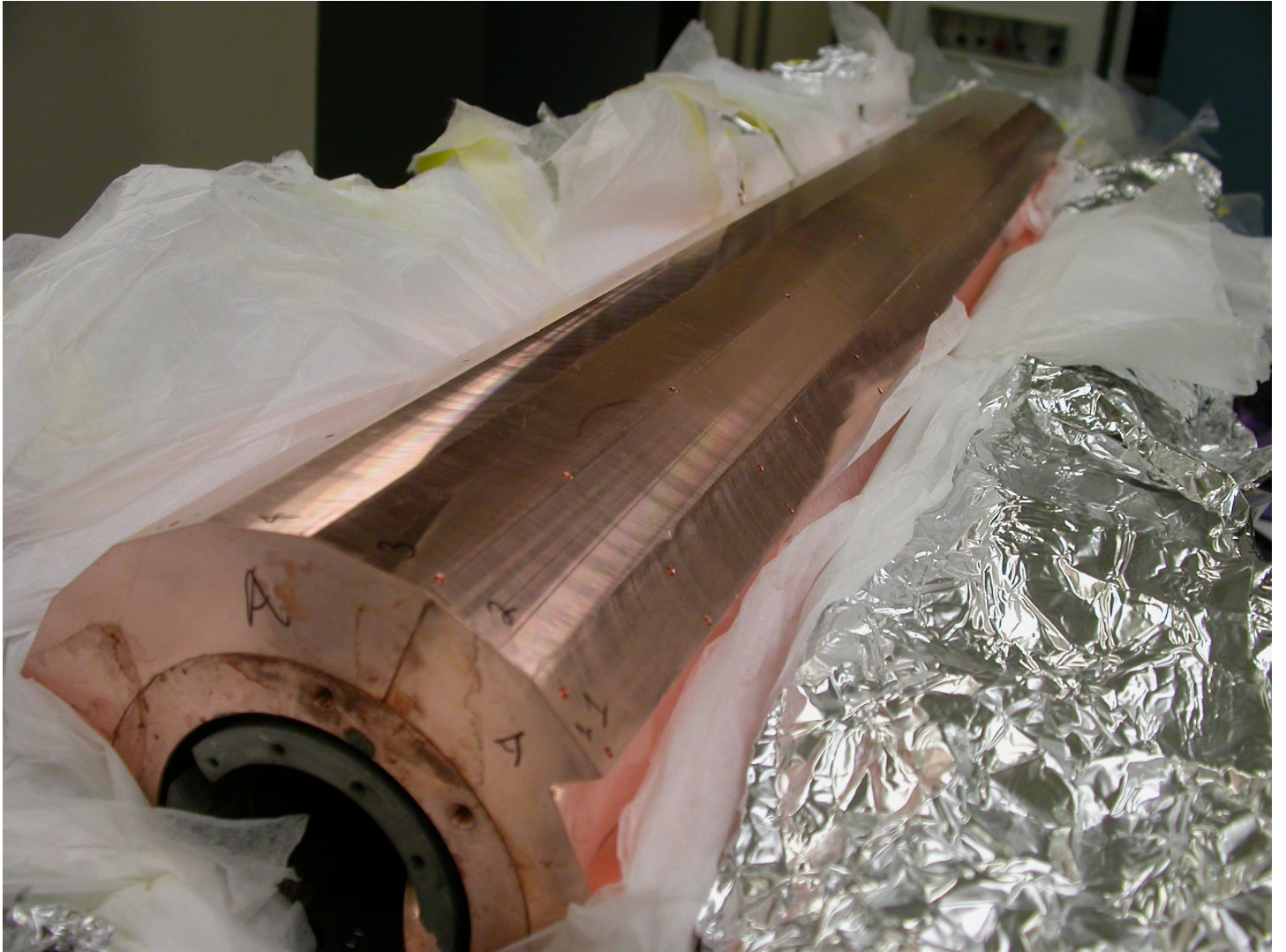


A-Side

B-Side





Quindos Measuring Report



3D-Application Center

Description	LHC ROT. COLLIMATOR	Customer	S. Lundgren/R. Rogers
Drawing Number	N/A	Serial Number	001
Remarks		Article Number	
Supplier	MFD	Delivery Date	
Delivery Note		Delivery Volume	
Lot Number		Lot Size	
Test Schedule		Sample Size	
Production Machine		Production Tool	
Production Date		Production Time	
Order	1110930	Department	
Inspector	kcaban	Inspection Date	13-NOV-2008, 07:54:27
Measuring Device	PMM 12 10 6	Measuring Program	Quindos7 - V 7.01.8086-
User Name	kcaban	WKP Name	LARP_COLL

Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
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PLANE			PLA				
	FORM	0.00169	0.00000	0.00100	0.00000	0.00169	

JAW_DIST			AXI				
! -----	Jaw distance @ 35" from end						
	DY	5.32698					

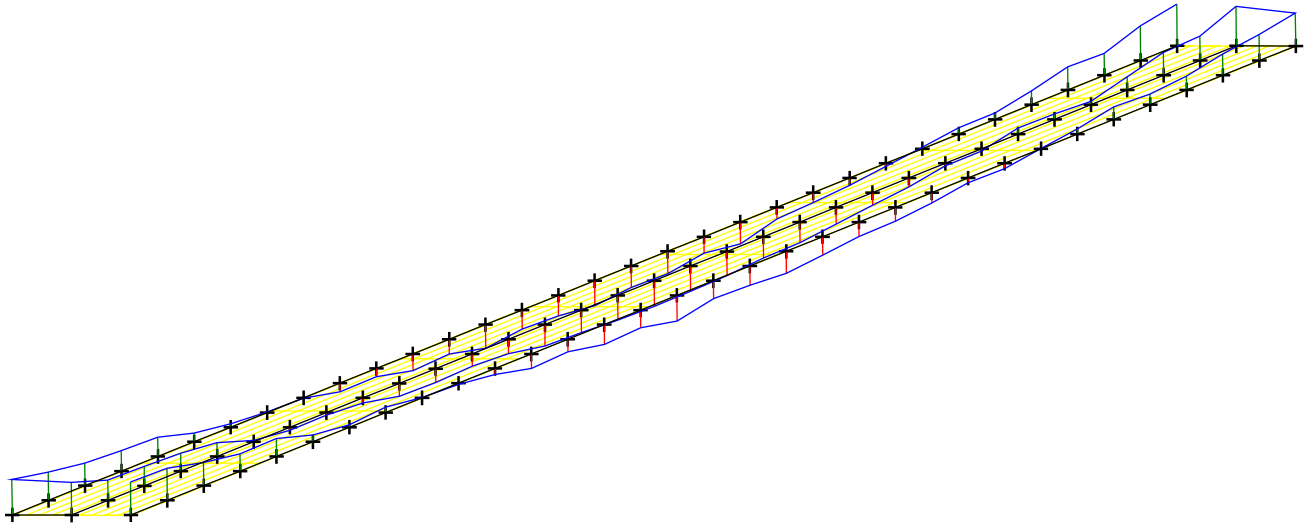
JAW_DIST(2)			AXI				
! -----	Jaw distance @ 18" from end						
	DY	5.32531					

JAW_DIST(3)			AXI				
! -----	Jaw distance @ 2" from end						
	DY	5.33068					

PT(1)			POI				
! -----	B SIDE POS						
	Z	-1.44868					

PT(2)			POI				
! -----	A SIDE POS						
	Z	-1.45274					

Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
Date: 13-Nov-08, 07:54:27				LARP_COLL			Page 1 of 1



0.00282
Inch

Actual points : * * *

Neg. Deviation : ————

Pos. Deviation : ————

Notation : LHC ROT. COLLIM

Producer : S. Lundgren/R.

Draw. No. : N/A

Ser. No. : 001

Part No. :

Department:

Element : PLANE

			X	Y	Z	No.	
Form	0.0017	Neg. Deviat.:	-0.0006	17.2035	-0.2999	0.0968	16
Error Magnif.:	200	Pos. Deviat.:	0.0010	35.0002	0.2999	0.0983	99
No. of points:	99						

MESSTECHNIK WETZLAR

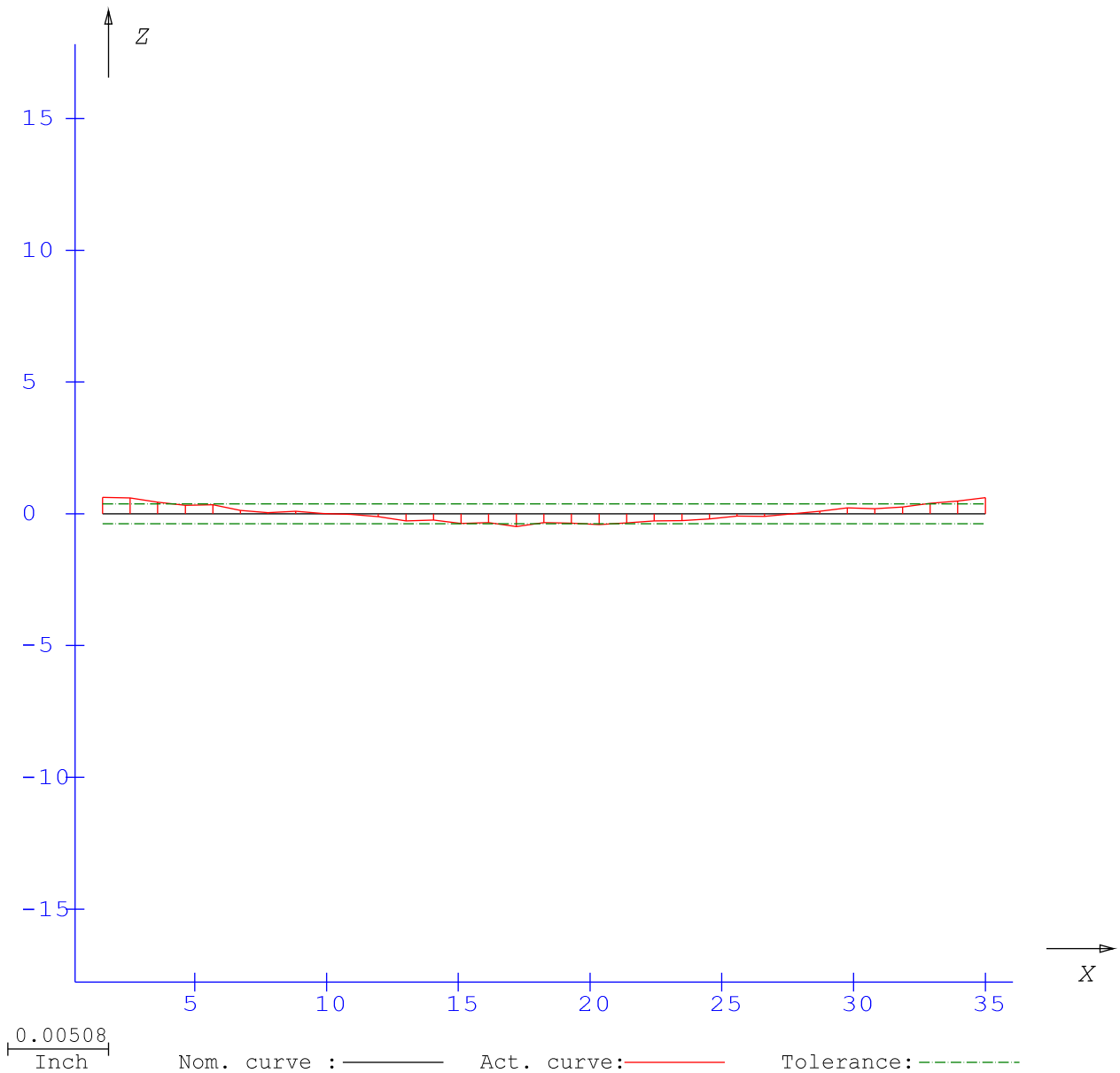


FLATNESS
ISO 1101

Inspector :kcaban

Date:13-NOV-2008

Time:07:54:27



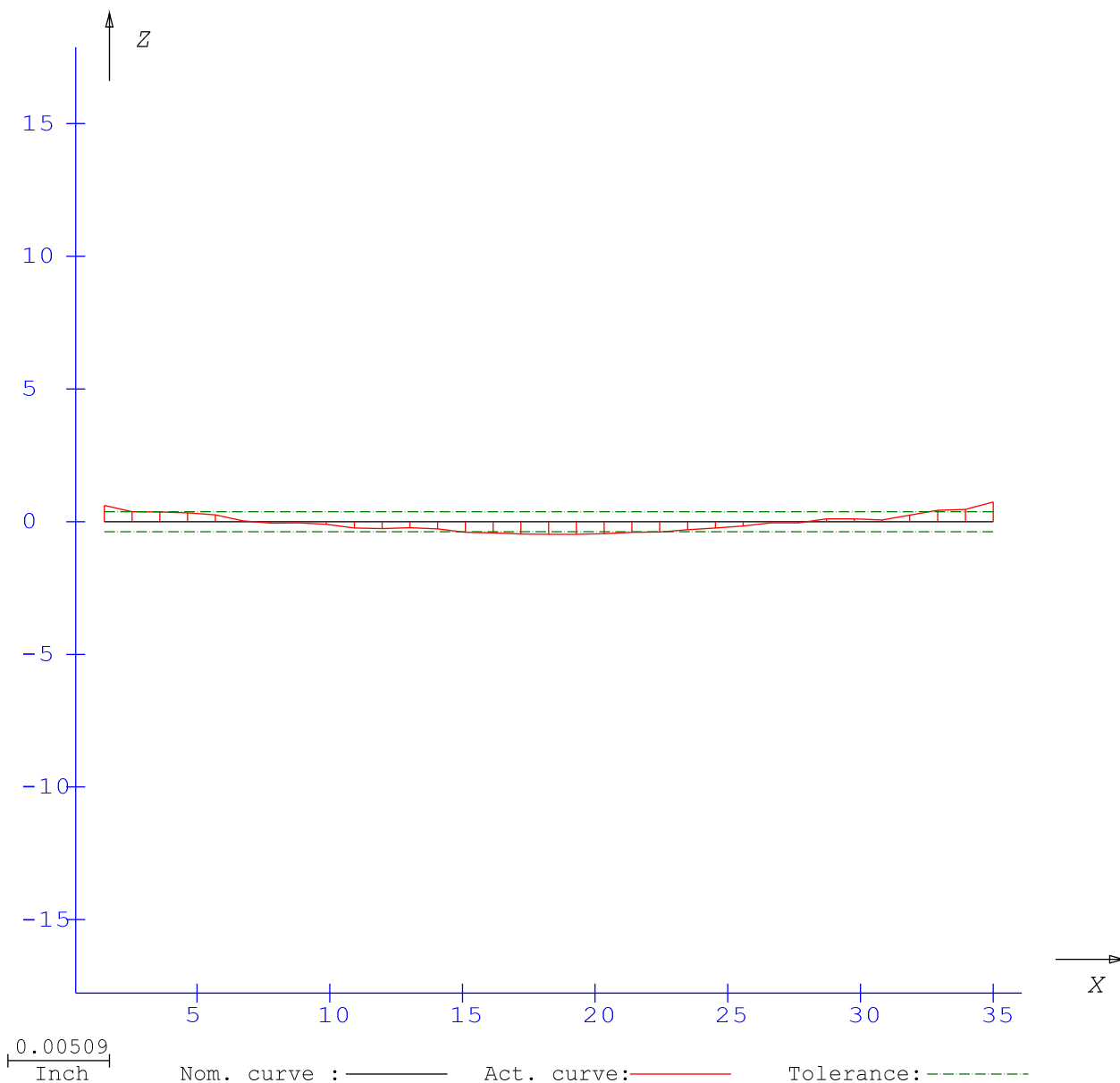
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 001 Part No. : Department:
 Element : ACNO(1)

	X	Y	Z	Nr.		
Form	0.00147	Min. Deviat.:-0.00082	1.50000	-0.30000	0.00000	1
Lower Toler. :-0.00050	Max. Deviat.:	0.00064	17.20313	-0.30000	0.00000	16
Upper Toler. : 0.00050						
Error Magnif.:	750					
No. of points:	33					



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:07:54:27



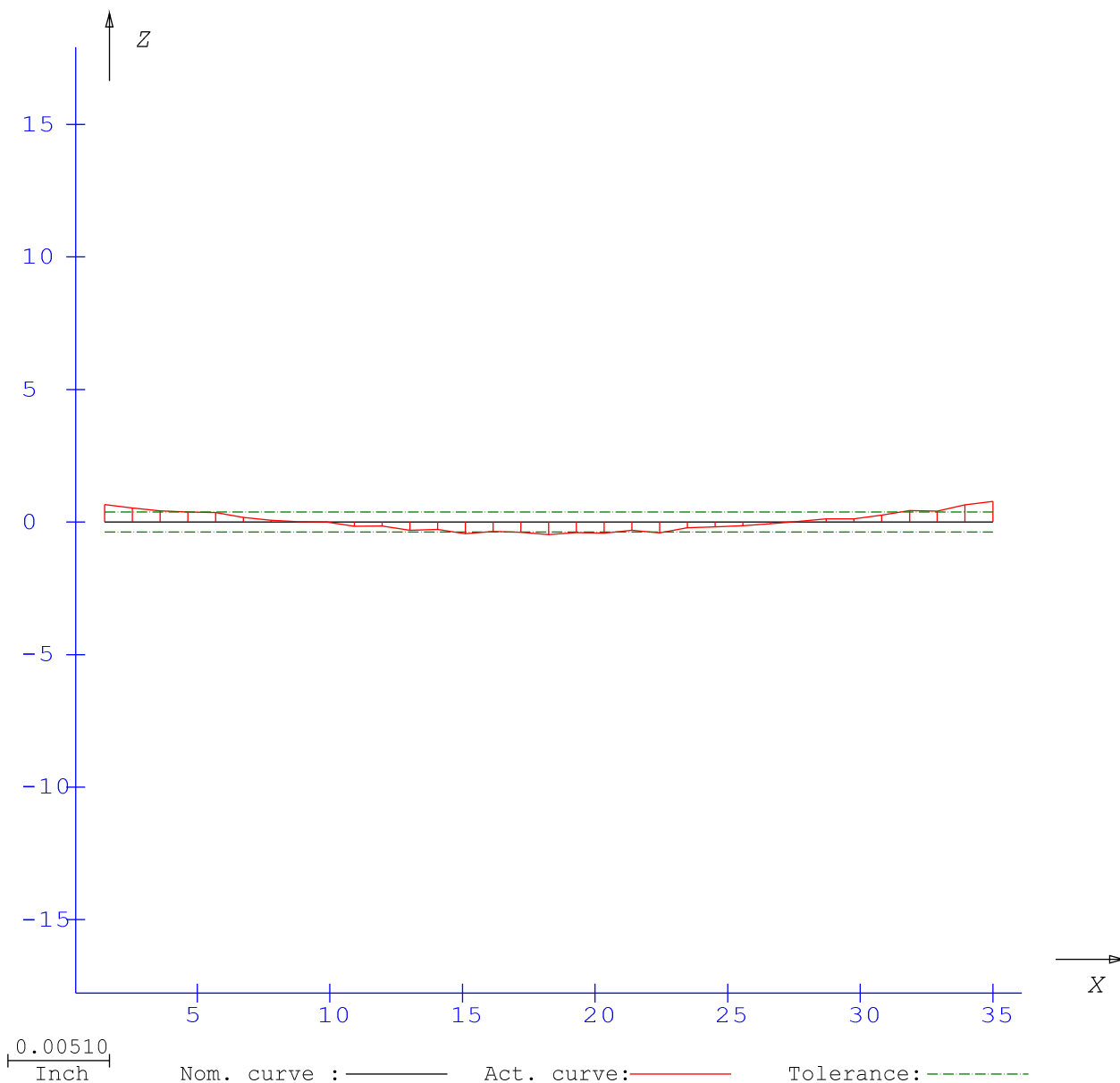
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 001 Part No. : Department:
 Element : ACNO(2)

		X	Y	Z	Nr.		
Form	0.00163	Min. Deviat.:-0.00098	35.00000	0.00000	0.00000	33	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00064	18.25000	0.00000	0.00000	17
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:07:54:27



Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 001 Part No. : Department:
 Element : ACNO(3)

		X	Y	Z	Nr.	
Form	0.00167	Min. Deviat.:-0.00104	35.00000	0.30000	0.00000	33
Lower Toler. :	-0.00050	Max. Deviat.: 0.00062	18.25000	0.30000	0.00000	17
Upper Toler. :	0.00050					
Error Magnif.:	750					
No. of points:	33					



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:07:54:27

Quindos Measuring Report



3D-Application Center

Description	LHC ROT. COLLIMATOR	Customer	S. Lundgren/R. Rogers
Drawing Number	N/A	Serial Number	005
Remarks		Article Number	
Supplier	MFD	Delivery Date	
Delivery Note		Delivery Volume	
Lot Number		Lot Size	
Test Schedule		Sample Size	
Production Machine		Production Tool	
Production Date		Production Time	
Order	1110930	Department	
Inspector	kcaban	Inspection Date	13-NOV-2008, 09:27:51
Measuring Device	PMM 12 10 6	Measuring Program	Quindos7 - V 7.01.8086-
User Name	kcaban	WKP Name	LARP_COLL


Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
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FACET_DIST AXI

! ----- Facet Distance/width

DY 0.84311

PLANE PLA

FORM 0.00127 0.00000 0.00100 0.00000 0.00127 

PT(1) POI

! ----- B SIDE POS

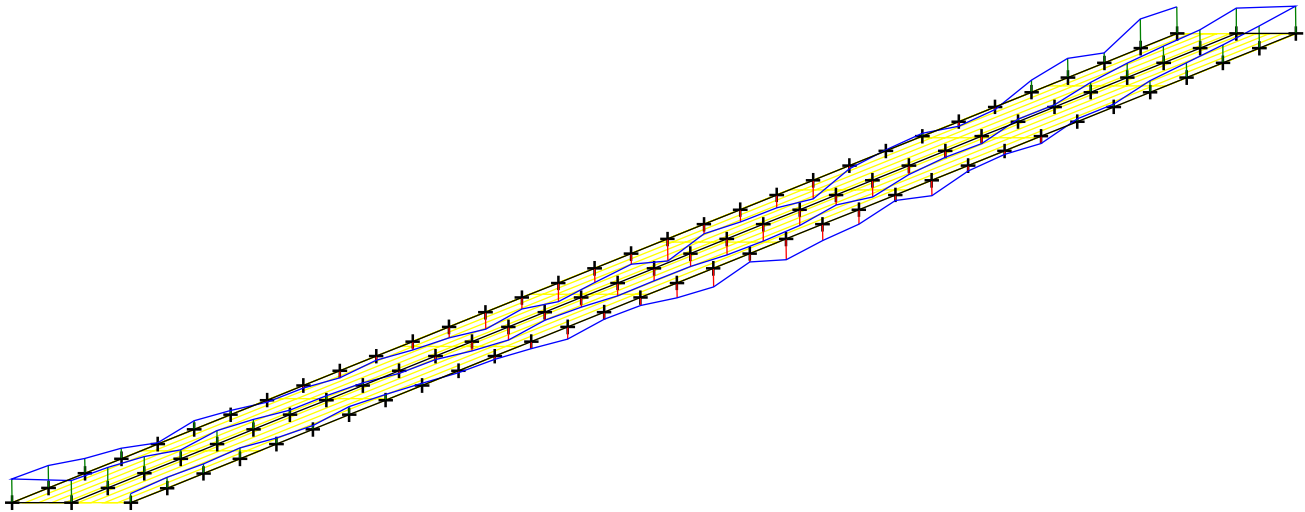
Z -1.45052

PT(2) POI

! ----- A SIDE POS

Z -1.45192

Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
Date: 13-Nov-08, 09:27:51				LARP_COLL			Page 1 of 1



0.00282
Inch

Actual points : * * *

Neg. Deviation : ———

Pos. Deviation : ———

Notation : LHC ROT. COLLIM

Producer : S. Lundgren/R.

Draw. No. : N/A

Ser. No. : 005

Part No. :

Department:

Element : PLANE

			X	Y	Z	No.	
Form	0.0013	Neg. Deviat.:	-0.0005	20.3441	0.3001	0.0971	85
Error Magnif.:	200	Pos. Deviat.:	0.0007	33.9533	0.3000	0.0982	98
No. of points:	99						

MESSTECHNIK WETZLAR

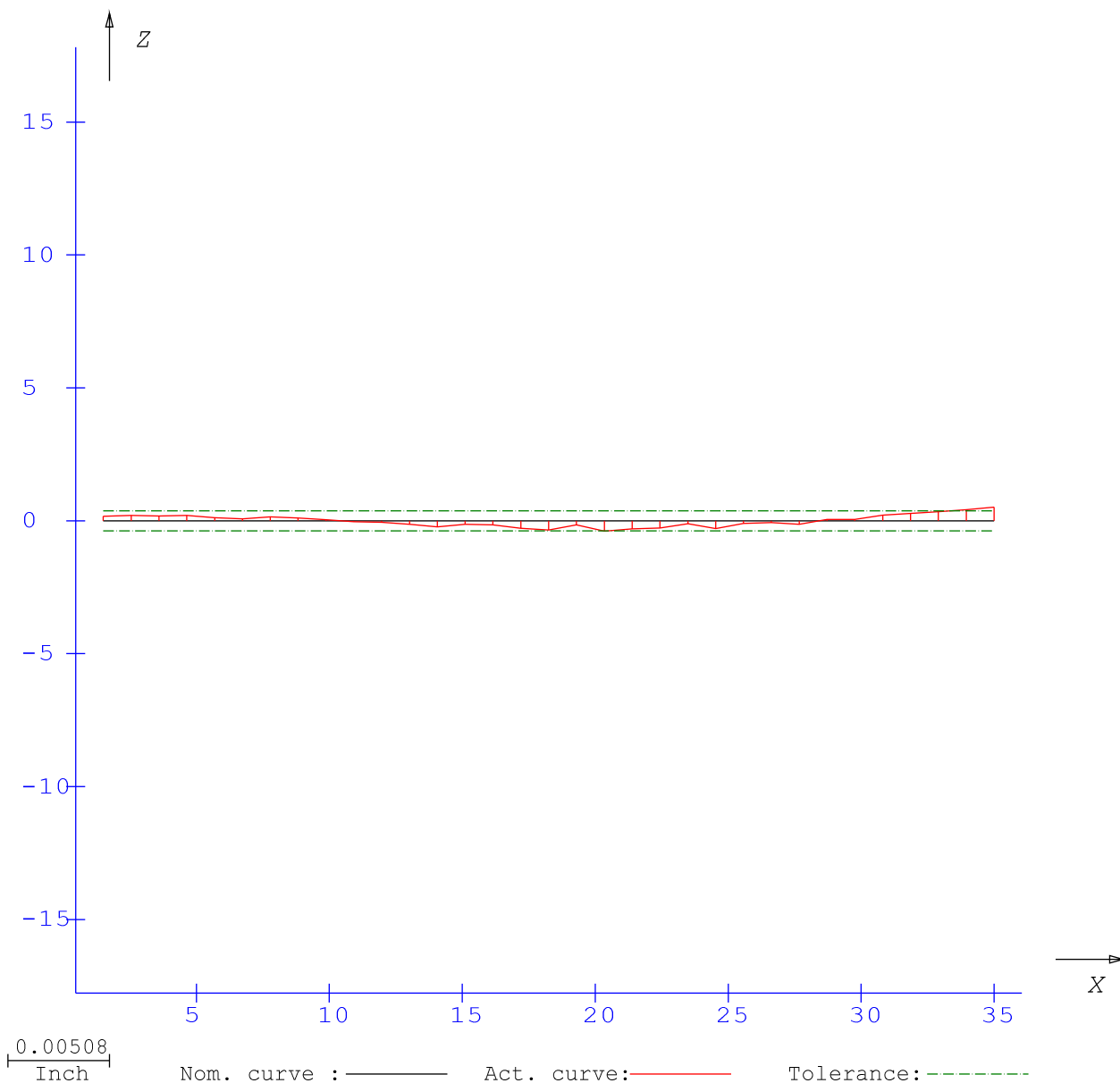


FLATNESS
ISO 1101

Inspector :kcaban

Date:13-NOV-2008

Time:09:27:51



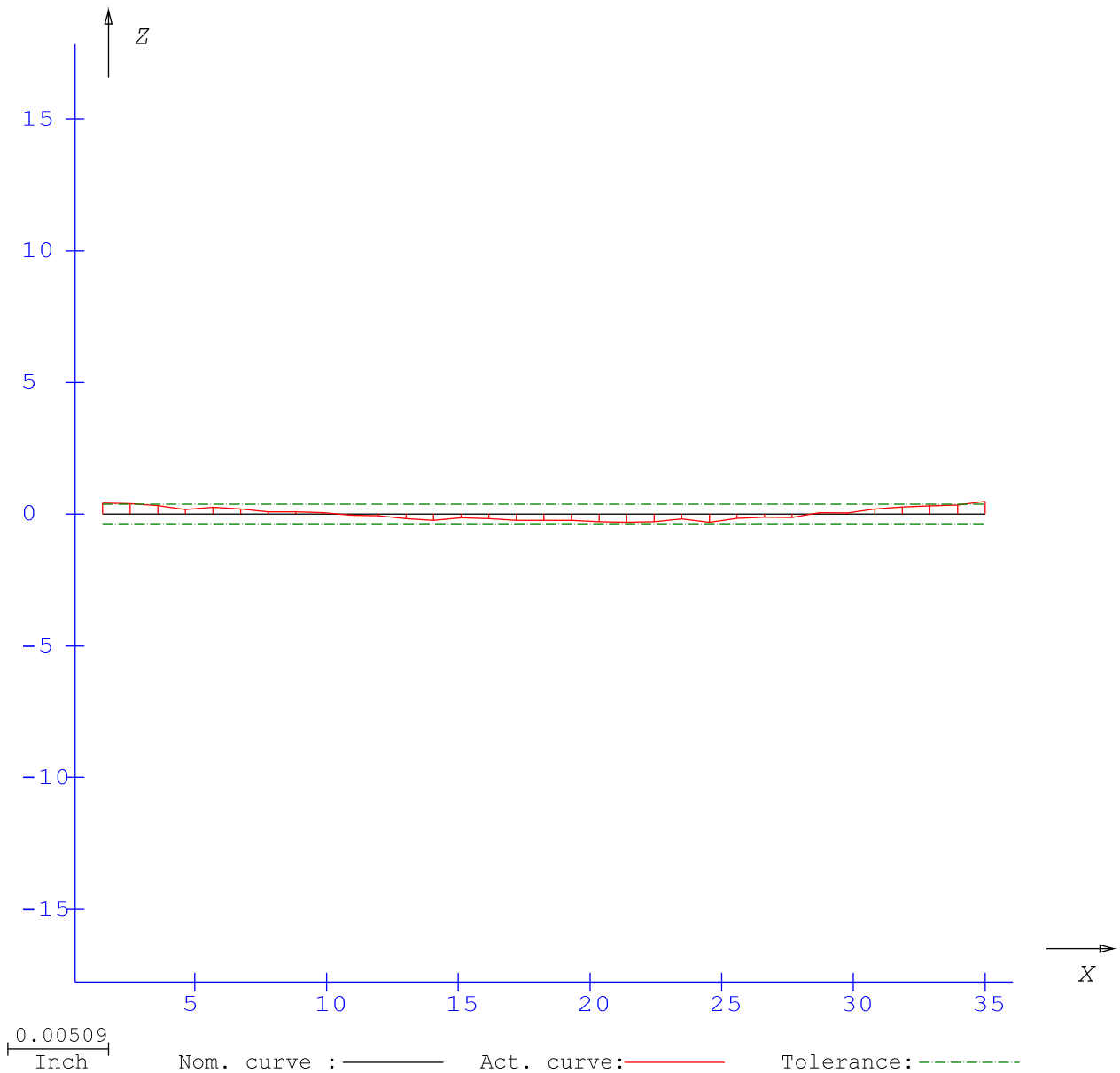
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 005 Part No. : Department:
 Element : ACNO(1)

		X	Y	Z	Nr.		
Form	0.00119	Min. Deviat.:-0.00068	35.00000	-0.30000	0.00000	33	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00052	20.34375	-0.30000	0.00000	19
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:09:27:51



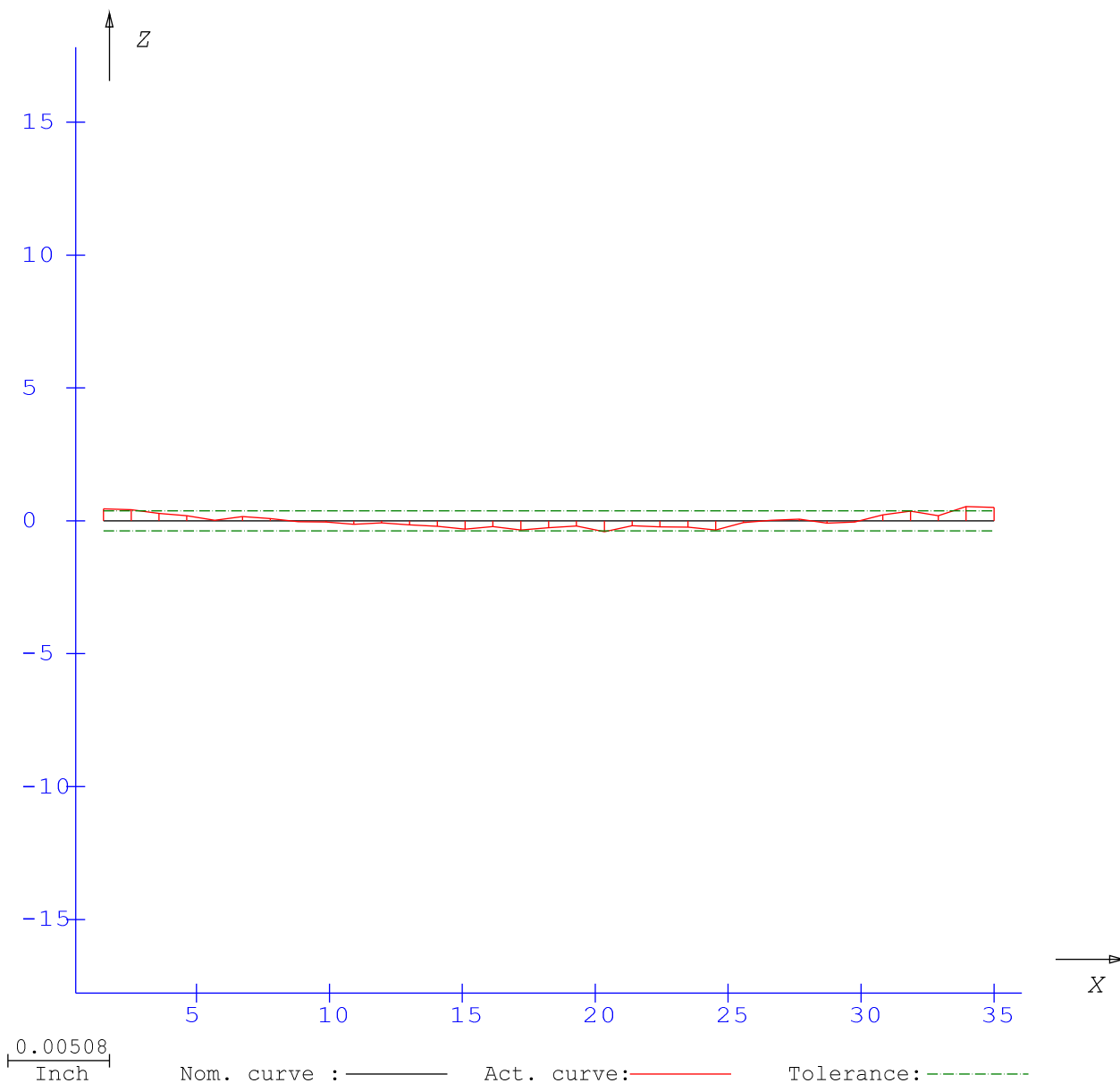
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 005 Part No. : Department:
 Element : ACNO(2)

		X	Y	Z	Nr.		
Form	0.00106	Min. Deviat.:-0.00064	35.00000	0.00000	0.00000	33	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00042	21.39063	0.00000	0.00000	20
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:09:27:51



Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 005 Part No. : Department:
 Element : ACNO(3)

	X	Y	Z	Nr.			
Form	0.00127	Min. Deviat.:-0.00072	33.95313	0.30000	0.00000	32	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00055	20.34375	0.30000	0.00000	19
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:09:27:51

Quindos Measuring Report



3D-Application Center

Description	LHC ROT. COLLIMATOR	Customer	S. Lundgren/R. Rogers
Drawing Number	N/A	Serial Number	008
Remarks		Article Number	
Supplier	MFD	Delivery Date	
Delivery Note		Delivery Volume	
Lot Number		Lot Size	
Test Schedule		Sample Size	
Production Machine		Production Tool	
Production Date		Production Time	
Order	1110930	Department	
Inspector	kcaban	Inspection Date	13-NOV-2008, 10:17:41
Measuring Device	PMM 12 10 6	Measuring Program	Quindos7 - V 7.01.8086-
User Name	kcaban	WKP Name	LARP_COLL


Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
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FACET_DIST AXI

! ----- Facet Distance/width

DY 0.82457

PLANE PLA

FORM 0.00098 0.00000 0.00100 0.00000 0.00098 

PT(1) POI

! ----- B SIDE POS

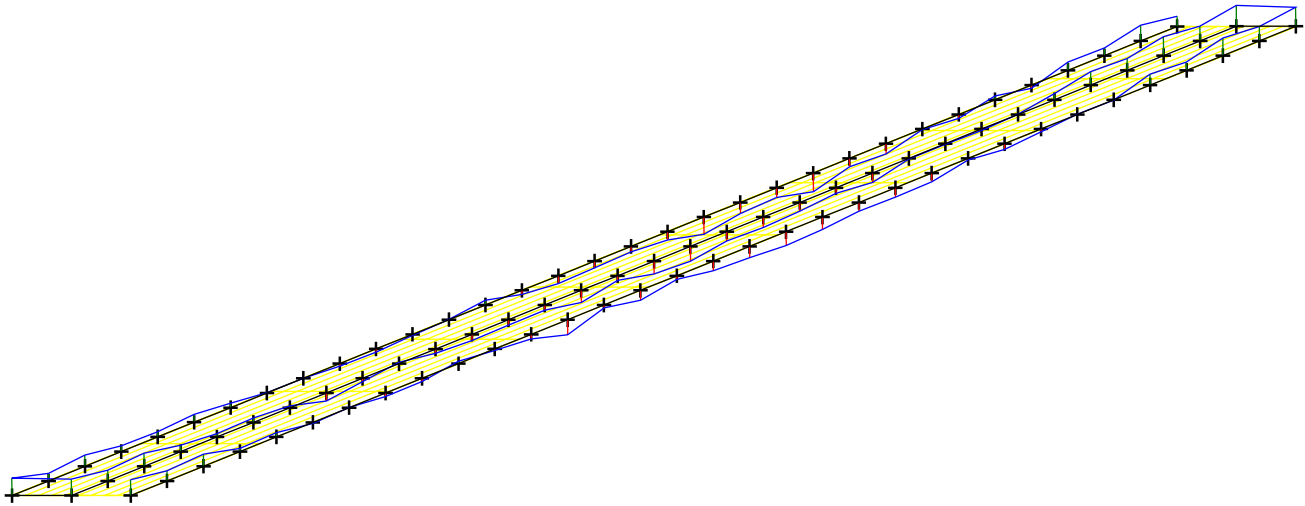
Z -1.45356

PT(2) POI

! ----- A SIDE POS

Z -1.45419

Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
Date: 13-Nov-08, 10:17:41				LARP_COLL			Page 1 of 1



0.00282
Inch

Actual points : * * *

Neg. Deviation : ————

Pos. Deviation : ————

Notation : LHC ROT. COLLIM

Producer : S. Lundgren/R.

Draw. No. : N/A

Ser. No. : 008

Part No. :

Department:

Element : PLANE

			X	Y	Z	No.	
Form	0.0010	Neg. Deviat.:	-0.0005	24.5315	0.2998	0.0974	89
Error Magnif.:	200	Pos. Deviat.:	0.0005	35.0002	-0.0001	0.0983	34
No. of points:	99						

MESSTECHNIK WETZLAR

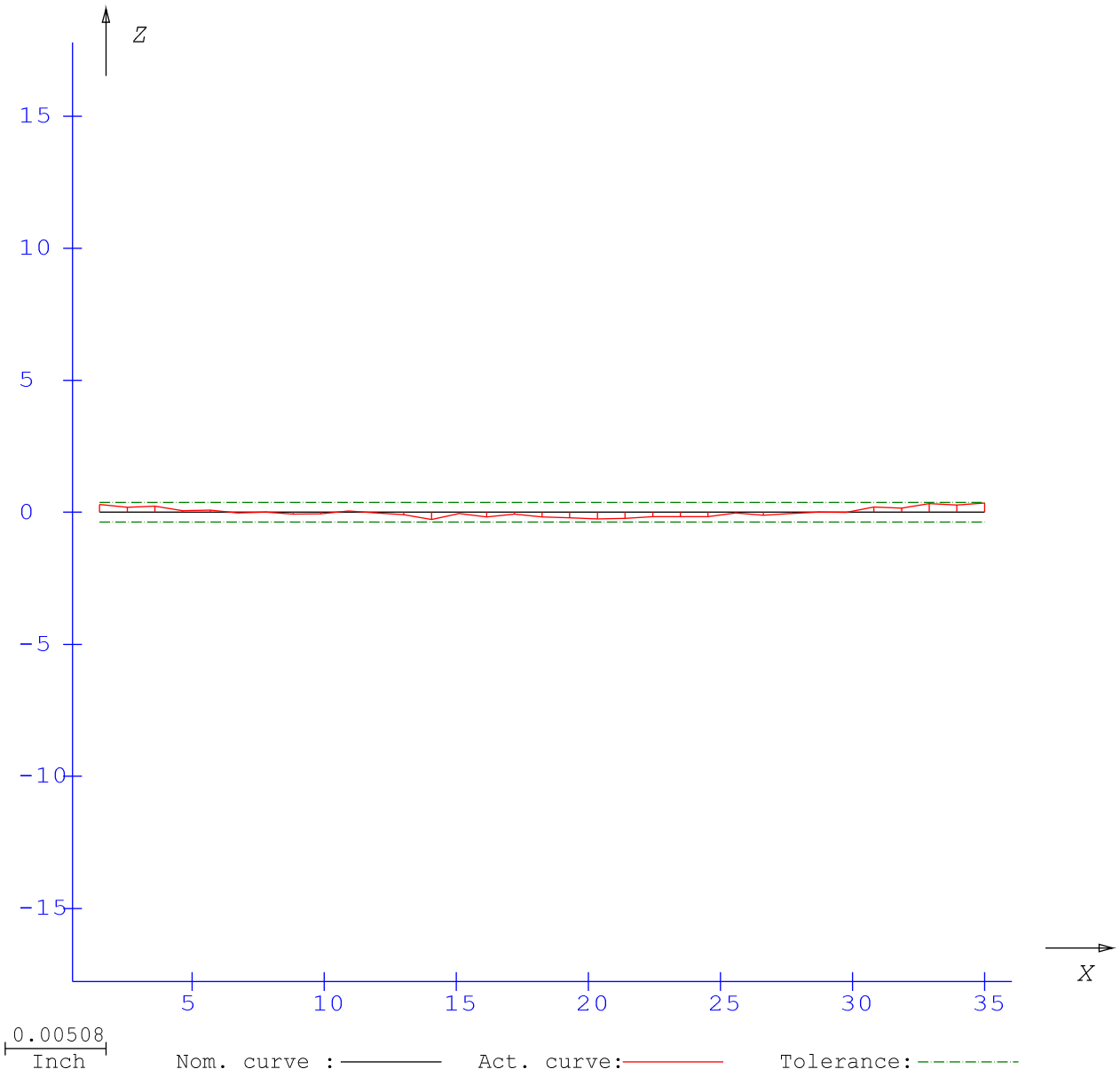


FLATNESS
ISO 1101

Inspector :kcaban

Date:13-NOV-2008

Time:10:17:41



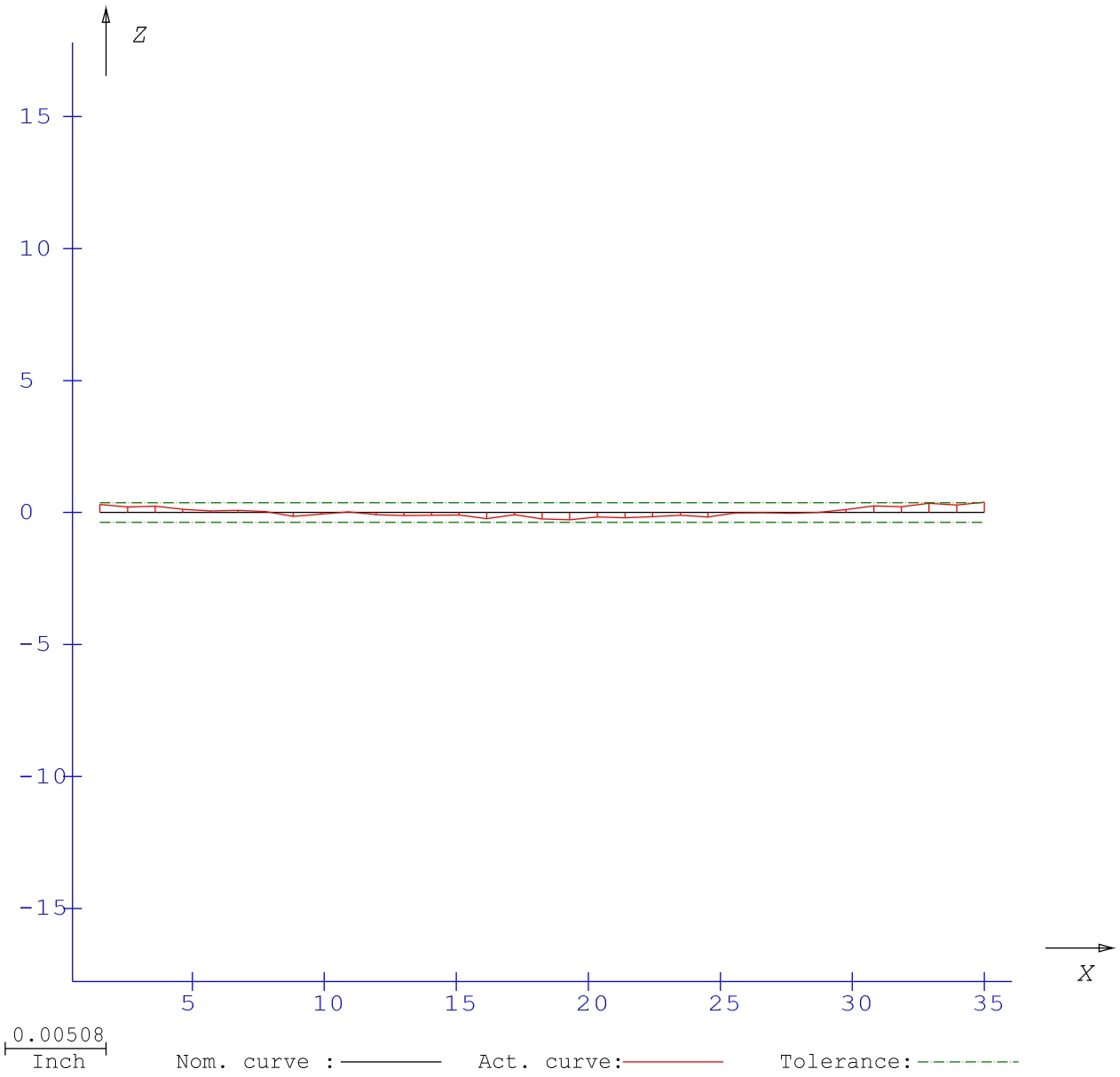
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 008 Part No. : Department:
 Element : ACNO(1)

	X	Y	Z	Nr.			
Form	0.00084	Min. Deviat.:-0.00047	35.00000	-0.30000	0.00000	33	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00037	14.06250	-0.30000	0.00000	13
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:10:17:41



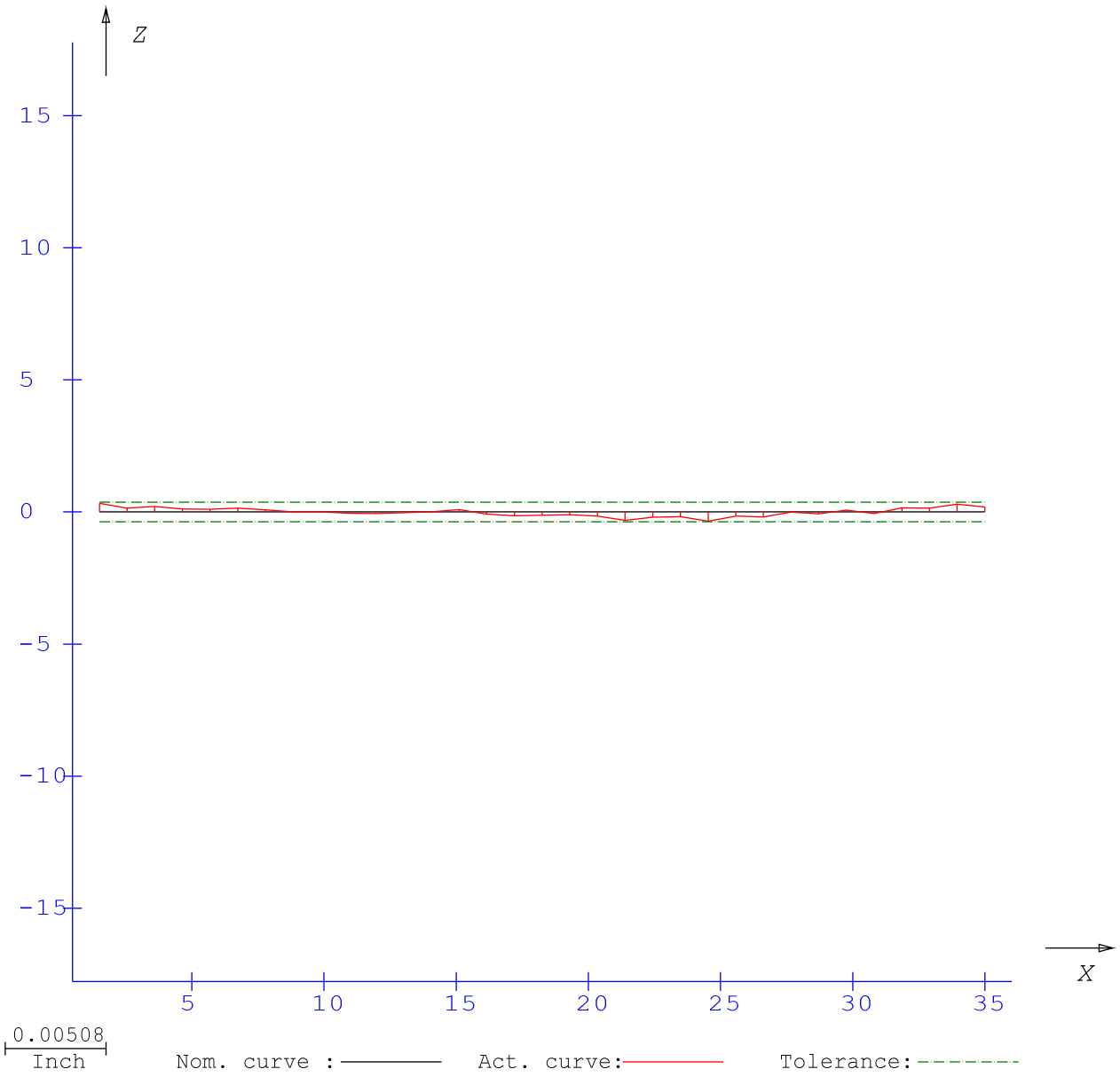
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 008 Part No. : Department:
 Element : ACNO(2)

		X	Y	Z	Nr.		
Form	0.00089	Min. Deviat.:-0.00052	35.00000	0.00000	0.00000	33	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00037	19.29688	0.00000	0.00000	18
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:10:17:41



Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 008 Part No. : Department:
 Element : ACNO(3)

		X	Y	Z	Nr.		
Form	0.00090	Min. Deviat.:-0.00043	1.50000	0.30000	0.00000	1	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00046	24.53125	0.30000	0.00000	23
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:10:17:41

Quindos Measuring Report



3D-Application Center

Description	LHC ROT. COLLIMATOR	Customer	S. Lundgren/R. Rogers
Drawing Number	N/A	Serial Number	013
Remarks		Article Number	
Supplier	MFD	Delivery Date	
Delivery Note		Delivery Volume	
Lot Number		Lot Size	
Test Schedule		Sample Size	
Production Machine		Production Tool	
Production Date		Production Time	
Order	1110930	Department	
Inspector	kcaban	Inspection Date	13-NOV-2008, 10:55:00
Measuring Device	PMM 12 10 6	Measuring Program	Quindos7 - V 7.01.8086-
User Name	kcaban	WKP Name	LARP_COLL


Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
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FACET_DIST AXI

! ----- Facet Distance/width

DY 0.78617

PLANE PLA

FORM 0.00125 0.00000 0.00100 0.00000 0.00125 

PT(1) POI

! ----- B SIDE POS

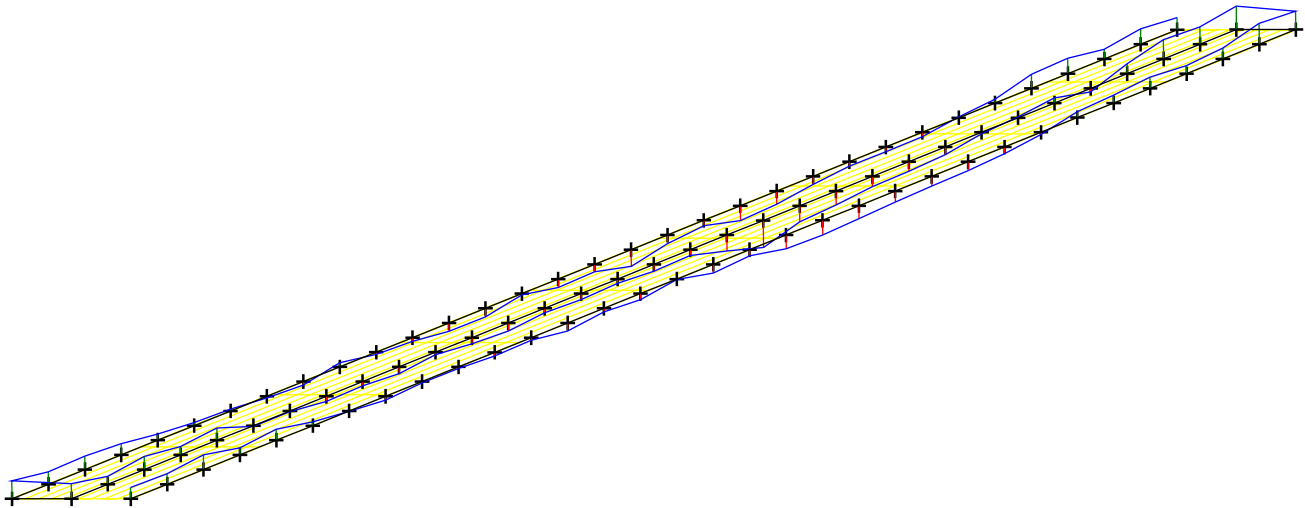
Z -1.45323

PT(2) POI

! ----- A SIDE POS

Z -1.45346

Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
Date: 13-Nov-08, 10:55:00				LARP_COLL			Page 1 of 1



0.00282
Inch

Actual points : * * *

Neg. Deviation : ———

Pos. Deviation : ———

Notation : LHC ROT. COLLIM

Producer : S. Lundgren/R.

Draw. No. : N/A

Ser. No. : 013

Part No. :

Department:

Element : PLANE

			X	Y	Z	No.	
Form	0.0013	Neg. Deviat.:	-0.0007	21.3910	0.0002	0.0973	47
Error Magnif.:	200	Pos. Deviat.:	0.0006	35.0002	0.0000	0.0984	34
No. of points:	99						

MESSTECHNIK WETZLAR

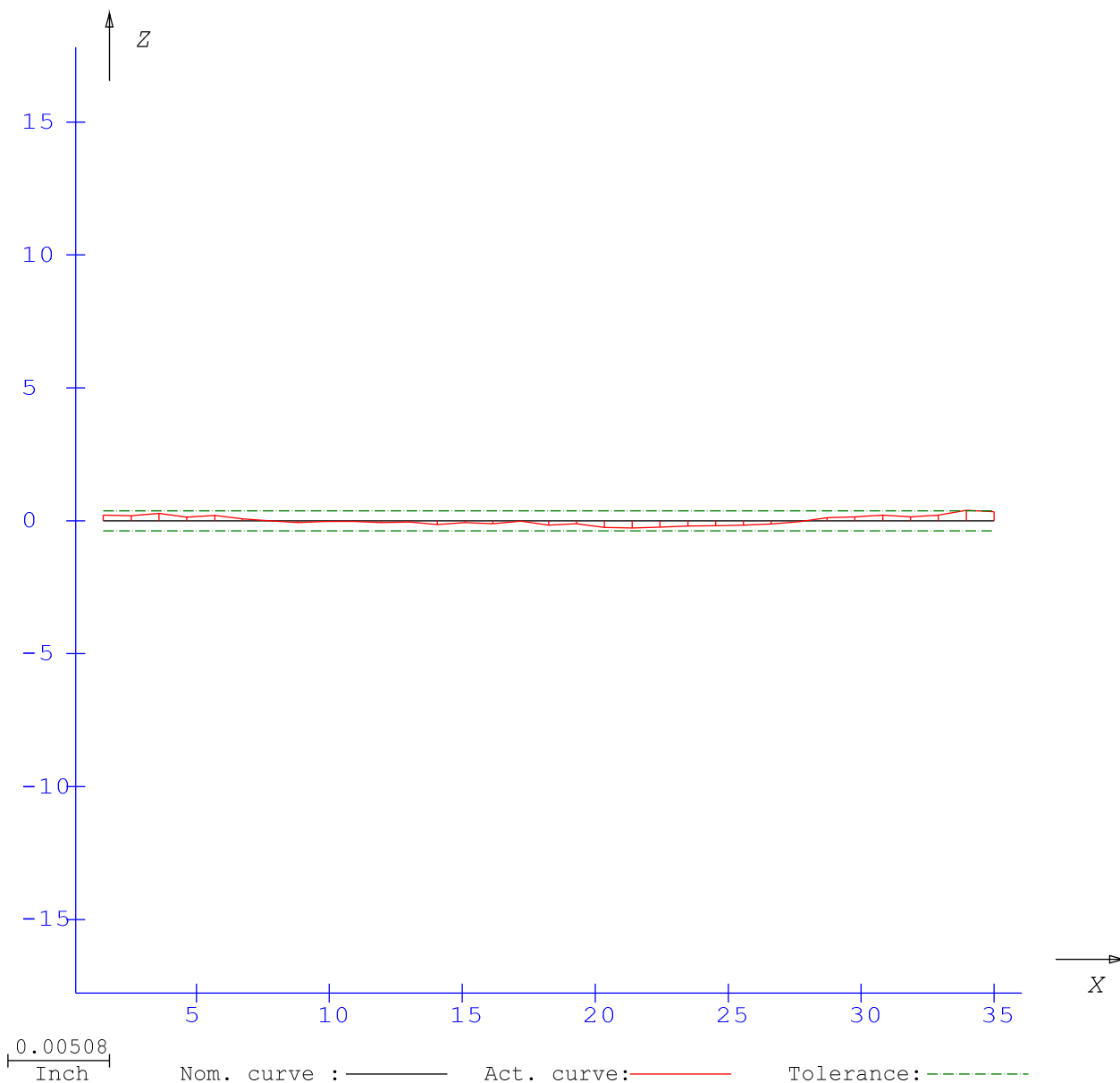


FLATNESS
ISO 1101

Inspector :kcaban

Date:13-NOV-2008

Time:10:55:00



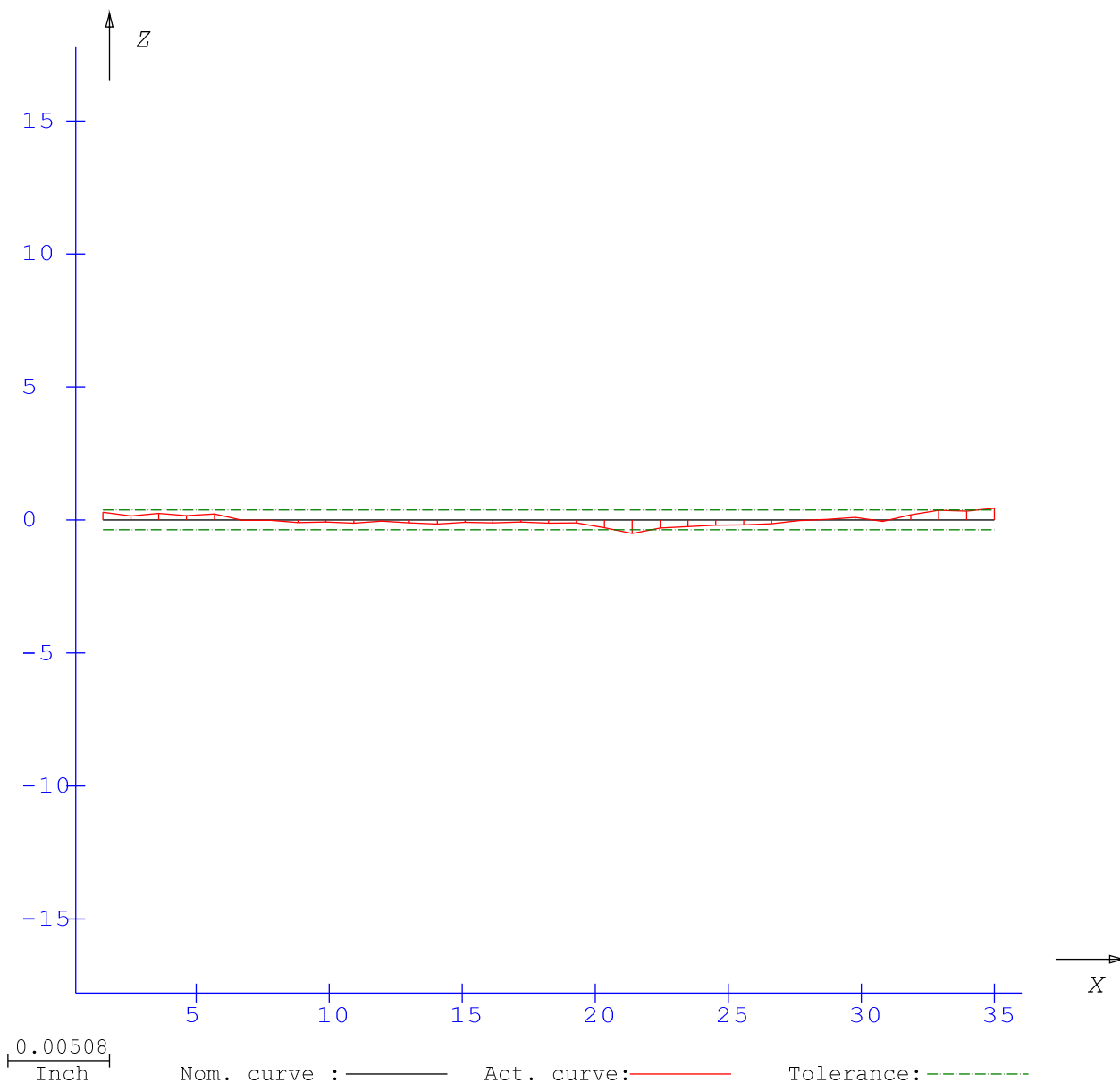
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 013 Part No. : Department:
 Element : ACNO(1)

		X	Y	Z	Nr.		
Form	0.00089	Min. Deviat.:-0.00052	33.95313	-0.30000	0.00000	32	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00036	21.39063	-0.30000	0.00000	20
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:10:55:00



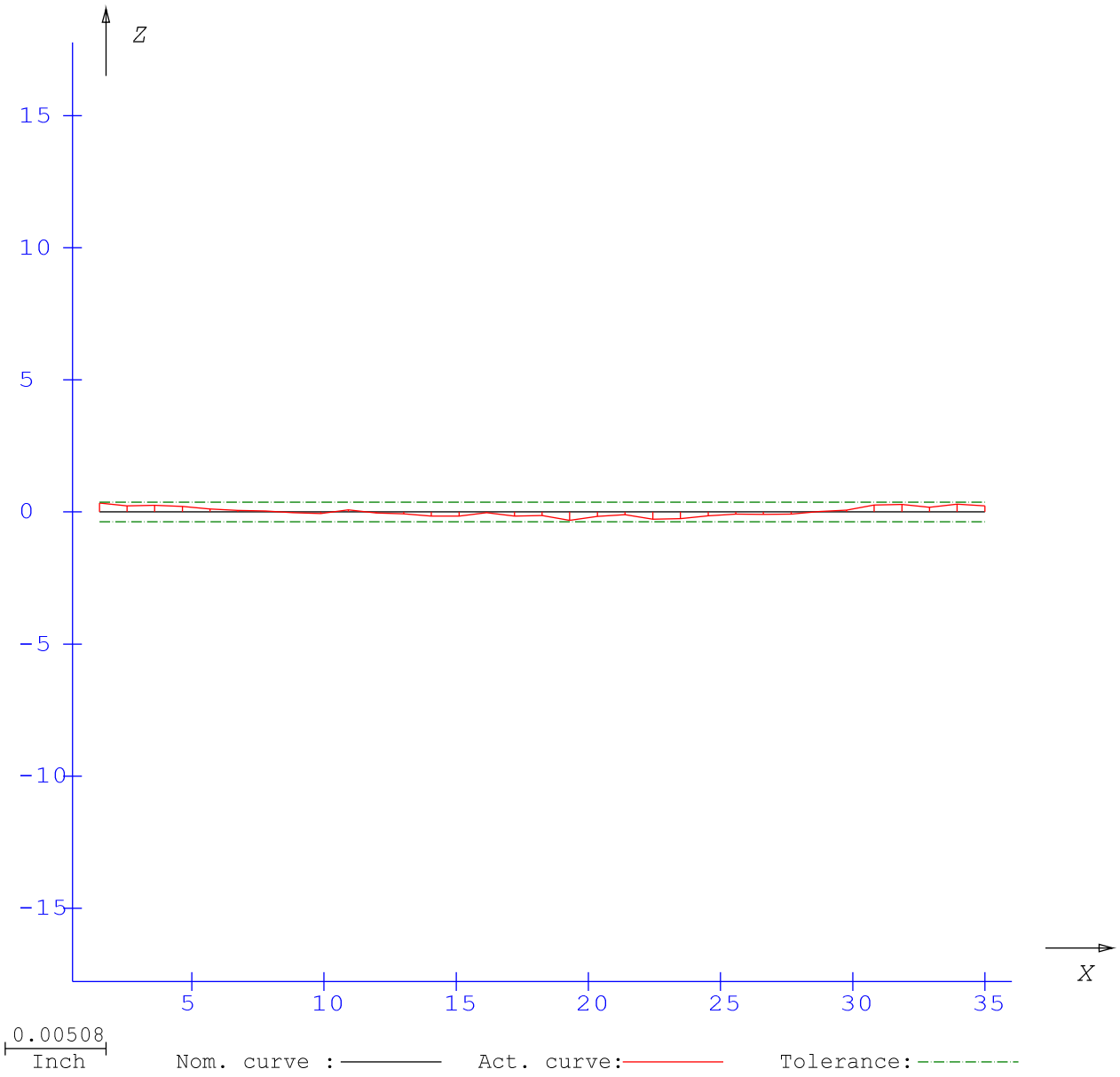
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 013 Part No. : Department:
 Element : ACNO(2)

		X	Y	Z	Nr.	
Form	0.00125	Min. Deviat.:-0.00058	35.00000	0.00000	0.00000	33
Lower Toler. :	-0.00050	Max. Deviat.: 0.00067	21.39063	0.00000	0.00000	20
Upper Toler. :	0.00050					
Error Magnif.:	750					
No. of points:	33					



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:10:55:00



Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 013 Part No. : Department:
 Element : ACNO(3)

		X	Y	Z	Nr.
Form	0.00087	1.50000	0.30000	0.00000	1
Lower Toler. :-	-0.00050	19.29688	0.30000	0.00000	18
Upper Toler. :	0.00050				
Error Magnif.:	750				
No. of points:	33				



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:10:55:00

Quindos Measuring Report



3D-Application Center

Description	LHC ROT. COLLIMATOR	Customer	S. Lundgren/R. Rogers
Drawing Number	N/A	Serial Number	016
Remarks		Article Number	
Supplier	MFD	Delivery Date	
Delivery Note		Delivery Volume	
Lot Number		Lot Size	
Test Schedule		Sample Size	
Production Machine		Production Tool	
Production Date		Production Time	
Order	1110930	Department	
Inspector	kcaban	Inspection Date	13-NOV-2008, 11:19:44
Measuring Device	PMM 12 10 6	Measuring Program	Quindos7 - V 7.01.8086-
User Name	kcaban	WKP Name	LARP_COLL


Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
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FACET_DIST AXI

! ----- Facet Distance/width

DY 0.84295

PLANE PLA

FORM 0.00130 0.00000 0.00100 0.00000 0.00130 

PT(1) POI

! ----- B SIDE POS

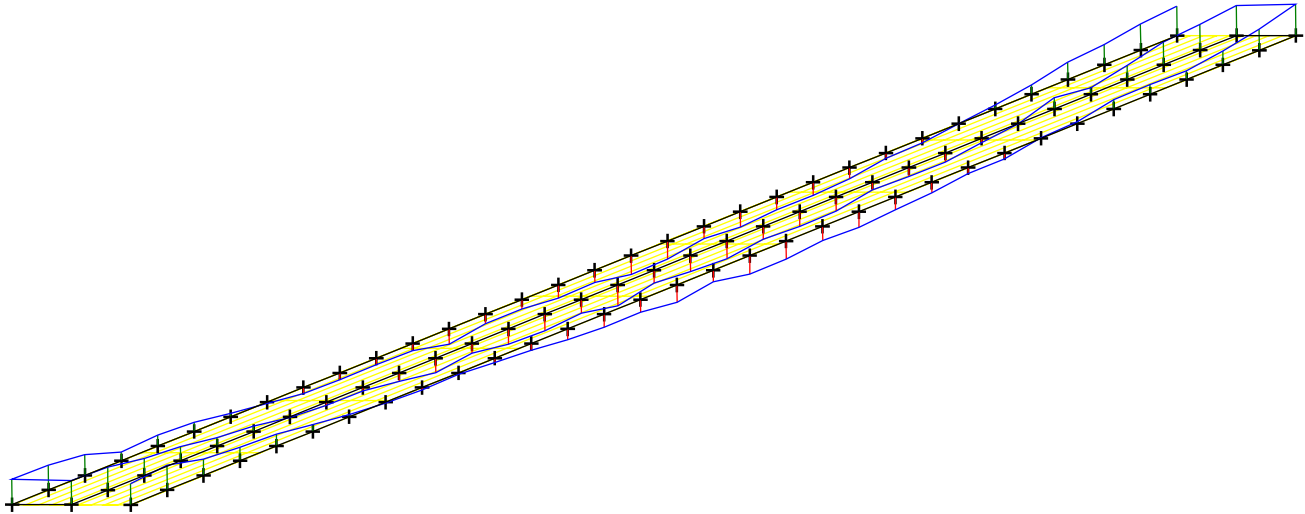
Z -1.45063

PT(2) POI

! ----- A SIDE POS

Z -1.43564

Text	Eval.	Actual	Nominal	Up.To1.	Low.To1.	Act-Nom	Graphic
Date: 13-Nov-08, 11:19:44				LARP_COLL			Page 1 of 1



0.00282
Inch

Actual points : * * *

Neg. Deviation : ————

Pos. Deviation : ————

Notation : LHC ROT. COLLIM

Producer : S. Lundgren/R.

Draw. No. : N/A

Ser. No. : 016

Part No. :

Department:

Element : PLANE

			X	Y	Z	No.	
Form	0.0013	Neg. Deviat.:	-0.0005	17.2035	0.0001	0.0972	51
Error Magnif.:	200	Pos. Deviat.:	0.0008	35.0002	-0.2998	0.0983	33
No. of points:	99						

MESSTECHNIK WETZLAR

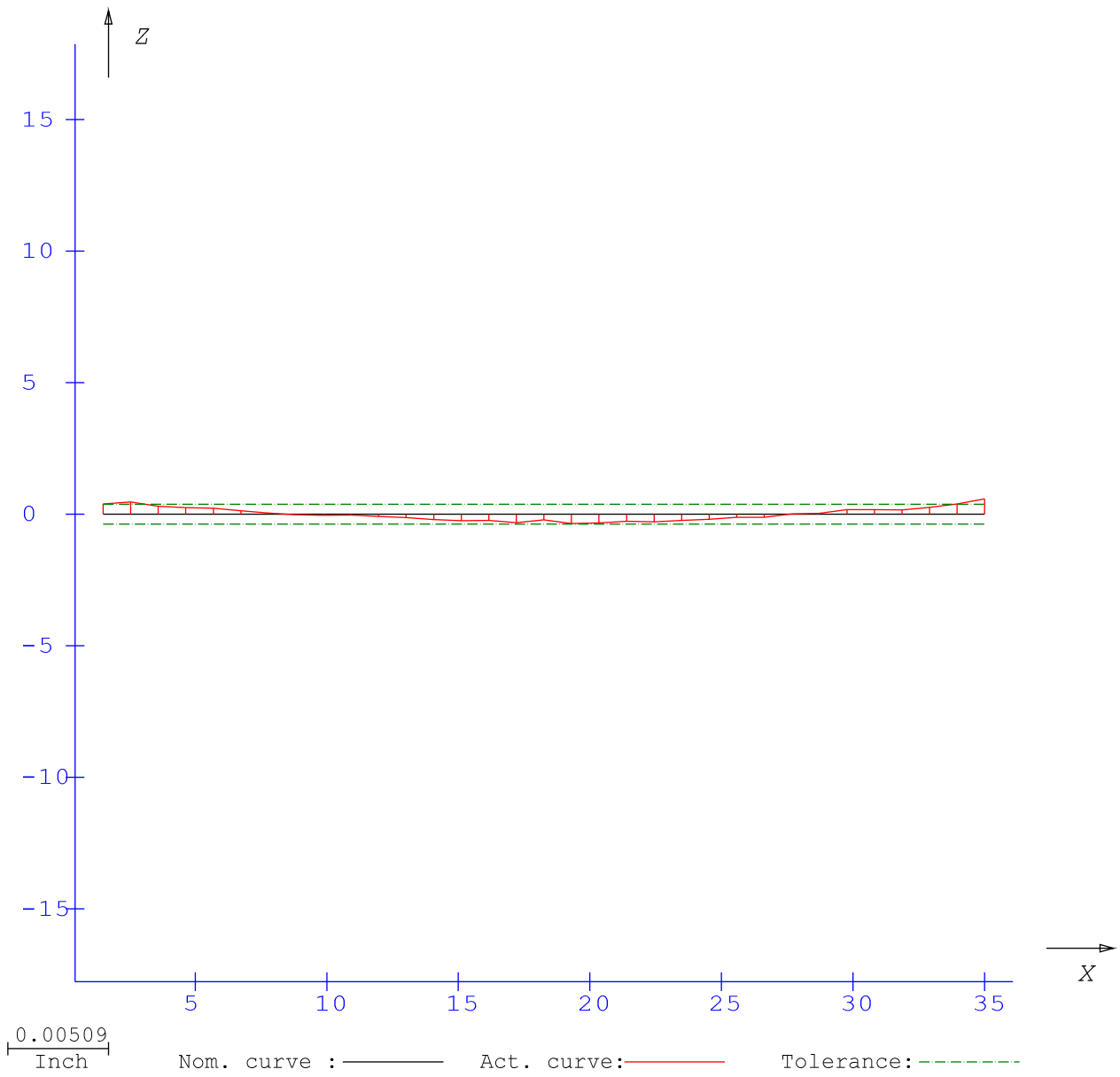


FLATNESS
ISO 1101

Inspector :kcaban

Date:13-NOV-2008

Time:11:19:44



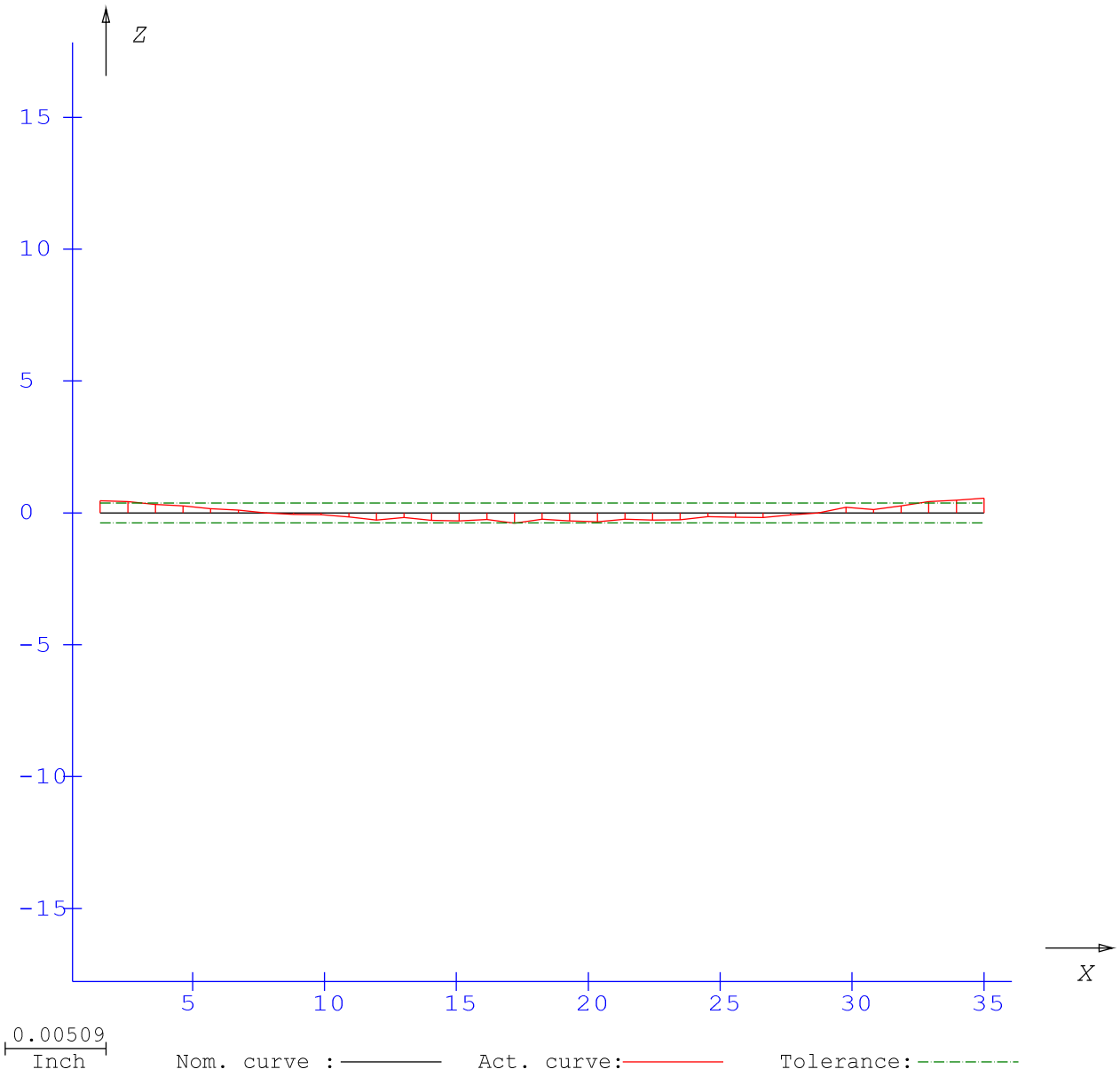
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 016 Part No. : Department:
 Element : ACNO(1)

	X	Y	Z	Nr.			
Form	0.00124	Min. Deviat.:-0.00078	35.00000	-0.30000	0.00000	33	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00046	19.29688	-0.30000	0.00000	18
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:11:19:44



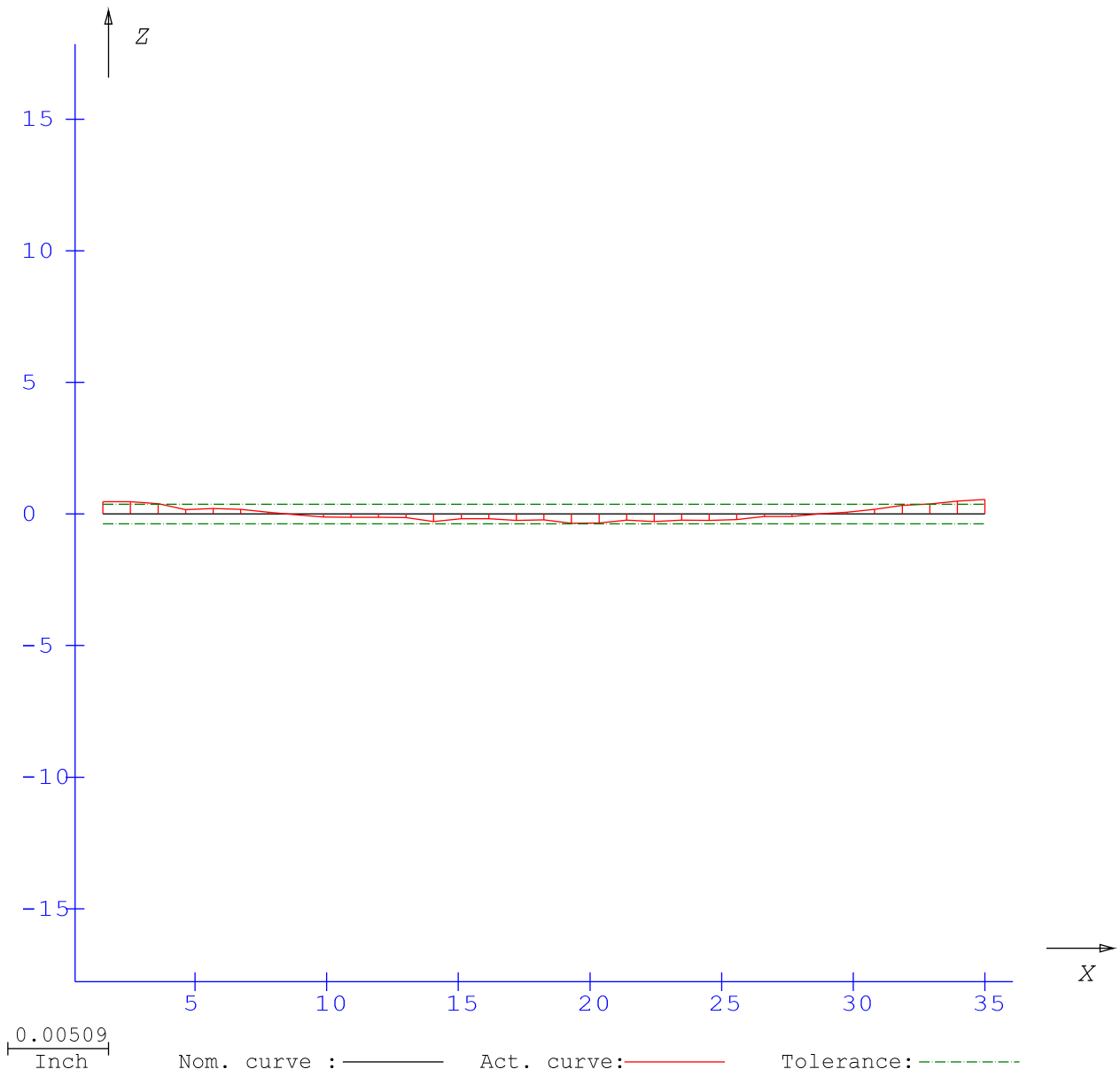
Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 016 Part No. : Department:
 Element : ACNO(2)

	X	Y	Z	Nr.			
Form	0.00127	Min. Deviat.:-0.00074	35.00000	0.00000	0.00000	33	
Lower Toler. :-	-0.00050	Max. Deviat.:	0.00052	17.20313	0.00000	0.00000	16
Upper Toler. :	0.00050						
Error Magnif.:	750						
No. of points:	33						



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:11:19:44



Notation : LHC ROT. COLLIM Producer : S. Lundgren/R. Draw. No. : N/A
 Ser. No. : 016 Part No. : Department:
 Element : ACNO(3)

		X	Y	Z	Nr.	
Form	0.00120	Min. Deviat.:-0.00073	35.00000	0.30000	0.00000	33
Lower Toler. :-	-0.00050	Max. Deviat.: 0.00047	19.29688	0.30000	0.00000	18
Upper Toler. :	0.00050					
Error Magnif.:	750					
No. of points:	33					



2D - CONTOUR

Inspector.:kcaban
 Date:13-NOV-2008
 Time:11:19:44