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 3

2in = 5

3in = 8

HS= 3.184

VS= 2.344

GS= 3.273

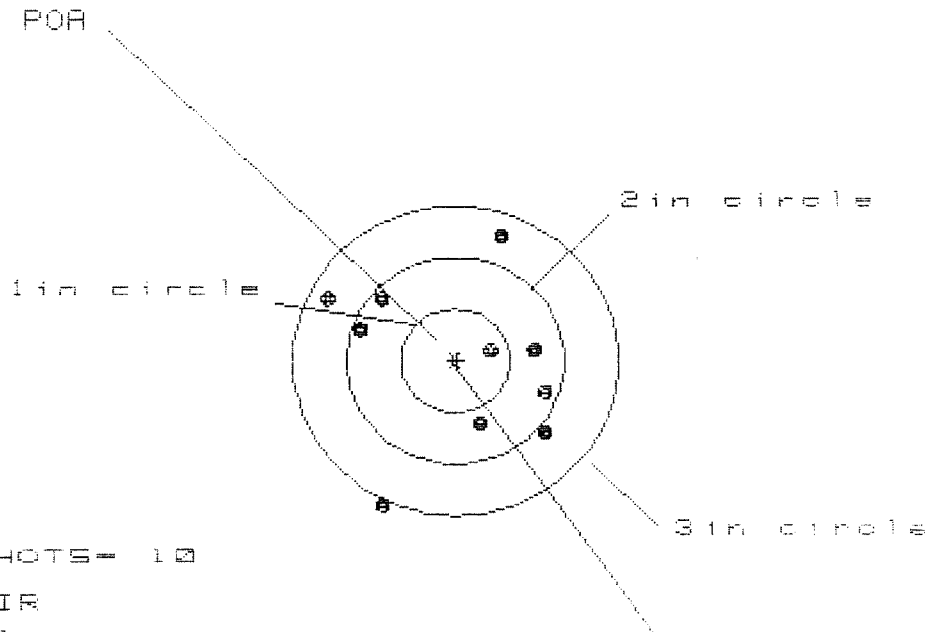
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.592	1.413	1.236
MINIMUM X	-1.592	-1.416	-.730
MAXIMUM Y	1.018	.898	.843
MINIMUM Y	-1.326	-1.446	-1.501
CENTROID X	-.172	-.348	-.172
CENTROID Y	.105	.225	.280
POA TO CENTROID in.	.201	.415	.328
MIN RADIUS	.176	.108	.239
MEAN RADIUS	.967	.814	.739
MAX RADIUS	1.923	1.482	1.501
HORIZONTAL SPREAD	3.184	2.829	1.966
VERTICAL SPREAD	2.344	2.344	2.344
EXTREME SPREAD	3.273	2.906	2.345
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

15 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523309.1.1.1

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 4

HS= 1.970

VS= 2.603

GS= 2.814

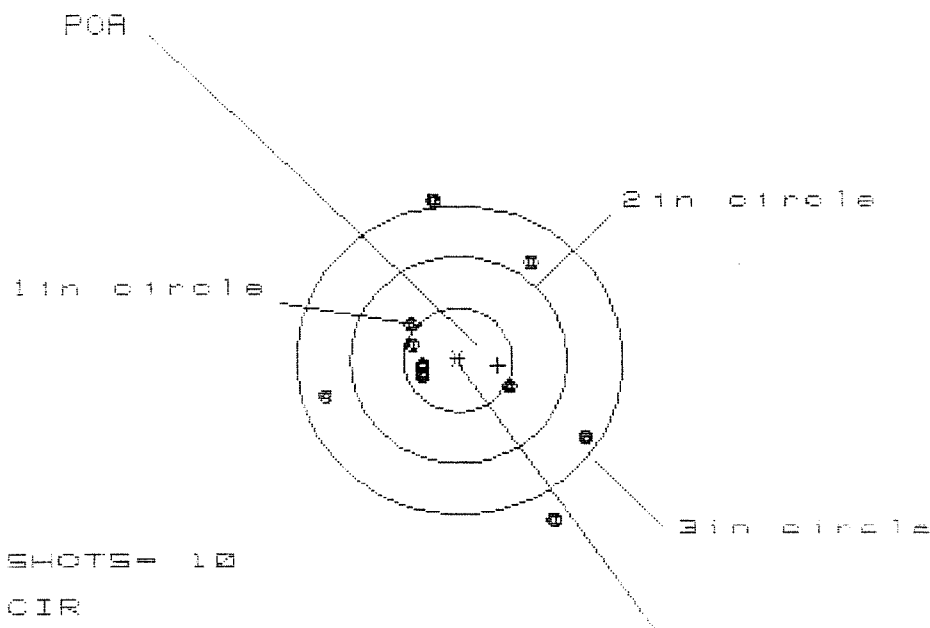
CENTROID X

PATTERN #	2	2	2
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.841	.770	.620
MINIMUM X	-1.129	-1.200	-1.085
MAXIMUM Y	1.207	1.051	1.108
MINIMUM Y	-1.396	-.827	-.770
CENTROID X	-.024	.047	.197
CENTROID Y	-.003	.152	.095
POA TO CENTROID in.	.024	.159	.218
MIN RADIUS	.326	.218	.086
MEAN RADIUS	.955	.873	.781
MAX RADIUS	1.533	1.283	1.129
HORIZONTAL SPREAD	1.970	1.970	1.705
VERTICAL SPREAD	2.603	1.878	1.878
EXTREME SPREAD	2.814	2.350	1.999
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	9		

15 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523309.1.1.1

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 5

3 in = 8

HS= 3.368

VS= 3.073

GS= 3.296

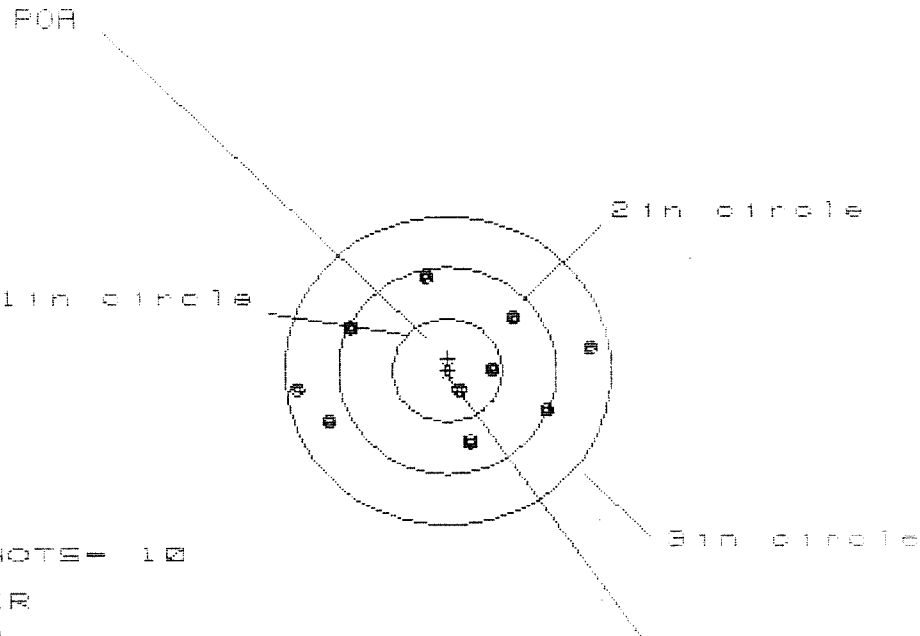
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.120	1.221	1.198
MINIMUM X	:	-1.245	-1.144	-1.167
MAXIMUM Y	:	1.552	1.383	.998
MINIMUM Y	:	-1.521	-.930	-.757
CENTROID X	:	-.366	-.467	-.444
CENTROID Y	:	.050	.219	.046
POA TO CENTROID in.	:	.369	.516	.447
MIN RADIUS	:	.310	.279	.232
MEAN RADIUS	:	.941	.823	.735
MAX RADIUS	:	1.772	1.535	1.417
HORIZONTAL SPREAD	:	2.365	2.365	2.365
VERTICAL SPREAD	:	3.073	2.313	1.755
EXTREME SPREAD	:	3.296	2.705	2.407
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

15 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06523309.1.1.1

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 2

2in = 7

3in = 10

HS= 2.712

VS= 1.512

GS= 2.740

CENTROID *

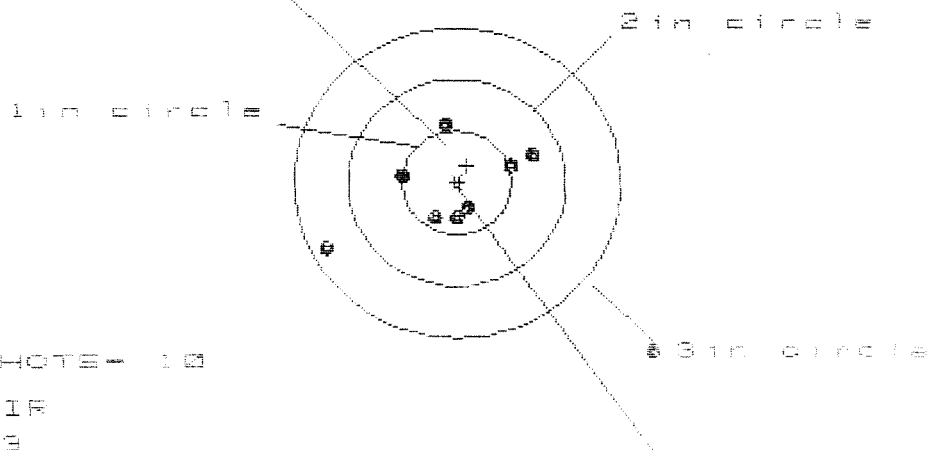
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.311	1.156	.894
MINIMUM X	:	-1.401	-1.229	-1.085
MAXIMUM Y	:	.872	.847	.865
MINIMUM Y	:	-.640	-.665	-.647
CENTROID X	:	-.008	.147	.003
CENTROID Y	:	-.113	-.088	-.106
POA TO CENTROID in.	:	.113	.172	.106
MIN RADIUS	:	.229	.252	.232
MEAN RADIUS	:	.888	.803	.767
MAX RADIUS	:	1.419	1.336	1.197
HORIZONTAL SPREAD	:	2.712	2.385	1.979
VERTICAL SPREAD	:	1.512	1.512	1.512
EXTREME SPREAD	:	2.740	2.476	1.982
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

15 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08523309.1.1.1

CENTERFIRE PATTERNS # 5

FOR



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 7

3 in = 0

ME = 2.808

SE = 3.708

LS = 4.693

CENTROID

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.844	.879	.775
MINIMUM X	:	-1.159	-.954	-1.058
MAXIMUM Y	:	2.099	1.928	.640
MINIMUM Y	:	-1.609	-.836	-.596
CENTROID X	:	-.896	-.381	-.197
CENTROID Y	:	-.165	.014	-.226
FOR TO CENTROID in.	:	.190	.381	.300
MIN RADII	:	.204	.348	.214
1 IN RADII	:	.947	.807	.577
2 IN RADII	:	2.447	2.091	1.214
HORIZONTAL SPREAD	:	3.008	1.838	1.833
VERTICAL SPREAD	:	3.708	2.756	1.236
EXTREME SPREAD	:	4.693	2.758	2.665
NO. OF SHOTS IN ONE INCH CIRCLE	=		3	
NO. OF SHOTS IN TWO INCH CIRCLE	=		7	
NO. OF SHOTS IN THREE INCH CIRCLE	=		8	

SWS

ENDURANCE TEST CHECKLIST

Torque scope mounting bolts to proper pressure before start of test.

Shoot Target and Accuracy Test at start of Endurance test.

First 5000 rounds - 60 rounds per hour.

Second 5000 rounds - 60 to 240 rounds per hour.

Firing in groups of 30 rounds.

Clean, decopper and lube every 30 rounds - CLP.

Retorque scope screw nuts and trigger guard screws every 500 rounds.

Magnaflux at 2500, 5000, 6000, 7000, 8000, 9000, 10000 rounds.

0 - Target and Accuracy Test ✓
440 - Target and Accuracy Test ✓
2500 - Magnaflux ✓
4500 - Target and Accuracy Test ✓
4940 - Target and Accuracy Test ✓
5000 - Magnaflux ✓
6000 - Magnaflux ✓
7000 - Magnaflux ✓
8000 - Magnaflux
9000 - Magnaflux
10000 - Magnaflux