

C6587516

MODEL 700TM M24

Model **SMS**TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

BARBER - M24 0021828 ESTIMATING REPORT

COMMENTS

ORDER

R 94-18117

INITIAL FDC CUSTOMER ORDER NO. DAAA09-92-C-0834

W/10X SCOPE M-24 SNIPER, W/DEPLOYMENT KIT
ATTN: FRED MARTIN

SCOPE 90-0144

DATE RECEIVED 06/09/94 DATE OPENED 06/09/94 DATE CODE SERIAL NUMBER C6587516 NEW SERIAL NUMBER MODEL AND GRADE 700 7-62 NATO
ACCESSORIES SLING STRAP HARD CASE SCOPE MNTS SCOPE BASE

FROM:

SHIP TO:

COMMANDER (W52H094138H226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL 36201-5025

COMMANDER (W52H094138H226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL

36201-5025

CUST NO: 098397 C-J-D

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

PROM. DATE

ESTIMATED

VIA

FRT

GUN CONDITION

- ☐ NEW
- ☐ LIGHTLY WORN
- ☐ WORN
- ☐ VERY WORN
- ☐ UNREPAIRABLE
- ☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

CUSTOMER CONCERN	AMMO	FUNCTION	FINISH	ACCURACY	FIT	INSPECT
CYCLE	A1	B1				
TRIGGER GROUP		B2			E1	F1
BOLT ASSY.		B3			E2	F2
BARREL ASSY.		B4		D1	E3	F3
REC. ASSY.		B5		D2	E4	F4
WOOD			C1	D3	E5	F5
METAL			C2			

MAIN FAULT

PARTS

COMMENTS

New Barrell

Trigger Assy

Front & Rear Sight Assy

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

OFFICE COPY

RD6925 REV. 1/94

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 0021828 21867

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6587576DATE 3/22/96TESTER SF

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.80	2.98		2.91	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.74	2.93		2.81	
PULL #3	2.65	2.87		2.99	
PULL #4	2.75	2.28		2.83	
PULL #5	2.82	3.03		2.95	
TOTAL	13.76	13.4		14.49	
AVG.	2.752	2.68		2.898	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.28	3.34		
PULL #2	3.23	3.40		
PULL #3	3.17	3.44		
PULL #4	3.37	3.55		
PULL #5	3.39	3.48		
TOTAL	16.44	17.21		
AVG.	3.288	3.442		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.62	4.60		4.23
PULL #2	4.50	4.64		4.07
PULL #3	4.22	4.68		4.27
PULL #4	4.40	4.39		4.20
PULL #5	3.93	4.93		4.26
TOTAL	22.17	23.24		21.03
AVG.	4.434	4.648		4.206

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587516
5 Feb 1900

CENTROIDAL DISTANCES

0 TO	1	1.00985
1 TO	2	.728813
1 TO	3	.558793
1 TO	4	.539233
1 TO	5	.486202

+¹/₂ <----POA

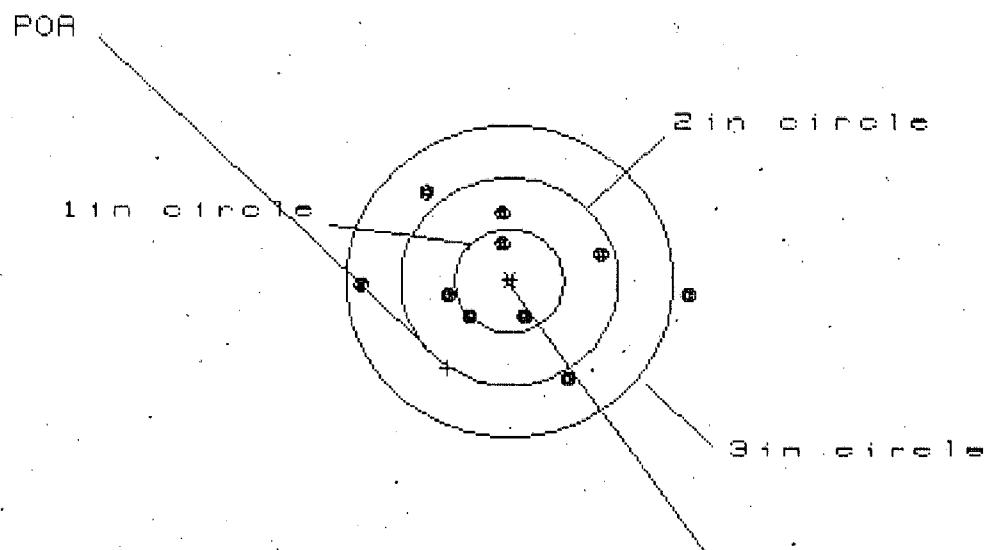
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .4974
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .4032
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .640294
THE AMR FOR THIS RIFLE IS: 1.013

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6587516

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 6

3 in = 9

HS= 3.026

VS= 1.825

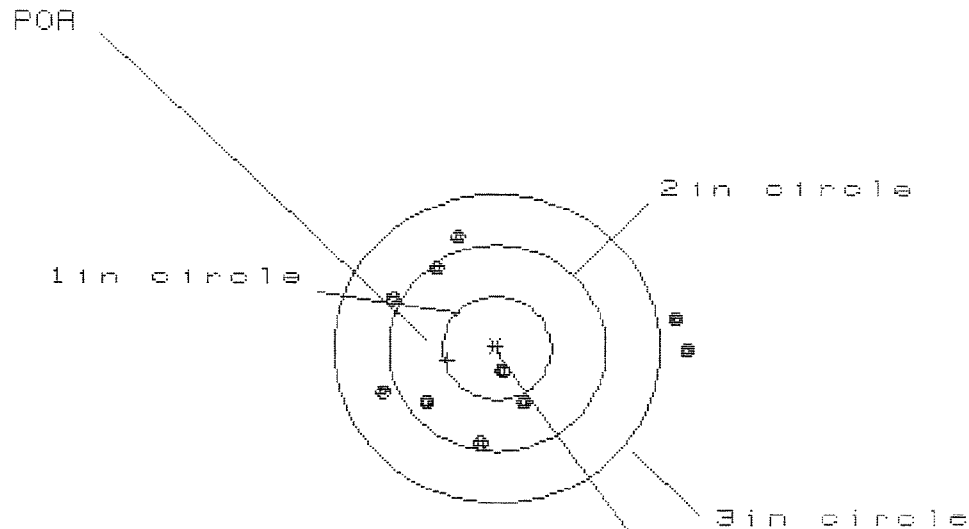
GS= 3.027

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.677	1.043	.898
MINIMUM X	-1.349	-1.163	-.754
MAXIMUM Y	.872	.856	.844
MINIMUM Y	-.953	-.969	-.981
CENTROID X	.565	.379	.524
CENTROID Y	.837	.853	.865
POA TO CENTROID in.	1.010	.933	1.011
MIN RADIUS	.338	.316	.301
MEAN RADIUS	.868	.756	.702
MAX RADIUS	1.683	1.197	1.131
HORIZONTAL SPREAD	3.026	2.206	1.652
VERTICAL SPREAD	1.825	1.825	1.825
EXTREME SPREAD	3.027	2.247	2.247
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	9		

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8587518

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS = 2.779

VS = 1.945

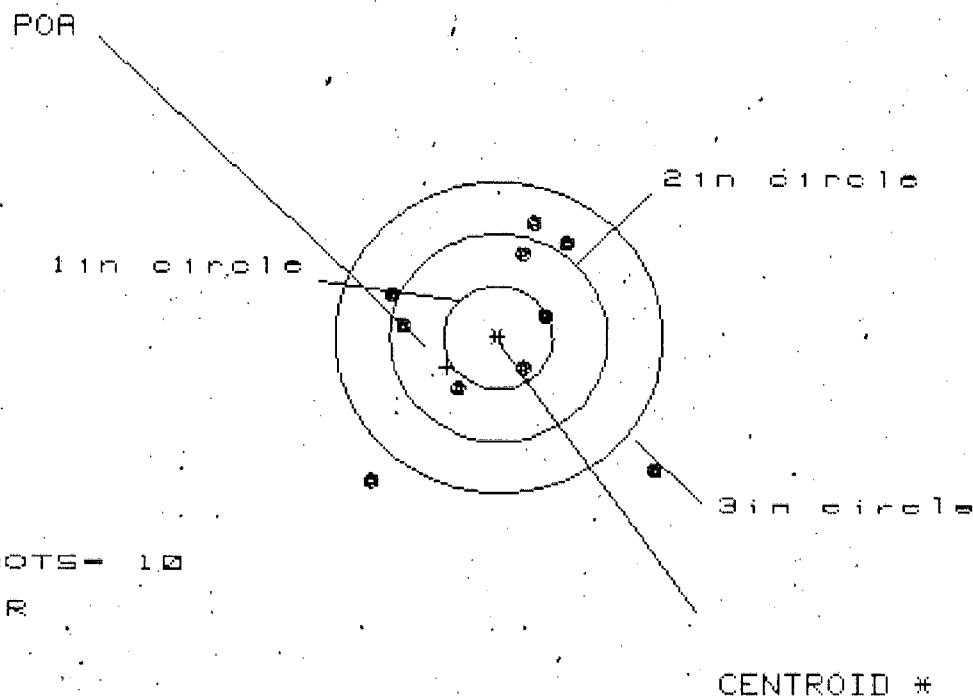
GS = 2.799

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.755	1.830	.661
MINIMUM X	-1.024	-.829	-.600
MAXIMUM Y	1.048	1.042	1.073
MINIMUM Y	-.897	-.903	-.872
CENTROID X	.452	.257	.028
CENTROID Y	.117	.123	.092
POA TO CENTROID in.	.467	.285	.096
MIN RADIUS	.205	.342	.536
MEAN RADIUS	1.017	.911	.769
MAX RADIUS	1.756	1.847	1.075
HORIZONTAL SPREAD	2.779	2.659	1.261
VERTICAL SPREAD	1.945	1.945	1.945
EXTREME SPREAD	2.799	2.736	1.953
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6587516

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in = 2

2in = 5

3in = 8

HS = 2.554

VS = 2.419

GS = 2.917

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.403	.809	.685
MINIMUM X	-1.151	-.995	-.961
MAXIMUM Y	1.079	.937	.751
MINIMUM Y	-1.340	-1.482	-.839
CENTROID X	.472	.316	.440
CENTROID Y	.286	.428	.614
POA TO CENTROID in.	.552	.532	.755
MIN RADIUS	.400	.610	.513
MEAN RADIUS	1.017	.911	.775
MAX RADIUS	1.898	1.785	.963
HORIZONTAL SPREAD	2.554	1.804	1.646
VERTICAL SPREAD	2.419	2.419	1.590
EXTREME SPREAD	2.917	2.856	1.717
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

5 Feb 1968

FILE:/PATTERNING/CENTERFIRE_PATT/C6587516

CENTERFIRE PATTERNS

4

POA

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 1.840

VS= 2.560

GS= 2.582

CENTROID #

PATTERN #	:	4
SHOTS (BEST OF)	:	10
MAXIMUM X	:	1.000
MINIMUM X	:	-.778
MAXIMUM Y	:	.974
MINIMUM Y	:	-1.586
CENTROID X	:	.259
CENTROID Y	:	.393
POA TO CENTROID in.	:	.470
MIN RADIUS	:	.076
MEAN RADIUS	:	.964
MAX RADIUS	:	1.601
HORIZONTAL SPREAD	:	1.840
VERTICAL SPREAD	:	2.560
EXTREME SPREAD	:	2.582
NUMBER IN ONE INCH CIRCLE	=	1
NUMBER IN TWO INCH CIRCLE	=	5
NUMBER IN THREE INCH CIRCLE	=	9

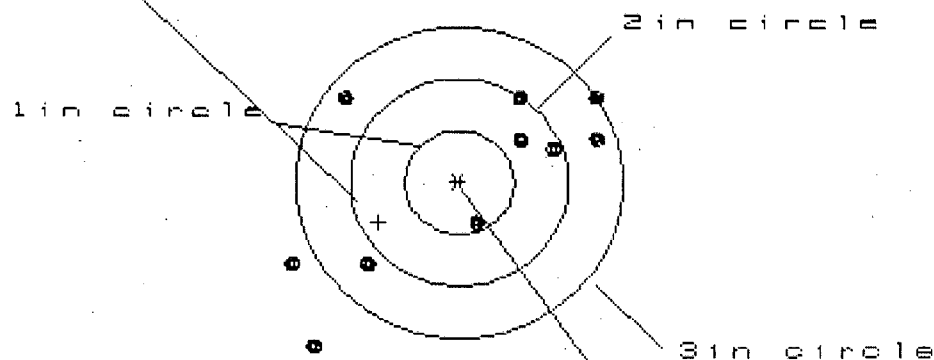
5 Feb 1968

FILE:/PATTERNING/CENTERFIRE_PATT/C6587516

CENTERFIRE PATTERNS

5

POA



OF SHOTS- 10

IN CIR

1 in - 1

2 in - 3

3 in = 8

HS= 2.771

VS= 2.449

GS= 3.472

CENTROID #

PATTERN #

5

	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.211	1.126	.920
MINIMUM X	-1.500	-1.645	-1.405
MAXIMUM Y	.851	.674	.553
MINIMUM Y	-1.598	-.969	-1.073
CENTROID X	.739	.884	1.090
CENTROID Y	.383	.560	.681
POA TO CENTROID in.	.832	1.047	1.285
MIN RADIUS	.394	.524	.286
MEAN RADIUS	1.201	1.060	.880
MAX RADIUS	2.065	1.909	1.571
HORIZONTAL SPREAD	2.771	2.771	2.325
VERTICAL SPREAD	2.449	1.643	1.626
EXTREME SPREAD	3.472	3.147	2.550
NUMBER IN ONE INCH CIRCLE	=	1	
NUMBER IN TWO INCH CIRCLE	=	3	
NUMBER IN THREE INCH CIRCLE	=	8	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6587516

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and Stock			
600	Proof			
607	Check Headspace			
610	Dis-assemble Gun			
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head			
	C) Inspect Ejector Hole for Chamfer			
	D) Oil Firing Pin Ass'y			
	E) Adjust Trigger Pull to Min Setting and Stake			

op. #	BARBER - M24 0021837 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	6	6			5/4/96	JW
	G) Safety Off Force	4	4	4			5/4/96	JW
	H) Trigger Pull Test & Retainability							
	I) Firing Pin Indent							
	J) Assemble Stock							
	K) Assemble Swivel Studs							
	L) Attach Front and Rear Sight Assemblies							
	M) Iron Sight Alignment							
	N) Detach Front & Rear Sights & place in numbered container							
	O) Attach Scope to Rifle							
	P) Detach & Attach Scope 20 Times							
640	Gallery Target & Test							
	A) Time							
	B) Malfunctions							
	C) Pierced Primers							
	D) Optical Clarity of Scope							
645	Inspect for Live Ammo							
655	Final Inspection							
	A) Headspace							
	B) Trigger Pull	2.43	2.43	2.57	2.34	2.42	5/4/96	JW
	C) Function							
660	Pack							

Remington
MODEL 700™ M24

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

DUPONT
REG. U.S. PAT. & TM. OFF.

SERIAL NO. C6587516

ORDER NO. 5716

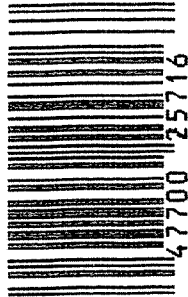
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Q1



5716 C6587516

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6587516

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/22/90	Kd
600	Proof		10/22/90	Kd
607	Check Headspace		10/22/90	Kd
610	Dis-assemble Gun		10/22/90	Kd
612	Magnaflux Barrel Action		10/24/90	KR
	Magnaflux Bolt		10/24/90	KR
615	Rollmark Caliber		10/24/90	BS
617	Drill and Tap Sight Holes		10/25/90	KB
618	Polish Barrel <i>RB</i>		10/26/90	WB
620	Apply Coatings (Barrel Action)		11-7-90	TA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11/7/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/7/90	KS
	C) Inspect Ejector Hole for Chamfer		11/7/90	KS
	D) Oil Firing Pin Ass'y		11/7/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11/26/90	JS

op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	3 3/4	3 3/4	3 3/4	11/26/90	WLB		
	G) Safety Off Force	2	2	2	11/26/90	WLB		
	H) Trigger Pull Test & Retainability				11-26-90	RL		
	I) Firing Pin Indent	.0205	.020	.0205	11/26/90	WLB		
	J) Assemble Stock				11/26/90	KS		
	K) Assemble Swivel Studs				11-28-90	JSB		
	L) Attach Front and Rear Sight Assemblies				11/26/90	KS		
	M) Iron Sight Alignment				11/26/90	KS		
	N) Detach Front & Rear Sights & place in numbered container				11/26/90	KS		
	O) Attach Scope to Rifle				11/26/90	KS		
P) Detach & Attach Scope 20 Times				11/26/90	KS			
640	Gallery Target & Test				11-27-90	DH		
	A) Time				11-27-90	DH		
	B) Malfunctions				11-27-90	DH		
	C) Pierced Primers				11-27-90	DH		
	D) Optical Clarity of Scope				11-27-90	DH		
645	Inspect for Live Ammo				11-27-90	DH		
655	Final Inspection							
	A) Headspace				11-28-90	JSB		
	B) Trigger Pull	248	246	244	241	247	11-28-90	JSB
	C) Function						11-28-90	JSB
660	Pack						12-17-90	DH

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6587516

DATE 11-26-90

TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.27	2.26	2.24	2.48	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.28	2.19	2.17	2.46	
PULL #3	2.22	2.25	2.26	2.44	
PULL #4	2.26	2.27	2.38	2.41	
PULL #5	2.27	2.33	2.32	2.47	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.45	3.38		
PULL #2	3.40	3.36		
PULL #3	3.39	3.37		
PULL #4	3.43	3.39		
PULL #5	3.40	3.44		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.29	4.24		4.29
PULL #2	4.23	4.25		4.21
PULL #3	4.24	4.25		4.25
PULL #4	4.25	4.28		4.23
PULL #5	4.24	4.33		4.22
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587516
27 Nov 1990

CENTROIDAL DISTANCES

0 TO 1	.088459
1 TO 2	.294272
1 TO 3	.0295466
1 TO 4	.419358
1 TO 5	.214981

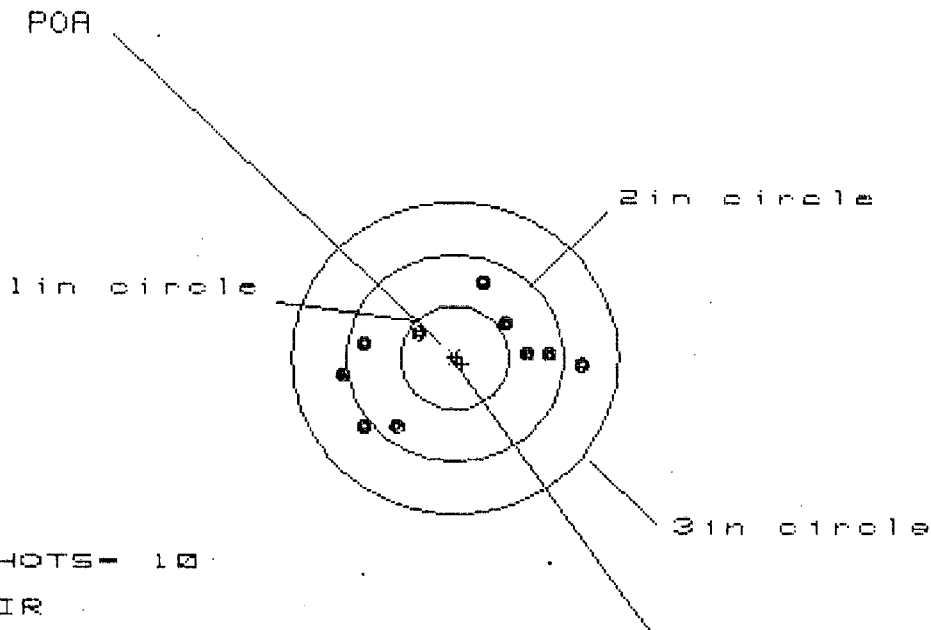
4 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0614
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0414
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0740535
THE AMR FOR THIS RIFLE IS: .899

27 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587516

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 7

3 in = 10

HS= 2.195

VS= 1.396

GS= 2.197

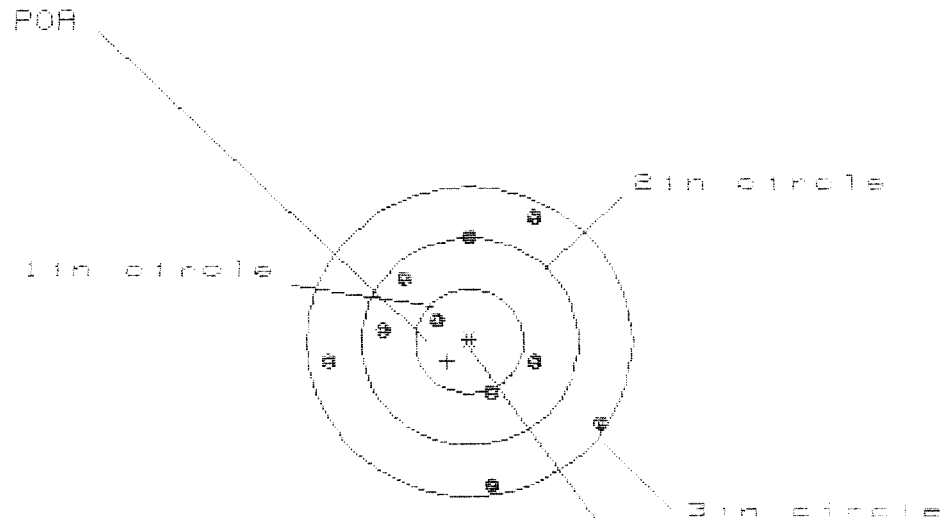
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.150	.999	.912
MINIMUM X	-1.046	-.919	-1.006
MAXIMUM Y	.732	.724	.640
MINIMUM Y	-.664	-.672	-.730
CENTROID X	-.065	-.192	-.105
CENTROID Y	.060	.068	.152
POA TO CENTROID in.	.088	.204	.185
MIN RADIUS	.410	.312	.325
MEAN RADIUS	.822	.774	.739
MAX RADIUS	1.152	.999	1.031
HORIZONTAL SPREAD	2.196	1.918	1.918
VERTICAL SPREAD	1.396	1.396	1.370
EXTREME SPREAD	2.197	1.923	1.923
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

27 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08587516

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 5

3 in = 10

HS= 2.464

VS= 2.615

GS= 2.646

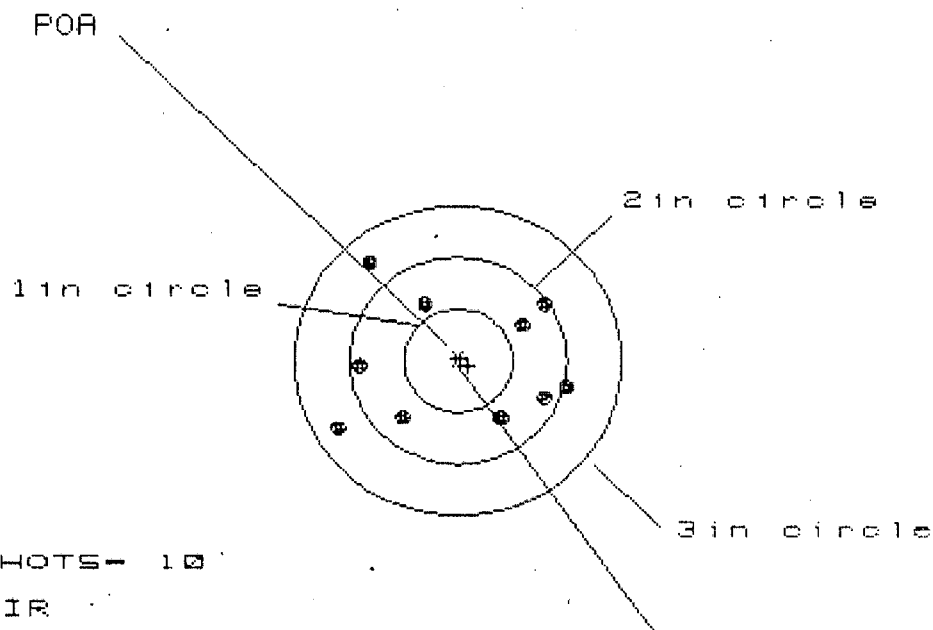
CENTROID #

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.211	.756	.793
MINIMUM X	-1.253	-1.118	-1.081
MAXIMUM Y	1.203	1.119	.932
MINIMUM Y	-1.412	-1.496	-1.770
CENTROID X	.199	.064	.027
CENTROID Y	.190	.274	.461
POA TO CENTROID in.	.275	.282	.462
MIN RADIUS	.342	.184	.131
MEAN RADIUS	.962	.883	.778
MAX RADIUS	1.430	1.525	1.187
HORIZONTAL SPREAD	2.464	1.874	1.874
VERTICAL SPREAD	2.615	2.615	1.705
EXTREME SPREAD	2.646	2.646	2.306
NUMBER IN ONE INCH CIRCLE	=	1	
NUMBER IN TWO INCH CIRCLE	=	5	
NUMBER IN THREE INCH CIRCLE	=	10	

27 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/CG587516

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 0

2in = 7

3in = 10

HS= 2.135

VS= 1.580

GS= 2.239

CENTROID #

PATTERN #	3		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.040	.919	.807
MINIMUM X	-1.095	-1.045	-1.157
MAXIMUM Y	.920	.846	.618
MINIMUM Y	-.660	-.647	-.541
CENTROID X	-.092	.030	.142
CENTROID Y	.048	.122	.016
POA TO CENTROID in.	.104	.125	.143
MIN RADIUS	.647	.564	.549
MEAN RADIUS	.908	.850	.780
MAX RADIUS	1.278	1.233	1.158
HORIZONTAL SPREAD	2.135	1.964	1.964
VERTICAL SPREAD	1.580	1.493	1.159
EXTREME SPREAD	2.239	2.175	1.976
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

27 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587516

CENTERFIRE PATTERNS

4

POR

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 4

2in = 5

3in = 9

HS= 2.263

VS= 2.568

GS= 2.737

CENTROID #

PATTERN #

4

SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.003	.863	.845
MINIMUM X	:	-1.260	-.802	-.820
MAXIMUM Y	:	1.499	1.395	.947
MINIMUM Y	:	-1.069	-1.173	-.998
CENTROID X	:	.166	.306	.324
CENTROID Y	:	-.290	-.186	-.361
POR TO CENTROID in.	:	.334	.359	.485
MIN RADIUS	:	.117	.281	.246
MEAN RADIUS	:	.835	.752	.646
MAX RADIUS	:	1.568	1.403	1.253
HORIZONTAL SPREAD	:	2.263	1.665	1.665
VERTICAL SPREAD	:	2.568	2.568	1.945
EXTREME SPREAD	:	2.737	2.606	2.234
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

27 Nov 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6587516

CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in - 1

2 in - 5

3 in = 10

HS= 2.262

VS= 2.086

GS= 2.448

CENTROID *

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.290	1.414	.820
MINIMUM X	-.972	-.848	-.672
MAXIMUM Y	1.071	1.173	1.261
MINIMUM Y	-1.015	-.913	-.825
CENTROID X	.099	-.025	-.201
CENTROID Y	.199	.097	.009
POA TO CENTROID in.	.223	.100	.201
MIN RADIUS	.459	.456	.302
MEAN RADIUS	.968	.887	.765
MAX RADIUS	1.447	1.578	1.285
HORIZONTAL SPREAD	2.262	2.262	1.492
VERTICAL SPREAD	2.086	2.086	2.086
EXTREME SPREAD	2.448	2.406	2.167
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	10		