C6498762

(Start Date) 6/21/87

MODEL 700™ M24

Model SWS™

Action

Barrel Length

Capacity

Order No. 5716

*Includes 1 in chamber.

Remington

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

Repair Number: RE00074613
Verify Repair

Serial: C6498762 Model 700 Center Fire Caliber: 7 62 NATO M24 SWS Produced: 06/19/1990

Repairman:

Status: Closed 12/29/2003 10:35:55 AM

Address Information

Customer: (Received From)	Return To: (Received From)
Name: HHC 3/327	HHC 3/327
Address 1:	
Address 2: PO Box:	PO Box:
City: FORT CAMPBELL	FORT CAMPBELL
State: KY Zip Code: 42223 Country: US	State: KY Zip Code: 42223 Country: US

FFL:

Contact / Condition | Problems | Estimate | History / Status | Shipping / Billing

Contact Information

Phone:
Fax:
Email:
Comments:

Received Condition

Fair

Condition Notes:

CSR Notes:

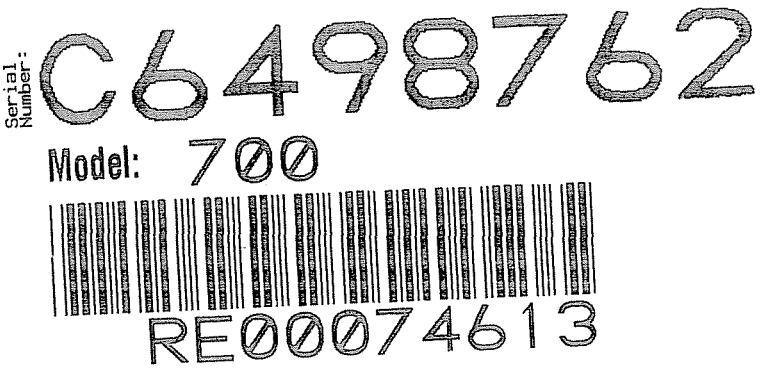
Accessories Received

Code	Desc	Qty
A007	With Studs	3
A010	Hard Case	1
A017	Scope Bases	3
A026	Scope	1
A045	Bi Pod	1

Repair Search | Refresh | Close

naglet 1/5/2004 9:04 AM CAPS NUM INS SCRL

start



SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFOMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498762.__0
FILE DATE AND TIME: 01/27/2004 10:22

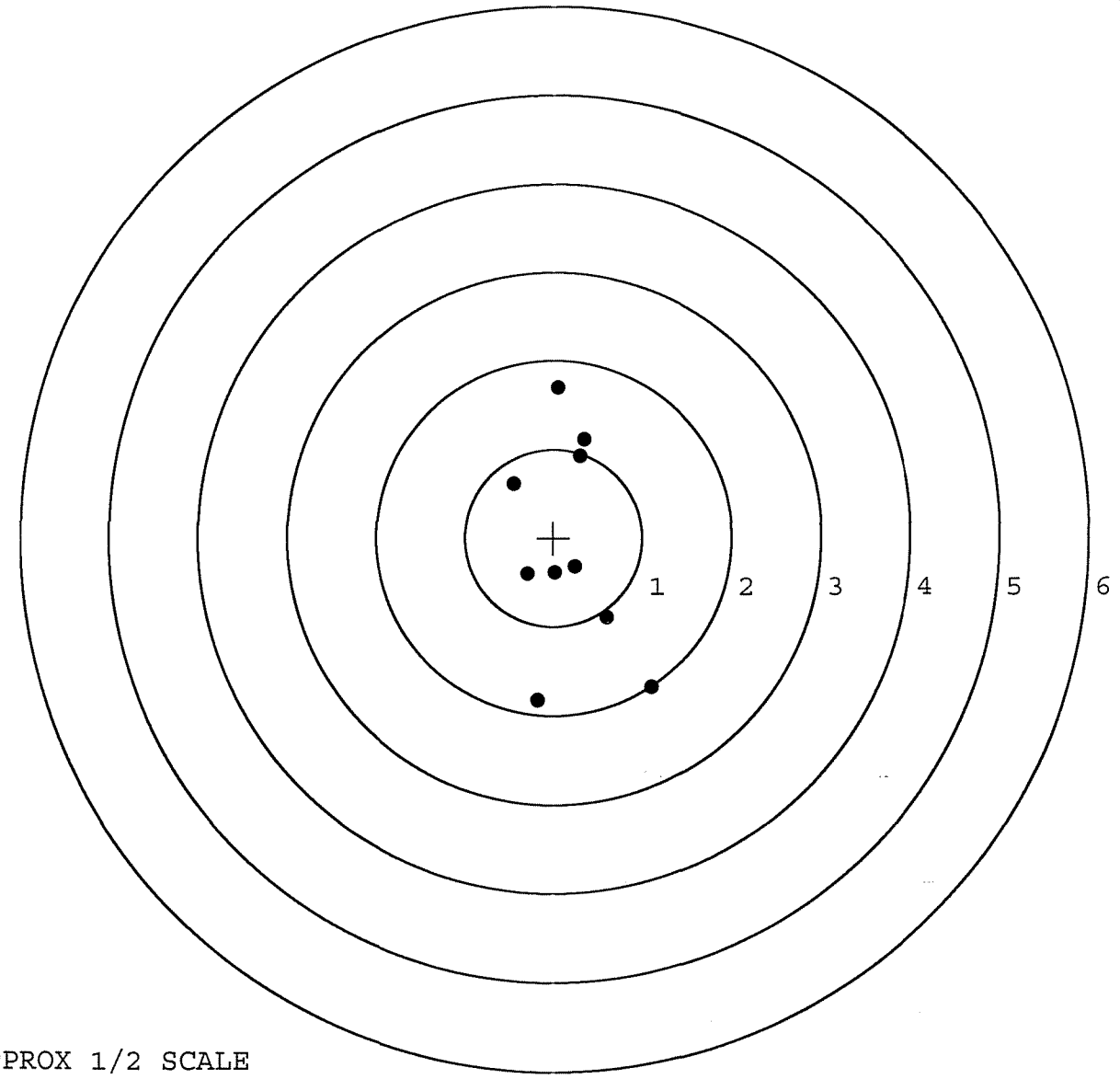
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.045
The Average Y Centroid of the Five Target Set:	0.035
The Average Point of Impact of the Five Target Set:	0.057
The Average Mean Radius of the Five Target Set:	1.004
The Distance from POA to Centroid Target #1:	0.211
The Distance from Centroid Target #2 to Centroid Target #1:	0.790
The Distance from Centroid Target #3 to Centroid Target #1:	0.468
The Distance from Centroid Target #4 to Centroid Target #1:	0.198
The Distance from Centroid Target #5 to Centroid Target #1:	0.249

SERIAL NUMBER: C6498762.__0
TARGET NUMBER: 1
FILE DATE: 01/27/2004
FILE TIME: 10:22

X CENTROID:	0.172
Y CENTROID:	-0.123
POA TO CENTROID:	0.211
HORZ SPREAD:	1.566
VERT SPREAD:	3.526
GROUP SPREAD:	3.539
MIN RADIUS:	0.220
MAX RADIUS:	1.822
MEAN RADIUS:	1.063
# IN 1 IN DIAMETER:	2
# IN 2 IN DIAMETER:	5
# in 3 IN DIAMETER:	7

POINT#	X	Y
1:	0.049	1.689
2:	0.340	1.113
3:	0.306	0.920
4:	-0.460	0.611
5:	0.240	-0.332
6:	0.016	-0.395
7:	-0.297	-0.407
8:	0.601	-0.905
9:	1.106	-1.688
10:	-0.182	-1.837

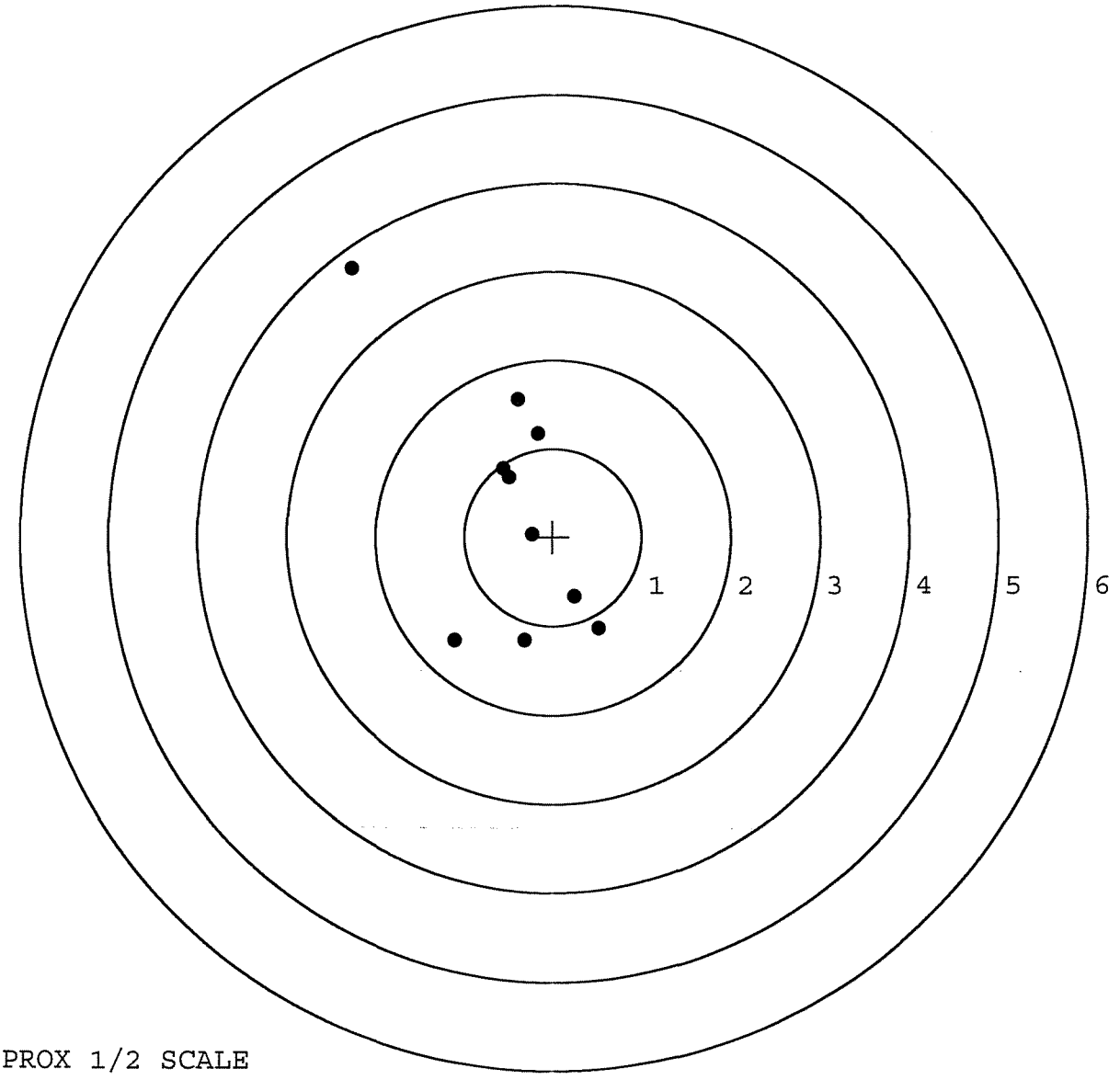


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498762.__0
TARGET NUMBER: 2
FILE DATE: 01/27/2004
FILE TIME: 10:22

X CENTROID:	-0.482
Y CENTROID:	0.320
POA TO CENTROID:	0.579
HORZ SPREAD:	2.791
VERT SPREAD:	4.197
GROUP SPREAD:	4.930
MIN RADIUS:	0.356
MAX RADIUS:	3.248
MEAN RADIUS:	1.260
# IN 1 IN DIAMETER:	3
# IN 2 IN DIAMETER:	4
# in 3 IN DIAMETER:	7

POINT#	X	Y
1:	-0.402	1.554
2:	-0.178	1.170
3:	-0.562	0.774
4:	-0.238	0.032
5:	-1.112	-1.160
6:	-0.323	-1.166
7:	0.520	-1.033
8:	0.243	-0.674
9:	-0.497	0.676
10:	-2.271	3.031

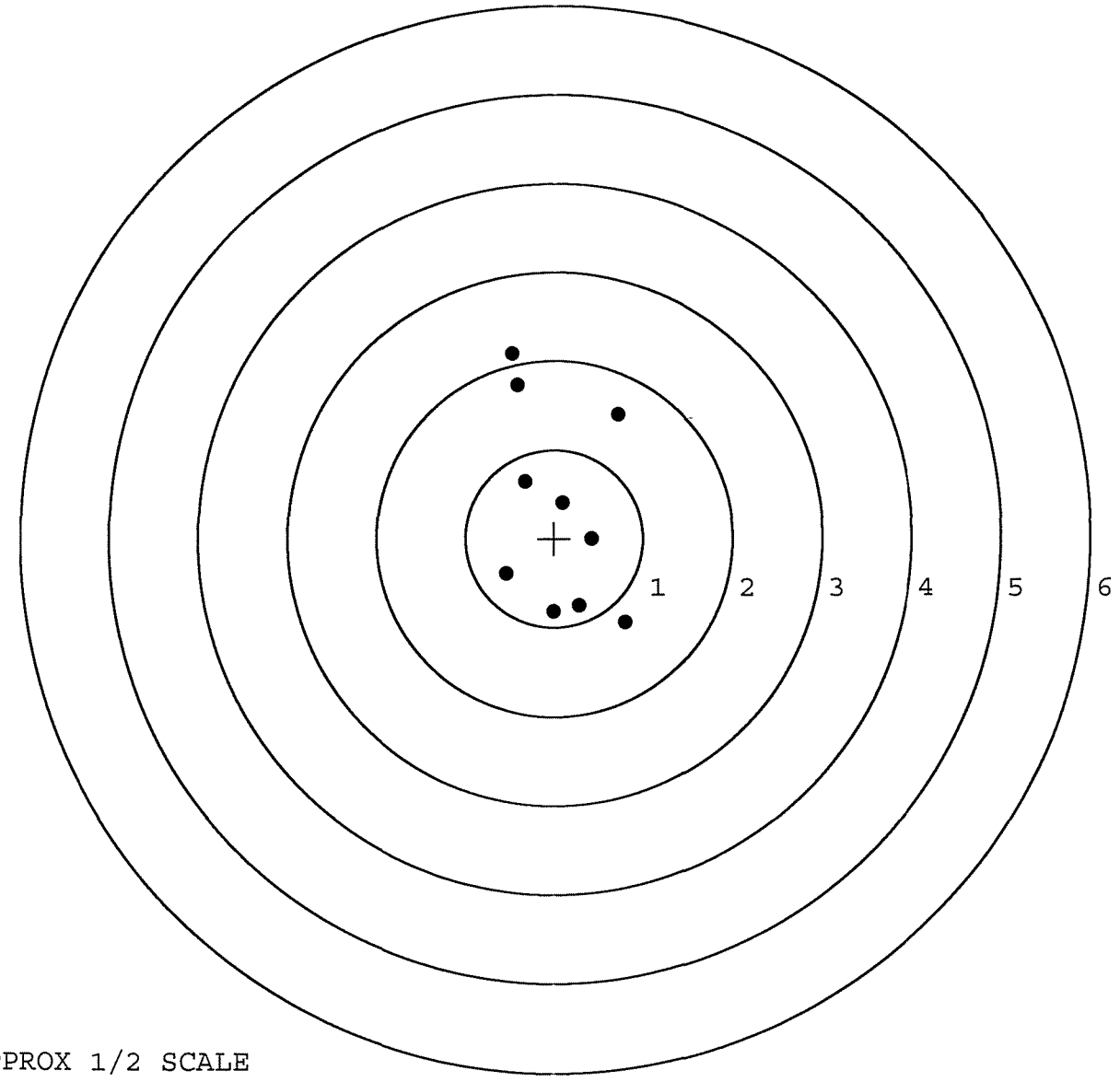


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498762.__0
TARGET NUMBER: 3
FILE DATE: 01/27/2004
FILE TIME: 10:22

X CENTROID:	0.052
Y CENTROID:	0.329
POA TO CENTROID:	0.333
HORZ SPREAD:	1.346
VERT SPREAD:	3.030
GROUP SPREAD:	3.293
MIN RADIUS:	0.082
MAX RADIUS:	1.829
MEAN RADIUS:	1.035
# IN 1 IN DIAMETER:	1
# IN 2 IN DIAMETER:	4
# in 3 IN DIAMETER:	9

POINT#	X	Y
1:	-0.484	2.078
2:	-0.421	1.722
3:	0.715	1.400
4:	-0.339	0.642
5:	0.091	0.402
6:	0.422	-0.008
7:	-0.540	-0.404
8:	-0.008	-0.828
9:	0.282	-0.761
10:	0.806	-0.952

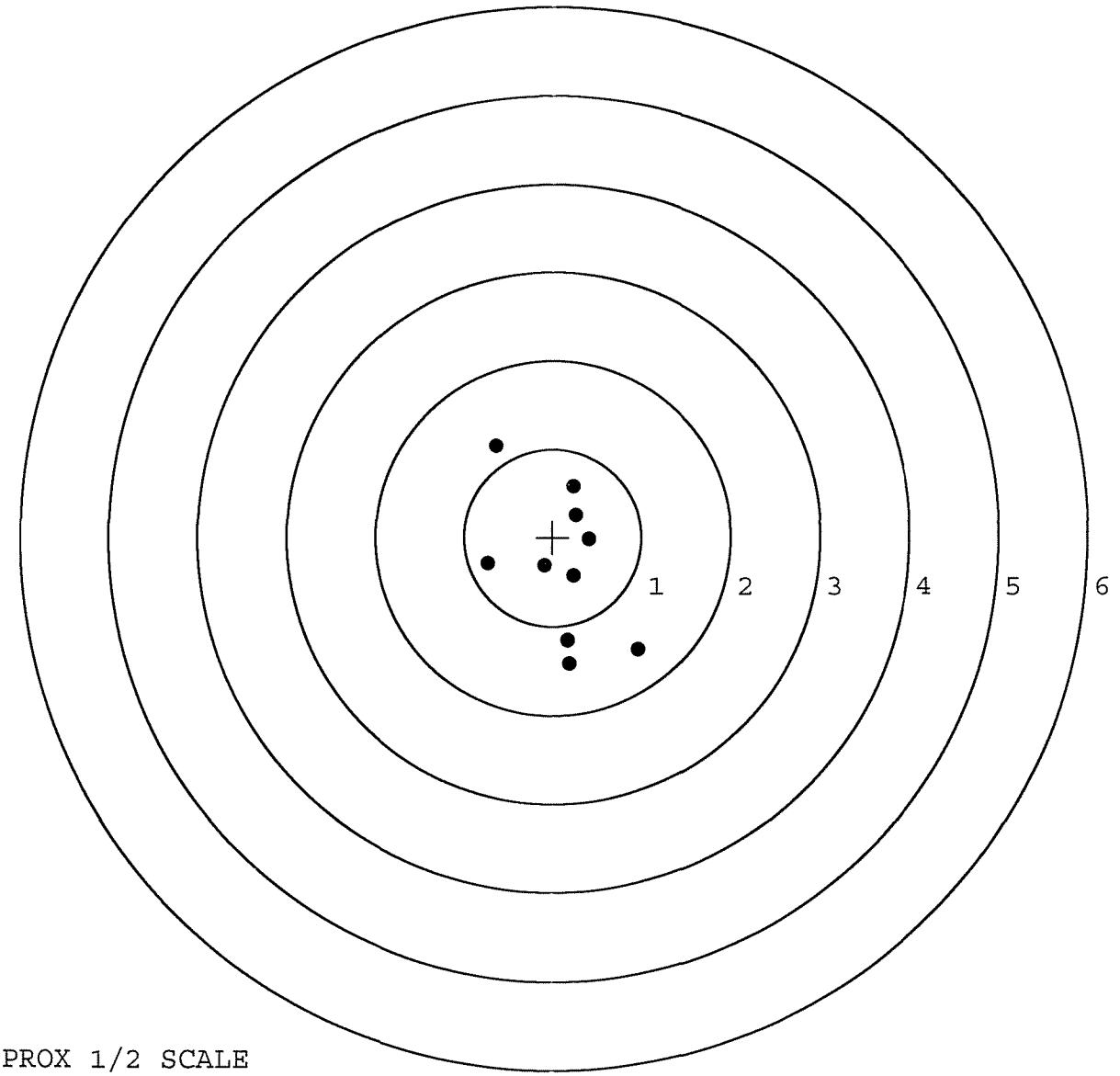


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498762.__0
TARGET NUMBER: 4
FILE DATE: 01/27/2004
FILE TIME: 10:22

X CENTROID:	0.097
Y CENTROID:	-0.306
POA TO CENTROID:	0.321
HORZ SPREAD:	1.699
VERT SPREAD:	2.455
GROUP SPREAD:	2.808
MIN RADIUS:	0.190
MAX RADIUS:	1.534
MEAN RADIUS:	0.791
# IN 1 IN DIAMETER:	3
# IN 2 IN DIAMETER:	7
# in 3 IN DIAMETER:	9

POINT#	X	Y
1:	-0.649	1.034
2:	0.229	0.579
3:	0.255	0.251
4:	0.408	-0.021
5:	-0.097	-0.324
6:	0.234	-0.438
7:	-0.734	-0.296
8:	0.167	-1.160
9:	0.191	-1.421
10:	0.965	-1.264

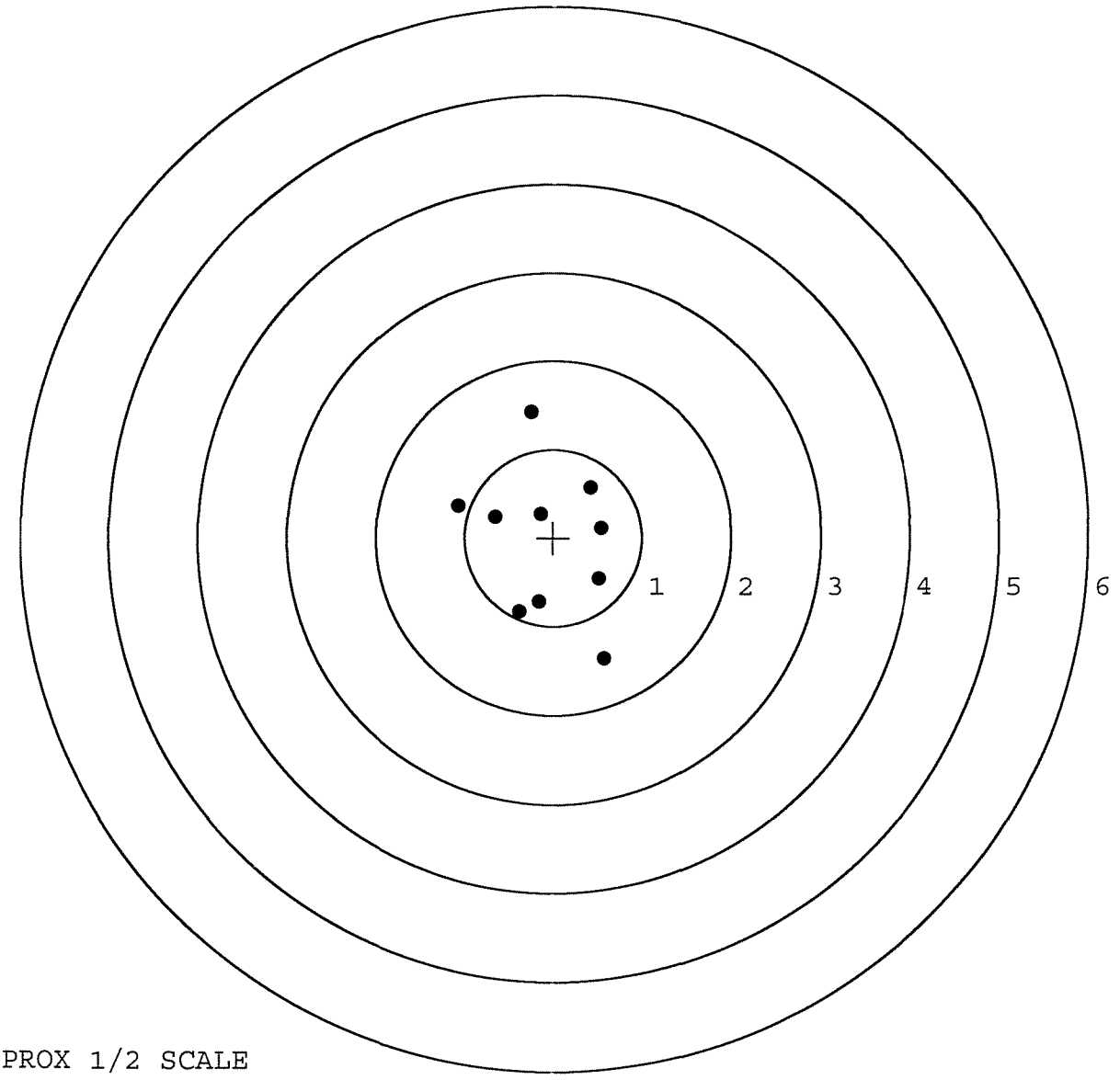


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498762.__0
TARGET NUMBER: 5
FILE DATE: 01/27/2004
FILE TIME: 10:22

X CENTROID:	-0.064
Y CENTROID:	-0.044
POA TO CENTROID:	0.078
HORZ SPREAD:	1.649
VERT SPREAD:	2.785
GROUP SPREAD:	2.907
MIN RADIUS:	0.326
MAX RADIUS:	1.474
MEAN RADIUS:	0.870
# IN 1 IN DIAMETER:	1
# IN 2 IN DIAMETER:	7
# in 3 IN DIAMETER:	10

POINT#	X	Y
1:	-0.257	1.417
2:	0.417	0.567
3:	0.544	0.109
4:	0.517	-0.468
5:	0.575	-1.368
6:	-0.164	-0.729
7:	-0.386	-0.844
8:	-0.149	0.270
9:	-0.663	0.235
10:	-1.074	0.366



TARGET APPROX 1/2 SCALE

R & E NUMBER	14613		
SERIAL NUMBER	C04987G2		
LOG-IN DATE	12-29-03		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	1-06-04	RTC
560 A	RE-BARREL	1-7-04	RTC
B	DRILL AND TAP	1-9-04	TRW
575	ASSEMBLE	1-8-04	RTC
600	PROOF	1-8-04	RW
605	CHECK HEADSPACE	1-8-04	RW
610	DIS-ASSEMBLE GUN	1-8-04	RW
612	MAGNAFLUX OPERATOR		
615	ROLLMARK CALIBER	1-13-04	KB
618	ROTO-BLAST	1/13/2004	Dans.
620	APPLY COATINGS	1-15	TA
625 A	FINAL ASSEMBLY	1-20-04	RTC
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	1-27-04	AC
655	FINAL INSPECT	1-28-04	RTC
660	PACK	1-28-04	DA
		SHIP DATE	
	QAR INSPECTION DATE		

RECEIVING AND ESTIMATING REPORT

R 96-04793

INITIAL	CUSTOMER ORDER NO.
FPS	

M-24 SNIPER W/10X LEUPOLD SCOPE

DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	NEW SERIAL NUMBER	MODEL AND GRADE
02/12/96	02/12/96		C6498762		700 7.62 NATO

ACCESSORIES HARD CASE SCOPE MNTS SCOPE BASE W/STUDS W/SWIVELS W/SCOPE CASE

FROM:

U S ARMY
C CO. 3/5 SFG (A)
FT CAMPBELL KY 42223

SHIP TO:

U S ARMY
C CO. 3/5 SFG (A)
FT CAMPBELL KY 42223

CUST NO:137790 C.O.D

ACCOUNT NUMBER	ACCOUNT NUMBER N/C	WRITE ☐	PROM. DATE	ESTIMATED	VIA
					UPS

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

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
GALLERY TESTER	**DATE**	**DATE**	**DATE**	**DATE**	**DATE**

OFFICE COPY

RD6925 REV. 1/94

86A

MAINTENANCE REQUEST

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

PAGE NO.	NO. OF PAGES	REQUIREMENTS CONTROL SYMBOL
1	1	CSGLD - 1047(R1)

SECTION I - EQUIPMENT DATA

CONTROL NUMBER	WORK ORDER NO.	WESDC	ORG. PD	PD AUTHENTICATION

☐ Work Request
☐ MWO
☒ Warranty Claim

1A. ORGANIZATION	B. LOCATION	C. UNIT IDENT CODE
B Co 3/5 SFG	Ft. Campbell KY 42223	WH06B0

2. SERIAL NO.	3. NOUN NOMENCLATURE	4. LINE NO.	5. MODEL	6. NATIONAL STOCK NUMBER
C6498762	7.62mm M24 SWS		M24	1005-01-240-2136

7A. MAINTENANCE ACTIVITY	B. LEVEL	8. UTILIZATION CODE	9A. MCSR ITEM	9B. ERC	9C. PACING ITEM	10. HOURS	11. MILES	12. ROUNDS	13. STARTS
IMO									

14. FAILURE DETECTED DURING *(Select one - use ✓ or X)*

☐ A	Sch. Main.	☐ C	Test	☐ E	Storage	☐ G	Flight
☐ B	Handling	☐ D	Normal Op	☐ F	Inspection	☒ H	Other

15. FIRST INDICATION OF TROUBLE *(Select one - use ✓ or X)*

☐ 068	Inoperative	☐ 258	Overheating	☐ 790	Out of Adjustment
☐ 008	Noisy	☐ 387	Low Performance	☒	Other

16A. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM *(Do not prescribe repairs)*

Rnd Count over 5,000

B. REMARKS

PREPARATION INSTRUCTIONS *(Prior to using this form, read DA PAM 738-750 for detailed preparation instructions)*

1. Place a "✓" or an "X" in the box for the type of action required.
2. Enter the WESDC if the item is Materiel Condition Status Reportable.
3. Enter the priority designator as determined from the urgency of need and force activity designator.
4. The Unit Commander, Chief of TDA activity or their designated representative will authenticate, by signature, a priority of 01 through 08.
5. *Block 1A.* Enter the name of the organization submitting the request.
6. *Block 1B.* Enter the unit submitting the request; units overseas enter APO only.
7. *Block 1C.* Enter the unit identification code of the unit in block 1A.
8. *Block 2.* Enter the equipment serial number. For ammunition, enter the lot number. For administrative-use vehicles, enter the USA registration number.
9. *Block 3.* Enter the noun abbreviation of the item.
10. *Block 4.* Enter the item line number, if applicable.
11. *Block 5.* Enter the model number.
12. *Block 6.* Enter the National Stock Number of the item listed in Block 3.
13. *Block 7.* Enter the name of the support activity.
14. *Block 7A.* Enter the symbol of the maintenance category (O, F, H, D, or L).
15. *Block 8.* Enter the utilization code.
16. *Block 9A.* Enter the word "yes" if the item is Materiel Condition Status Reportable.
17. *Block 9B.* Enter the equipment readiness code, if applicable.
18. *Block 9C.* Enter the word "yes" if the item is a pacing item.
19. *Block 10.* Enter the hour reading, if applicable.
20. *Block 11.* Enter the mileage from the odometer, if applicable.
21. *Block 12.* Enter the total rounds fired, if applicable.
22. *Block 13.* For turbine engines, enter the number of hot starts.
23. *Block 14.* Enter a "✓" or "X" in the proper block.
24. *Block 15.* Enter a "✓" or "X" in the proper block.
25. *Block 16.* Describe briefly the fault or symptoms needing correction.

23. SUBMITTED BY	24. RECEIVED BY
Terry J Wil	
JULIAN DATE	JULIAN DATE

DA FORM 2407, AUG 88 — EDITION OF MAY 81 MAY BE USED — RECEIPT COPY 1

MAINTENANCE REQUEST

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

PAGE NO	NO OF PAGES	REQUIREMENTS CONTROL SYMBOL
1	1	CSGLD - 1047(R1)

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☐ MWO
☒ Warranty Claim

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B Co 3/5 SFG	Ft. Campbell KY 42223	WH06B0

2. SERIAL NO.	3. NOUN NOMENCLATURE	4. LINE NO.	5. MODEL	6. NATIONAL STOCK NUMBER
C6498762	7.62mm M24 SWS		M24	1005-01-240-2136

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IMO									

14. FAILURE DETECTED DURING *(Select one - use ✓ or X)*

☐ A	Sch. Main.	☐ C	Test	☐ E	Storage	☐ G	Flight
☐ B	Handling	☐ D	Normal Op	☐ F	Inspection	☒ H	Other

15. FIRST INDICATION OF TROUBLE *(Select one - use ✓ or X)*

☐ 068	Inoperative	☐ 258	Overheating	☐ 790	Out of Adjustment
☐ 008	Noisy	☐ 387	Low Performance	☒	Other

16A. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM *(Do not prescribe repairs).*

RND Count over 5,000

B. REMARKS

SECTION II - WORK ACCOMPLISHED

17A. REPAIR ORGANIZATION/ACTIVITY	C. UNIT IDENT. CODE	18. TYPE ORGANIZATION/ACTIVITY ACCOMPLISHING WORK *(Select one - use ✓ or X)*	19. AMS ACCT. CODE
B. LOCATION		☐ 1 TOE ☐ 2 TD ☐ 3 Contractor	

20A. ACT. CODE	B. FAILURE CODE	C. COMPONENT/PART NOUN, SVC, OR MWO NO. (1) CB CODE	(2) REF DESIGN.	(3) MFR. CODE	D. MANHOURS *(Hrs. & tenths)*	E. NATIONAL STOCK NUMBER	F. PART SOURCE CODE	G. QTY.	H. PARTS COST
					.				$
					.				$
					.				$
					.				$
					.				$
					.				$
					.				$
					.				$
					.				$

I. TOTAL MANHOURS	J. TOTAL MANHOURS COST	K. TOTAL PARTS COST
	$	$

21. DELAY *(Select One)* ☐ 1 Parts ☐ 2 Manpower ☐ 3 Facilities ☐ 4 Funds ☐ 5 Tools

22. ☐ Data Transcribed

23. SUBMITTED BY	24. RECEIVED BY	25. WORK STARTED BY	26. INSPECTED BY	27. ACCEPTED BY
TONY J [illegible]				
JULIAN DATE	JULIAN DATE	JULIAN DATE	JULIAN DATE	JULIAN DATE

28. DISPOSITION *(Select One)*

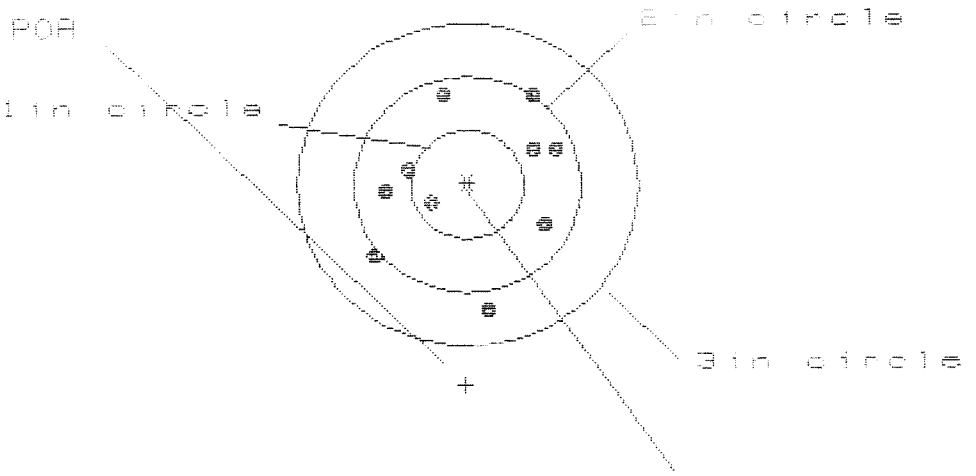
☐ A To User ☐ B To Stock ☐ C Salvaged ☐ D Evacuated ☐ E Cannibalization

DA FORM 2407, AUG 88 EDITION OF MAY 81 MAY BE USED NMP COPY 2

2/13/96

13 Jan 1998 FILE:/PATTERNING/CENTERFIRE_PATT/C0438782

CENTERFIRE PATTERNS # 1



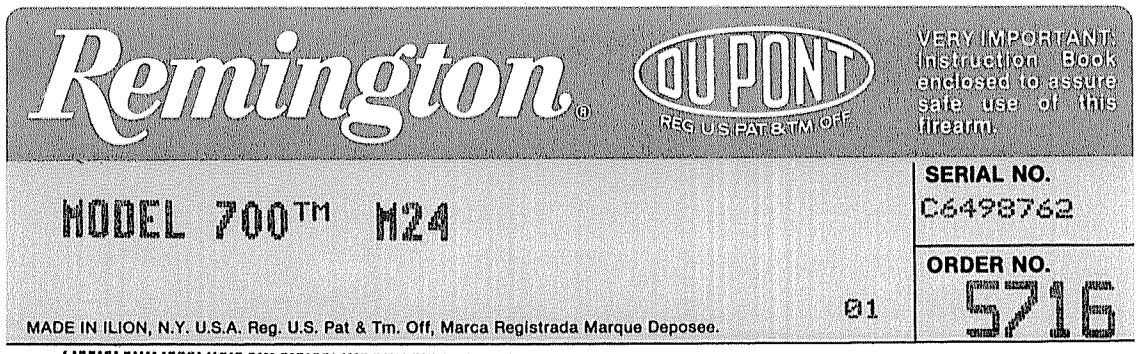
OF SHOTS= 10

IN CIR
1 in = 1
2 in = 8
3 in = 10

HS= 1.596
VS= 2.060
GS= 2.092

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.783	.797	.697
MINIMUM X	:	-.813	-.799	-.828
MAXIMUM Y	:	.855	.721	.623
MINIMUM Y	:	-1.205	-.786	-.592
CENTROID X	:	.022	.000	.108
CENTROID Y	:	1.862	1.996	2.094
POA TO CENTROID in.	:	1.862	1.996	2.097
MIN RADIUS	:	.378	.436	.470
MEAN RADIUS	:	.808	.752	.698
MAX RADIUS	:	1.212	1.120	.883
HORIZONTAL SPREAD	:	1.596	1.596	1.525
VERTICAL SPREAD	:	2.060	1.507	1.215
EXTREME SPREAD	:	2.092	2.007	1.583
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

Previous Ave .8068



M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6498762

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	5 2	90	RW
600	Proof	5 2	90	RW
607	Check Headspace	5 2	90	RW
610	Dis-assemble Gun	5 2	90	RW
612	Magnaflux Barrel Action	5-8-90		KCR
	Magnaflux Bolt	5-8-90		KCR
615	Rollmark Caliber		5/8/90	GS
617	Drill and Tap Sight Holes		5/9/90	KB
618	Polish Barrel KB		5/10/90	KB
620	Apply Coatings (Barrel Action)		5/16/90	TH
	Apply Coating (Bolt)			TH
625	Final Assembly A) Clean inside of Bolt Assembly		5/18/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/18/90	RW
	C) Inspect Ejector Hole for Chamfer		5/18/90	RW
	D) Oil Firing Pin Ass'y		5/18/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/22/90	DH

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	~~4 1/2~~	~~4 1/2~~	~~4 1/2~~	5/22/90	RW
	G) Safety Off Force	2 1/2	2 1/2	2 1/2	5/22/90	RW
	H) Trigger Pull Test & Retainability				5/22/90	RW
	I) Firing Pin Indent	.0235	.024	.0235	5/22/90	RW
	J) Assemble Stock				5/23/90	RW
	K) Assemble Swivel Studs				24 May 90	RW
	L) Attach Front and Rear Sight Assemblies				5/23/90	RW
	M) Iron Sight Alignment				5/23/90	RW
	N) Detach Front & Rear Sights & place in numbered container				5/23/90	RW
	O) Attach Scope to Rifle				5/23/90	RW
	P) Detach & Attach Scope 20 Times				5/23/90	RW
640	Gallery Target & Test				5-23-90	DH
	A) Time				5-23-90	DH
	B) Malfunctions				5-23-90	DH
	C) Pierced Primers				5-23-90	DH
	D) Optical Clearity of Scope				5-23-90	DH
645	Inspect for Live Ammo				5-23-90	DH
655	Final Inspection A) Headspace				24 May 90	RW
	B) Trigger Pull	256	254	242	245	250	24 May 90	RW
	C) Function				24 May 90	RW
660	Pack				6/20/90	DH

S&S TRIGGER PULL TEST

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

SERIAL NO C6498762

DATE 5/22/90

TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.26	2.45	2.55	2.56	MIN. SETTING,
PULL #2	2.51	2.54	2.28	2.59	NO AVG. OF 5
PULL #3	2.43	2.23	2.18	2.42	READINGS ACCEPT-
PULL #4	2.38	2.41	2.17	2.45	ABLE LESS THAN 2#
PULL #5	2.50	2.37	2.12	2.50	
TOTAL	12.08	12.00	11.30		
AVG.	2.416	2.4	2.26		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.36	3.31		
PULL #2	3.34	3.31		
PULL #3	3.55	3.28		
PULL #4	3.46	3.38		
PULL #5	3.45	3.38		
TOTAL	17.16	16.66		
AVG.	3.432	3.332		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.12	4.30		4.50
PULL #2	4.45	4.23		4.17
PULL #3	4.10	4.37		4.20
PULL #4	4.48	4.37		4.17
PULL #5	4.37	4.34		4.24
TOTAL	21.52	21.61		21.28
AVG.	4.304	4.322		4.256

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6498762
24 May 1990

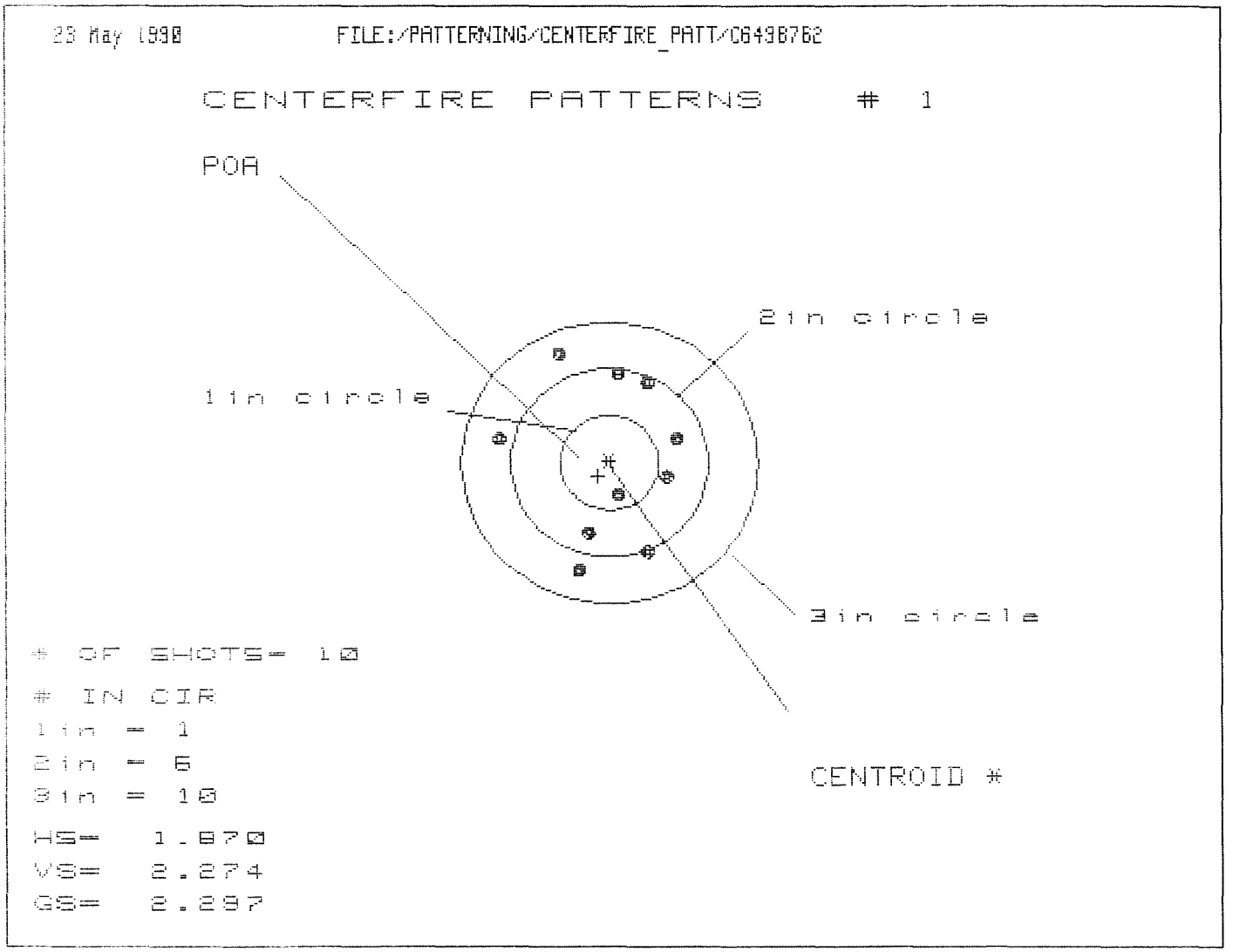
CENTROIDAL DISTANCES

0	TO	1	.182099
1	TO	2	.461088
1	TO	3	.400476
1	TO	4	.244965
1	TO	5	.192837

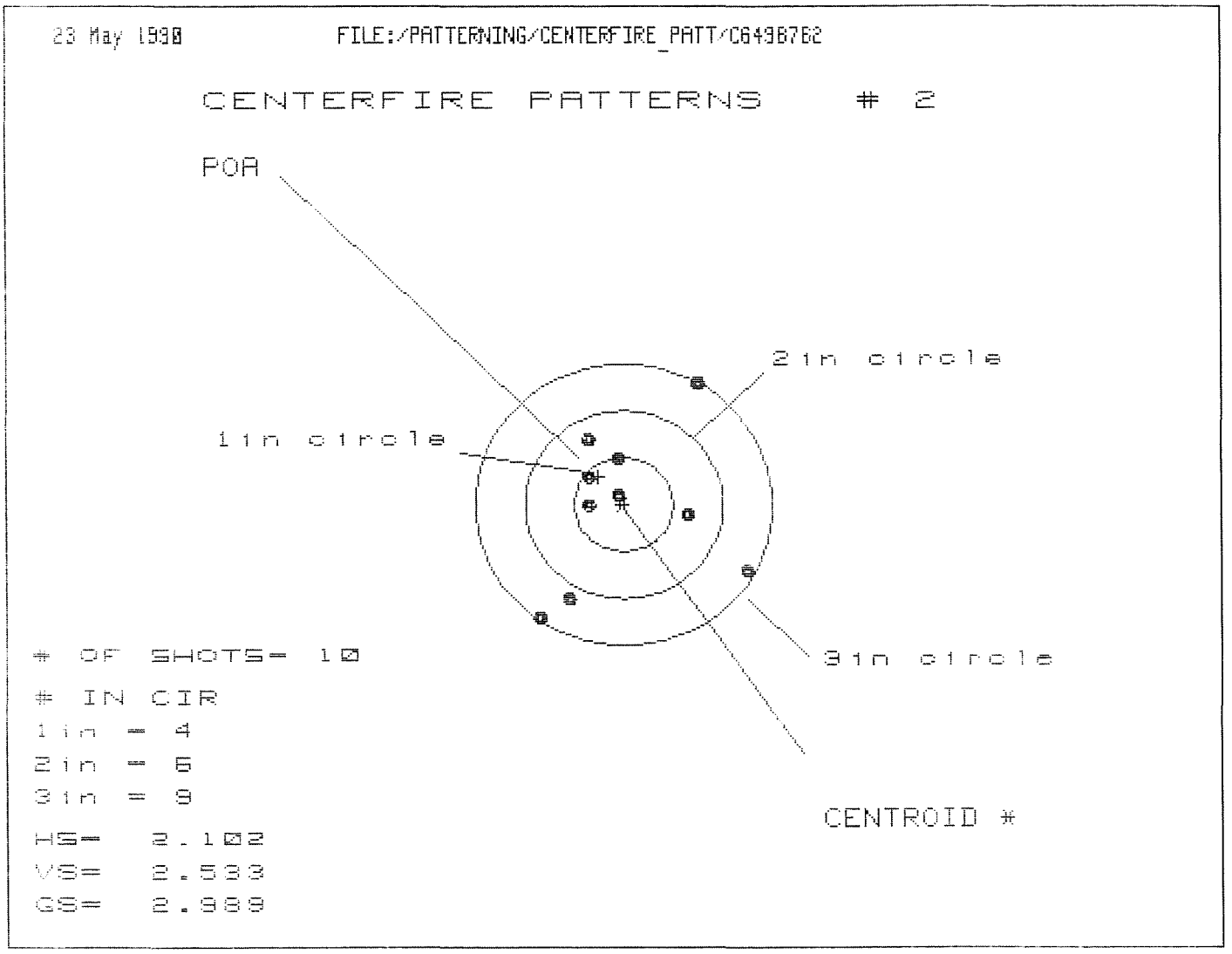
<----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1052
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1082
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .150911

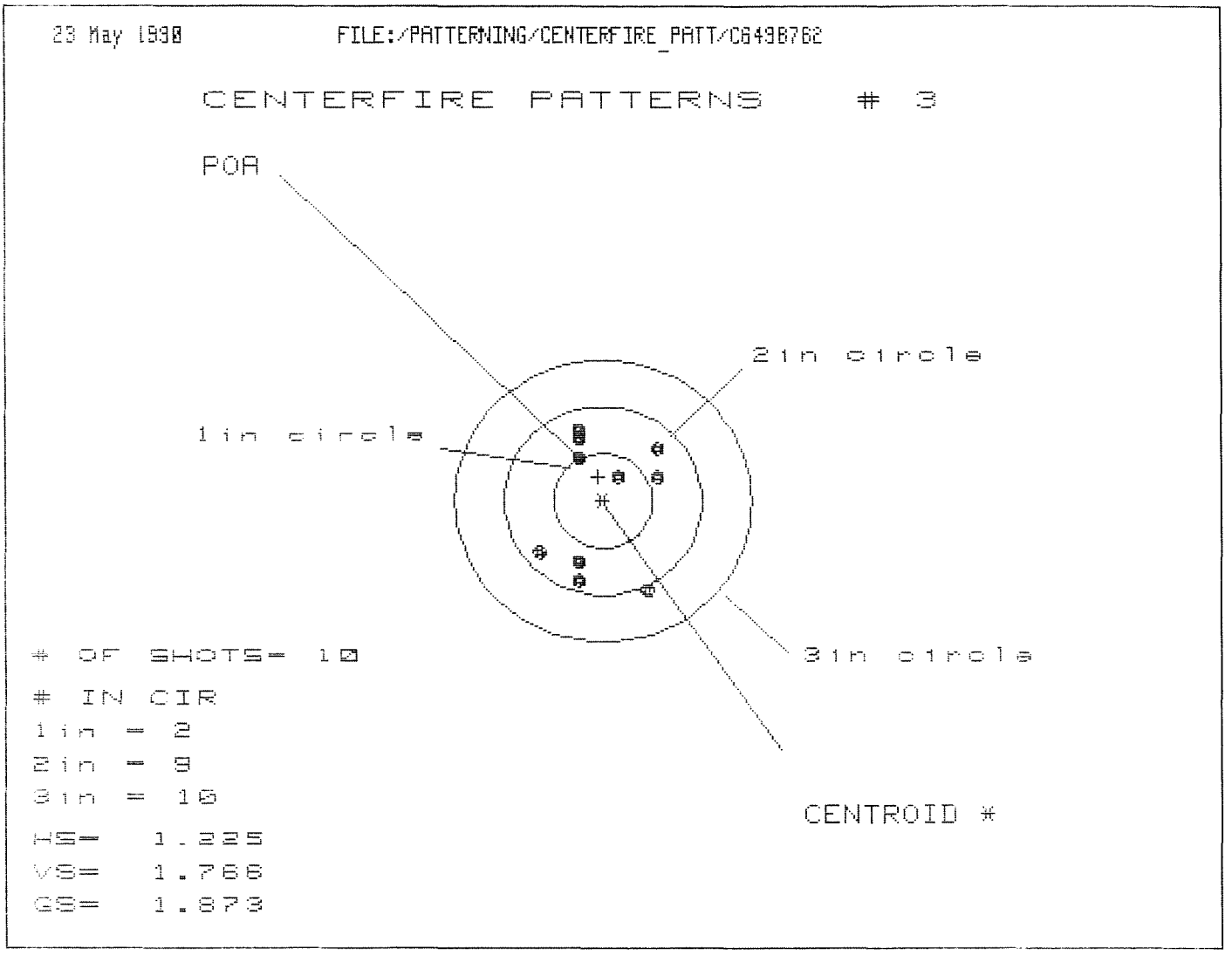
THE AMR FOR THIS RIFLE IS: .8068



PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.729	.677	.626
MINIMUM X	:	-1.141	-1.193	-1.244
MAXIMUM Y	:	1.151	1.046	.922
MINIMUM Y	:	-1.123	-.995	-.982
CENTROID X	:	.114	.166	.217
CENTROID Y	:	.142	.014	.138
POA TO CENTROID in.	:	.182	.167	.258
MIN RADIUS	:	.379	.244	.367
MEAN RADIUS	:	.902	.837	.807
MAX RADIUS	:	1.244	1.248	1.267
HORIZONTAL SPREAD	:	1.870	1.870	1.870
VERTICAL SPREAD	:	2.274	2.041	1.904
EXTREME SPREAD	:	2.297	2.100	1.943
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	



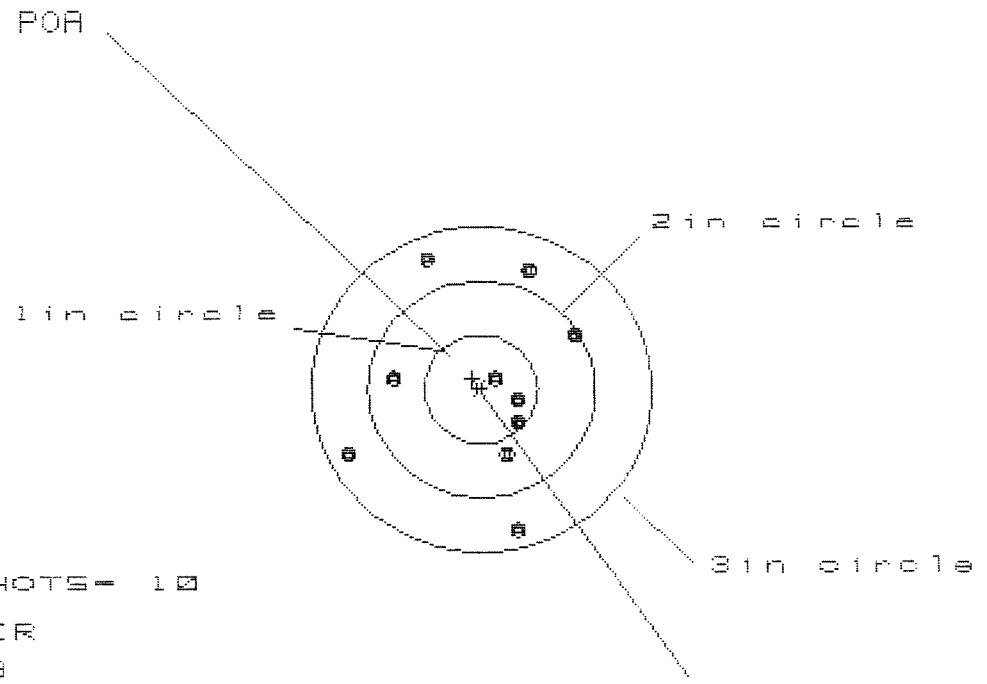
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.257	1.339	1.244
MINIMUM X	:	-.845	-.763	-.572
MAXIMUM Y	:	1.343	.821	.691
MINIMUM Y	:	-1.190	-1.041	-.978
CENTROID X	:	.255	.173	.268
CENTROID Y	:	-.297	-.446	-.316
POA TO CENTROID in.	:	.391	.478	.414
MIN RADIUS	:	.155	.286	.178
MEAN RADIUS	:	.848	.787	.693
MAX RADIUS	:	1.534	1.436	1.402
HORIZONTAL SPREAD	:	2.102	2.102	1.816
VERTICAL SPREAD	:	2.533	1.862	1.669
EXTREME SPREAD	:	2.989	2.166	2.128
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	



PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.591	.637	.615
MINIMUM X	:	-.634	-.588	-.610
MAXIMUM Y	:	.796	.688	.572
MINIMUM Y	:	-.970	-.929	-.827
CENTROID X	:	.048	.002	.024
CENTROID Y	:	-.253	-.145	-.029
POA TO CENTROID in.	:	.257	.145	.037
MIN RADIUS	:	.300	.269	.219
MEAN RADIUS	:	.702	.642	.574
MAX RADIUS	:	1.053	.945	.946
HORIZONTAL SPREAD	:	1.225	1.225	1.225
VERTICAL SPREAD	:	1.766	1.617	1.399
EXTREME SPREAD	:	1.873	1.617	1.588
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

23 May 1990 FILE:/PATTERNING/CENTERFIRE_PATT/C643B762

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

# IN CIR
1in = 3
2in = 6
3in = 10

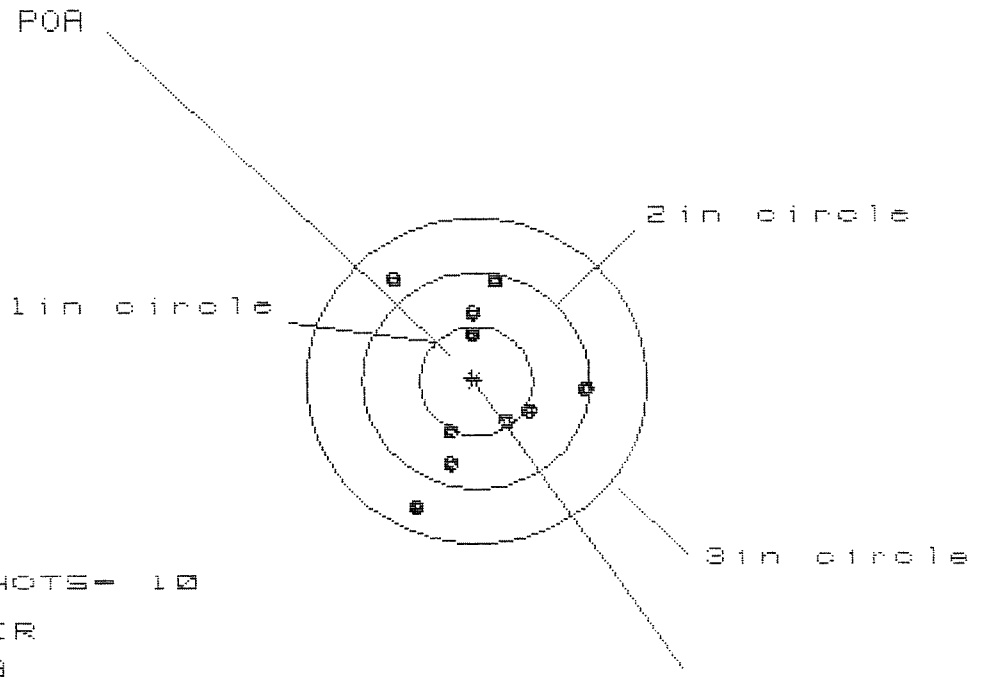
HS= 1.942
VS= 2.438
GS= 2.541

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.782	.653	.672
MINIMUM X	:	-1.160	-.866	-.847
MAXIMUM Y	:	1.174	1.105	.938
MINIMUM Y	:	-1.264	-1.333	-.815
CENTROID X	:	.076	.205	.186
CENTROID Y	:	-.100	-.031	.136
POA TO CENTROID in.	:	.126	.207	.230
MIN RADIUS	:	.113	.036	.173
MEAN RADIUS	:	.820	.744	.700
MAX RADIUS	:	1.318	1.342	1.086
HORIZONTAL SPREAD	:	1.942	1.519	1.519
VERTICAL SPREAD	:	2.438	2.438	1.753
EXTREME SPREAD	:	2.541	2.541	1.863

NUMBER IN ONE INCH CIRCLE = 3
NUMBER IN TWO INCH CIRCLE = 6
NUMBER IN THREE INCH CIRCLE = 10

23 May 1998 FILE:/PATTERNING/CENTERFIRE_PATT/C6436762

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

# IN CIR
1in = 3
2in = 8
3in = 10

HS= 1.666
VS= 2.094
GS= 2.193

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.974	.918	.825
MINIMUM X	:	-.692	-.748	-.428
MAXIMUM Y	:	.935	.807	.905
MINIMUM Y	:	-1.159	-.855	-.757
CENTROID X	:	.033	.089	.182
CENTROID Y	:	-.033	.095	-.003
POA TO CENTROID in.	:	.047	.130	.182
MIN RADIUS	:	.408	.315	.378
MEAN RADIUS	:	.762	.698	.636
MAX RADIUS	:	1.262	1.089	.906
HORIZONTAL SPREAD	:	1.666	1.666	1.253
VERTICAL SPREAD	:	2.094	1.662	1.662
EXTREME SPREAD	:	2.193	1.925	1.710
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	