

**APPLICATION FOR A
MINOR
MODIFICATION TO A
LICENSED DIGITAL
TELEVISION
BROADCAST
STATION HAVING
FCC CALL SIGN
WNGH-TV, FACILITY
ID 23942, AND FCC
FILE NO.:
BLEDT-20080509AAN
CHATSWORTH, GA**

September 29, 2016

Prepared For:

Georgia Public
Telecommunications
Commission
260 14th St NW
Atlanta, GA 30318

Prepared By:

Ryan Wilhour
Kessler and Gehman Assoc.
507 NW 60th Street Suite C
Gainesville, FL 32607

1.0 PURPOSE OF MODIFICATION APPLICATION

1.1 It is herein proposed to correct the following technical parameters:

- NAD83 North Latitude coordinate from:
 - 34° 45' 06.3" to 34° 45' 02.3"
- NAD83 West Longitude coordinate from:
 - 84° 42' 53.8" to 82° 42' 52.7"
- Ground Elevation from:
 - 828m to 843.4m
- CRAMSL from:
 - 903m to 918.4m
- HAAT from:
 - 537m to 550 m

1.2 It is herein proposed to modify the following technical parameters:

- ERP from:
 - 426kW to 400kW

The licensed 426kW ERP is the maximum allowable for the licensed HAAT of 537m. Since the HAAT is being corrected from 537m to 550m, the ERP must be backed down from 426kW to 400kW in order to satisfy Section 73.622 of the FCC rules. No other physical changes are being made.

2.0 FREQUENCY ALLOCATION ANALYSIS

Appendix A demonstrates that the proposed facility does not cause any prohibited interference to any neighboring stations.

3.0 INTERNATIONAL COORDINATION

The proposed facility lies beyond the Mexican and Canadian coordination distance; therefore, the proposed facility is not required to engage in international coordination.

4.0 NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)

4.1 General Environmental Requirements

The existing support structure and antenna will not:

- Require high intensity white lighting.
- Is not located in an official designated wilderness area or wildlife preserve.
- Does not threaten the existence or habitat of endangered species.
- Does not affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed in the National Register of Historic Places or are eligible for listing.
- Does not affect Indian religious sites.
- Is not located in a floodplain
- Does not require construction that involves significant changes in surface features (e.g., wetland fill, deforestation or water diversion).

4.2 Radio Frequency Radiation (RFR) Compliance.

Since no physical changes are herein proposed besides a power reduction which would decrease RFR, a radio frequency analysis has not been conducted.

5.0 CERTIFICATION

The foregoing statement and the report regarding the aforementioned Engineering work are true and correct to the best of my knowledge. Executed on September 29, 2016.

KESSLER AND GEHMAN ASSOCIATES, INC.



Ryan Wilhour
Consulting Engineer

APPENDIX A – ALLOCATION ANALYSIS

Percent allowed new interference: 0.500
 Percent allowed new interference to non Class A LPTV: 2.000
 Census data selected 2000
 Data Base Selected
 ./data_files/pt_tvdb.sff
 TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-28-2016 Time: 14:59:34

Record Selected for Analysis

WNGH-TV- USERRECORD-01 CHATSWORTH GA US
 Channel 33 ERP 400. kW HAAT 550. m RCAMSL 00918 m
 Latitude 034-45-02 Longitude 0084-42-53
 Status APP Zone 2 Border Site number: 01
 Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
 Last update Cutoff date Docket
 Comments
 Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	147.352	560.4	101.2	
45.0	281.417	260.4	80.6	
90.0	390.475	397.1	97.3	
135.0	348.047	423.6	98.2	
180.0	201.879	679.2	109.4	
225.0	128.660	693.5	106.0	
270.0	162.202	700.3	108.4	
315.0	143.750	685.1	106.7	

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
 to Class A stations from site # 01

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WNGH-TV- 33 CHATSWORTH GA USERRECORD01 Site # 01

and station

SHORT TO: WNGH-TV 33 CHATSWORTH GA DTVPLN DTVPL220
 34 -45-06 84 -42-54
 Req. separation 223.7 Actual separation 0.1 Short 223.6 km

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LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
33	WNGH-TV-	CHATSWORTH GA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	WAAY-TV	HUNTSVILLE AL	166.1	LIC	BLCDT 20050701ABO
33	WDFX-TV	OZARK AL	402.6	LIC	BLCDT 20050915APH
33	WSES	TUSCALOOSA AL	287.0	LIC	BLCDT 20091106ABO
33	WEBA-TV	ALLENDALE SC	351.7	LIC	BLEDT 20050915AAY
33	WPGD-TV	HENDERSONVILLE TN	252.8	LIC	BMLCDT 20131125BGF
34	WEAC-CD	JACKSONVILLE AL	164.5	LIC	BLDTA 20121113AGT
34	WTNZ	KNOXVILLE TN	155.9	LIC	BMLCDT 20040706ABG

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
32	WAAY-TV	HUNTSVILLE AL	BLCDT -20050701ABO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	WPXA-TV	ROME GA	178.9	LIC	BLANK -0000001920
32	WPGA-TV	PERRY GA	352.6	LIC	BLCDT -20071213AAD
32	WPGA-TV	PERRY GA	352.6	CP	BPCDT -20111125IEF
32	WPSD-TV	PADUCAH KY	350.7	LIC	BLCDT -20040227ABD
32	WABG-TV	GREENWOOD MS	398.9	LIC	BLCDT -20051024ABR
32	WSBN-TV	NORTON VA	426.5	LIC	BLEDT -20030428ABR
33	WSES	TUSCALOOSA AL	162.3	LIC	BLCDT -20091106ABO
33	WNGH-TV	CHATSWORTH GA	166.1	PLN	DTVPLN -DTVP1220
33	WPGD-TV	HENDERSONVILLE TN	171.9	LIC	BMLCDT -20131125BGF
33	WNGH-TV-	CHATSWORTH GA	166.1	APP	USERRECORD-01

Total scenarios = 2

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Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 32A AL HUNTSVILLE BLC DT 20050701ABO LIC
 HAAT 538.0 m, ATV ERP 468.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1390447	35120.9
not affected by terrain losses	1313453	32904.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15494	438.5
lost to ATV IX only	15494	438.5
lost to all IX	15494	438.5

Potential Interfering Stations Included in above Scenario 1

31A GA ROME	BLANK	0000001920	LIC
32A GA PERRY	BLC DT	20071213AAD	LIC
32A KY PADUCAH	BLC DT	20040227ABD	LIC
33A AL TUSCALOOSA	BLC DT	20091106ABO	LIC
33A TN HENDERSONVILLE	BMLC DT	20131125BGF	LIC
33A GA CHATSWORTH	DTVPLN	DTVP1220	PLN

After Analysis

Results for: 32A AL HUNTSVILLE BLC DT 20050701ABO LIC
 HAAT 538.0 m, ATV ERP 468.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1390447	35120.9
not affected by terrain losses	1313453	32904.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15482	442.5
lost to ATV IX only	15482	442.5
lost to all IX	15482	442.5

Potential Interfering Stations Included in above Scenario 1

31A GA ROME	BLANK	0000001920	LIC
32A GA PERRY	BLC DT	20071213AAD	LIC
32A KY PADUCAH	BLC DT	20040227ABD	LIC
33A AL TUSCALOOSA	BLC DT	20091106ABO	LIC
33A TN HENDERSONVILLE	BMLC DT	20131125BGF	LIC
33A GA CHATSWORTH	USERRECORD01		APP

Percent new IX = -0.0009%

Result key: 2
 Scenario 2 Affected station 1
 Before Analysis

Results for: 32A AL HUNTSVILLE BLC DT 20050701ABO LIC
 HAAT 538.0 m, ATV ERP 468.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1390447	35120.9
not affected by terrain losses	1313453	32904.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18834	478.7
lost to ATV IX only	18834	478.7
lost to all IX	18834	478.7

Potential Interfering Stations Included in above Scenario 2

31A GA ROME	BLANK	0000001920	LIC
32A GA PERRY	BPC DT	20111125IEF	CP
32A KY PADUCAH	BLC DT	20040227ABD	LIC
33A AL TUSCALOOSA	BLC DT	20091106ABO	LIC
33A TN HENDERSONVILLE	BMLC DT	20131125BGF	LIC
33A GA CHATSWORTH	DTVPLN	DTVP1220	PLN

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After Analysis

Results for: 32A AL HUNTSVILLE BLCDT 20050701ABO LIC
HAAT 538.0 m, ATV ERP 468.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1390447	35120.9
not affected by terrain losses	1313453	32904.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18822	482.7
lost to ATV IX only	18822	482.7
lost to all IX	18822	482.7

Potential Interfering Stations Included in above Scenario 2

31A GA ROME	BLANK	0000001920	LIC
32A GA PERRY	BPCDT	20111125IEF	CP
32A KY PADUCAH	BLCDT	20040227ABD	LIC
33A AL TUSCALOOSA	BLCDT	20091106ABO	LIC
33A TN HENDERSONVILLE	BMLCDT	20131125BGF	LIC
33A GA CHATSWORTH	USERRECORD01		APP

Percent new IX = -0.0009%

Worst case new IX -0.0009% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
33	WDFX-TV	OZARK AL	BLCDT	-20050915APH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WFSU-TV	TALLAHASSEE FL	134.5	LIC	BLEDT	-20030730ACW
33	WSES	TUSCALOOSA AL	304.8	LIC	BLCDT	-20091106ABO
33	WNGH-TV	CHATSWORTH GA	402.7	PLN	DTVPLN	-DTVP1220
34	WHBR	PENSACOLA FL	204.7	LIC	BLCDT	-20060627AAV
33	WNGH-TV-	CHATSWORTH GA	402.6	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
33	WSES	TUSCALOOSA AL	BLCDT	-20091106ABO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WAAY-TV	HUNTSVILLE AL	162.3	LIC	BLCDT	-20050701ABO
33	WDFX-TV	OZARK AL	304.8	LIC	BLCDT	-20050915APH
33	WNGH-TV	CHATSWORTH GA	287.1	PLN	DTVPLN	-DTVP1220
33	WPGD-TV	HENDERSONVILLE TN	315.2	LIC	BMLCDT	-20131125BGF
33	WNGH-TV-	CHATSWORTH GA	287.0	APP	USERRECORD-01	

Total scenarios = 1

Result key: 3

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Scenario 1 Affected station 3
Before Analysis

Results for: 33A AL TUSCALOOSA BLCDT 20091106ABO LIC

HAAT 659.0 m, ATV ERP 300.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1459716	35672.4
not affected by terrain losses	1437811	34994.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9958	254.2
lost to ATV IX only	9958	254.2
lost to all IX	9958	254.2

Potential Interfering Stations Included in above Scenario 1

33A AL OZARK	BLCDT	20050915APH	LIC
33A TN HENDERSONVILLE	BMLCDT	20131125BGF	LIC
33A GA CHATSWORTH	DTVPLN	DTVP1220	PLN

After Analysis

Results for: 33A AL TUSCALOOSA BLCDT 20091106ABO LIC

HAAT 659.0 m, ATV ERP 300.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1459716	35672.4
not affected by terrain losses	1437811	34994.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9465	238.1
lost to ATV IX only	9465	238.1
lost to all IX	9465	238.1

Potential Interfering Stations Included in above Scenario 1

33A AL OZARK	BLCDT	20050915APH	LIC
33A TN HENDERSONVILLE	BMLCDT	20131125BGF	LIC
33A GA CHATSWORTH	USERRECORD01		APP

Percent new IX = -0.0345%

Worst case new IX -0.0345% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
33	WEBA-TV	ALLENDAL E SC	BLEDT -20050915AAY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	WPGA-TV	PERRY GA	207.2	LIC	BLCDT -20071213AAD
32	WPGA-TV	PERRY GA	207.2	CP	BPCDT -20111125IEF
32	WRLK-TV	COLUMBIA SC	111.9	LIC	BLEDT -20090622ADI
32	WMBF-TV	MYRTLE BEACH SC	223.6	LIC	BLCDT -20091105AAP
33	WNGH-TV	CHATSWORTH GA	351.8	PLN	DTVP1220
33	WMYV	GREENSBORO NC	330.9	LIC	BLCDT -20020430ABD
34	WGWG	CHARLESTON SC	160.8	LIC	BLCDT -20060630ADJ
33	WNGH-TV-	CHATSWORTH GA	351.7	APP	USERRECORD-01

Total scenarios = 1

Result key: 4

Scenario 1 Affected station 4

Before Analysis

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Results for: 33A SC ALLENDALE BLEDT 20050915AAY LIC
HAAT 241.0 m, ATV ERP 427.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	604334	15242.0
not affected by terrain losses	603312	15210.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13	4.0
lost to ATV IX only	13	4.0
lost to all IX	13	4.0

Potential Interfering Stations Included in above Scenario 1

32A SC COLUMBIA BLEDT 20090622ADI LIC

After Analysis

Results for: 33A SC ALLENDALE BLEDT 20050915AAY LIC
HAAT 241.0 m, ATV ERP 427.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	604334	15242.0
not affected by terrain losses	603312	15210.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15	8.0
lost to ATV IX only	15	8.0
lost to all IX	15	8.0

Potential Interfering Stations Included in above Scenario 1

32A SC COLUMBIA BLEDT 20090622ADI LIC
33A GA CHATSWORTH USERRECORD01 APP

Percent new IX = 0.0003%

Worst case new IX 0.0003% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
33	WPGD-TV	HENDERSONVILLE TN	BMLCDT -20131125BGF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	WAAY-TV	HUNTSVILLE AL	171.9	LIC	BLCDT -20050701ABO
32	WPSD-TV	PADUCAH KY	220.1	LIC	BLCDT -20040227ABD
33	WSES	TUSCALOOSA AL	315.2	LIC	BLCDT -20091106ABO
33	WNGH-TV	CHATSWORTH GA	252.7	PLN	DTVPLN -DTVP1220
33	WSTR-TV	CINCINNATI OH	382.3	LIC	BLCDT -20091117ACS
33	WNGH-TV-	CHATSWORTH GA	252.8	APP	USERRECORD-01

Total scenarios = 1

Result key: 5

Scenario 1 Affected station 5

Before Analysis

Results for: 33A TN HENDERSONVILLE BMLCDT 20131125BGF LIC
HAAT 412.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1978241	36724.2
not affected by terrain losses	1962427	35436.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4983	211.9
lost to ATV IX only	4983	211.9

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lost to all IX 4983 211.9

Potential Interfering Stations Included in above Scenario 1

32A AL HUNTSVILLE	BLC DT	20050701ABO	LIC
33A AL TUSCALOOSA	BLC DT	20091106ABO	LIC
33A OH CINCINNATI	BLC DT	20091117ACS	LIC
33A GA CHATSWORTH	DTVPLN	DTVPL220	PLN

After Analysis

Results for: 33A TN HENDERSONVILLE BMLC DT 20131125BGF LIC
HAAT 412.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1978241	36724.2
not affected by terrain losses	1962427	35436.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4779	203.9
lost to ATV IX only	4779	203.9
lost to all IX	4779	203.9

Potential Interfering Stations Included in above Scenario 1

32A AL HUNTSVILLE	BLC DT	20050701ABO	LIC
33A AL TUSCALOOSA	BLC DT	20091106ABO	LIC
33A OH CINCINNATI	BLC DT	20091117ACS	LIC
33A GA CHATSWORTH	USERRECORD01		APP

Percent new IX = -0.0104%

Worst case new IX -0.0104% Scenario 1

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
34	WEAC-CD	JACKSONVILLE AL	BLDTA	-20121113AGT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	WJCN-LD	LAGRANGE GA	100.7	LIC	BLDTL	-20130411AAA
34	WHVD-LD	HUNTSVILLE AL	138.0	LIC	BLDTL	-20121213AIM
34	WFRZ-LD	MONTGOMERY AL	138.8	LIC	BLDTL	-20090305ACQ
34	WHBR	PENSACOLA FL	373.9	LIC	BLC DT	-20060627AAV
34	W34EW-D	COLUMBUS GA	111.7	CP MOD	BLANK	-0000010576
34	W34EN-D	DALTON GA	155.0	CP	BDCCDTL	-20110721AAJ
34	NEW	MACON GA	236.1	APP	BNPDTL	-20090825BSW
34	NEW	WARNER ROBBINS GA	235.9	APP	BNPDTL	-20090825AEJ
34	WRBJ-TV	MAGEE MS	381.5	LIC	BLC DT	-20110511AGB
34	WTNZ	KNOXVILLE TN	317.9	LIC	BMLC DT	-20040706ABG
33	WNGH-TV-	CHATSWORTH GA	164.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
34	WTNZ	KNOXVILLE TN	BMLC DT	-20040706ABG

Stations Potentially Affecting This Station

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Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	WNGH-TV	CHATSWORTH GA	155.8	PLN	DTVPLN	-DTVP1220
34	WSOC-TV	CHARLOTTE NC	302.0	LIC	BLCDDT	-20040526ANW
34	WCET	CINCINNATI OH	350.6	LIC	BLEDT	-20061031AAR
34	WVPB-TV	HUNTINGTON WV	316.9	LIC	BLEDT	-20120214AAS
33	WNGH-TV-	CHATSWORTH GA	155.9	APP	USERRECORD-01	

Total scenarios = 1

Result key: 6
Scenario 1 Affected station 7
Before Analysis

Results for: 34A TN KNOXVILLE BMLCDDT 20040706ABG LIC
HAAT 529.0 m, ATV ERP 460.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1542487	37756.2
not affected by terrain losses	1347284	29725.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2916	136.4
lost to ATV IX only	2916	136.4
lost to all IX	2916	136.4

Potential Interfering Stations Included in above Scenario 1

34A NC CHARLOTTE	BLCDDT	20040526ANW	LIC
34A OH CINCINNATI	BLEDT	20061031AAR	LIC
34A WV HUNTINGTON	BLEDT	20120214AAS	LIC
33A GA CHATSWORTH	DTVPLN	DTVP1220	PLN

After Analysis

Results for: 34A TN KNOXVILLE BMLCDDT 20040706ABG LIC
HAAT 529.0 m, ATV ERP 460.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1542487	37756.2
not affected by terrain losses	1347284	29725.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3063	144.4
lost to ATV IX only	3063	144.4
lost to all IX	3063	144.4

Potential Interfering Stations Included in above Scenario 1

34A NC CHARLOTTE	BLCDDT	20040526ANW	LIC
34A OH CINCINNATI	BLEDT	20061031AAR	LIC
34A WV HUNTINGTON	BLEDT	20120214AAS	LIC
33A GA CHATSWORTH	USERRECORD01		APP

Percent new IX = 0.0109%

Worst case new IX 0.0109% Scenario 1

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
33	WNGH-TV-	CHATSWORTH GA	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WAAY-TV	HUNTSVILLE AL	166.1	LIC	BLCDDT	-20050701ABO
33	WDFX-TV	OZARK AL	402.6	LIC	BLCDDT	-20050915APH
33	WSES	TUSCALOOSA AL	287.0	LIC	BLCDDT	-20091106ABO

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33	WEBA-TV	ALLENDALE SC	351.7	LIC	BLEDT	-20050915AAY
33	WPGD-TV	HENDERSONVILLE TN	252.8	LIC	BMLCDT	-20131125BGF
34	WTNZ	KNOXVILLE TN	155.9	LIC	BMLCDT	-20040706ABG

Total scenarios = 1

Result key: 7

Scenario 1 Affected station 8

Before Analysis

Results for: 33A GA CHATSWORTH USERRECORD01 APP

HAAT 550.0 m, ATV ERP 396.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	3102531	33067.3
not affected by terrain losses	2849887	28275.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	47866	1247.4
lost to ATV IX only	47866	1247.4
lost to all IX	47866	1247.4

Potential Interfering Stations Included in above Scenario 1

32A AL HUNTSVILLE	BLCDT	20050701ABO	LIC
33A AL TUSCALOOSA	BLCDT	20091106ABO	LIC
33A SC ALLENDALE	BLEDT	20050915AAY	LIC
33A TN HENDERSONVILLE	BMLCDT	20131125BGF	LIC
34A TN KNOXVILLE	BMLCDT	20040706ABG	LIC

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APPENDIX B – Existing Antenna Specifications

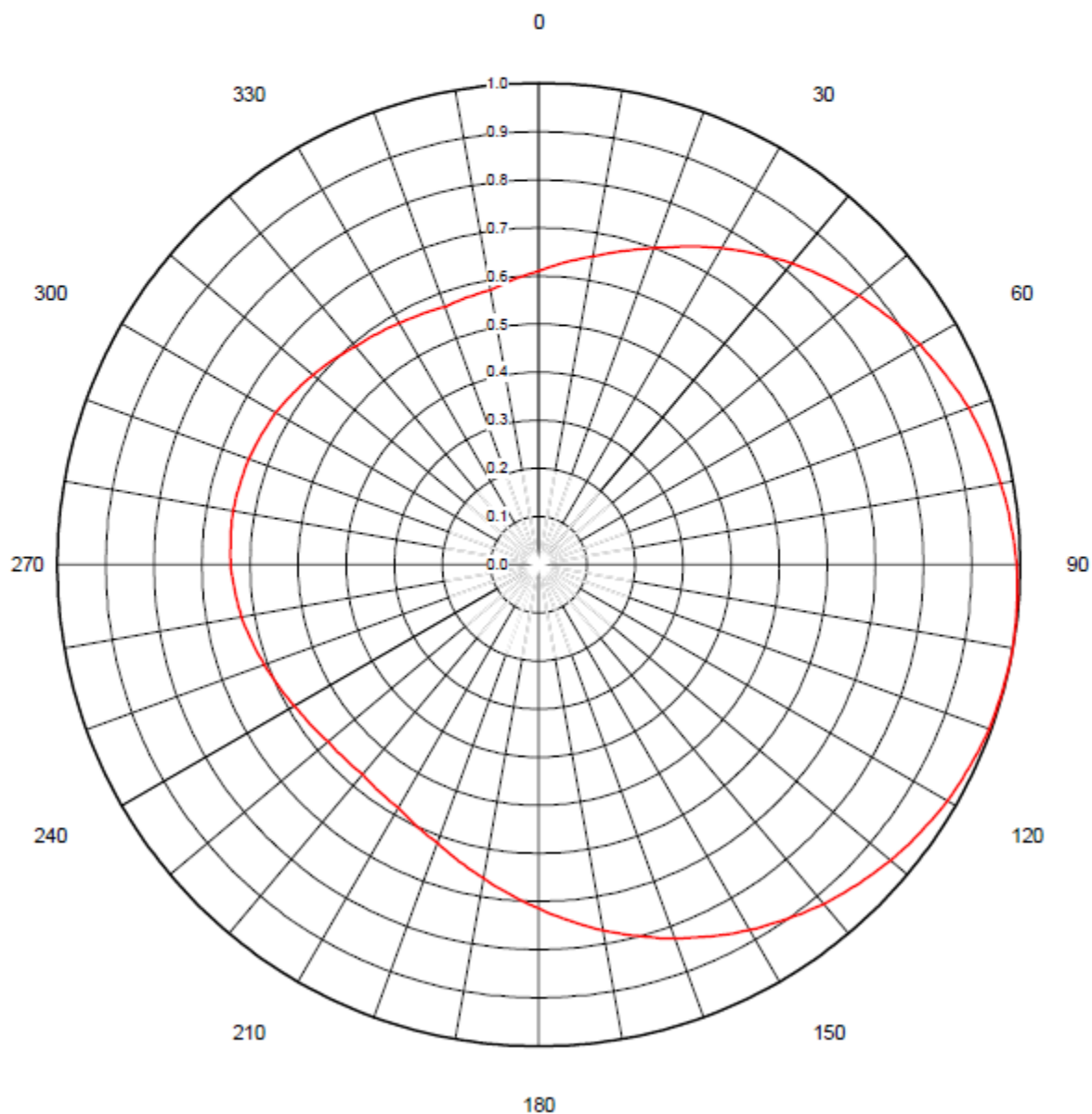


Proposal Number	C-00454	Revision:	1
Date	20-Dec-06		
Call Letters	WCLP-DT	Channel	33
Location	Chatsworth, GA		
Customer	Georgia Public Television		
Antenna Type	TFU-24DSB-B-R		

AZIMUTH PATTERN

Gain **1.70** (2.30 dB)
Calculated / Measured **Calculated**

Frequency **587.00 MHz**
Drawing # **DSB-B**





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TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: DSB-B

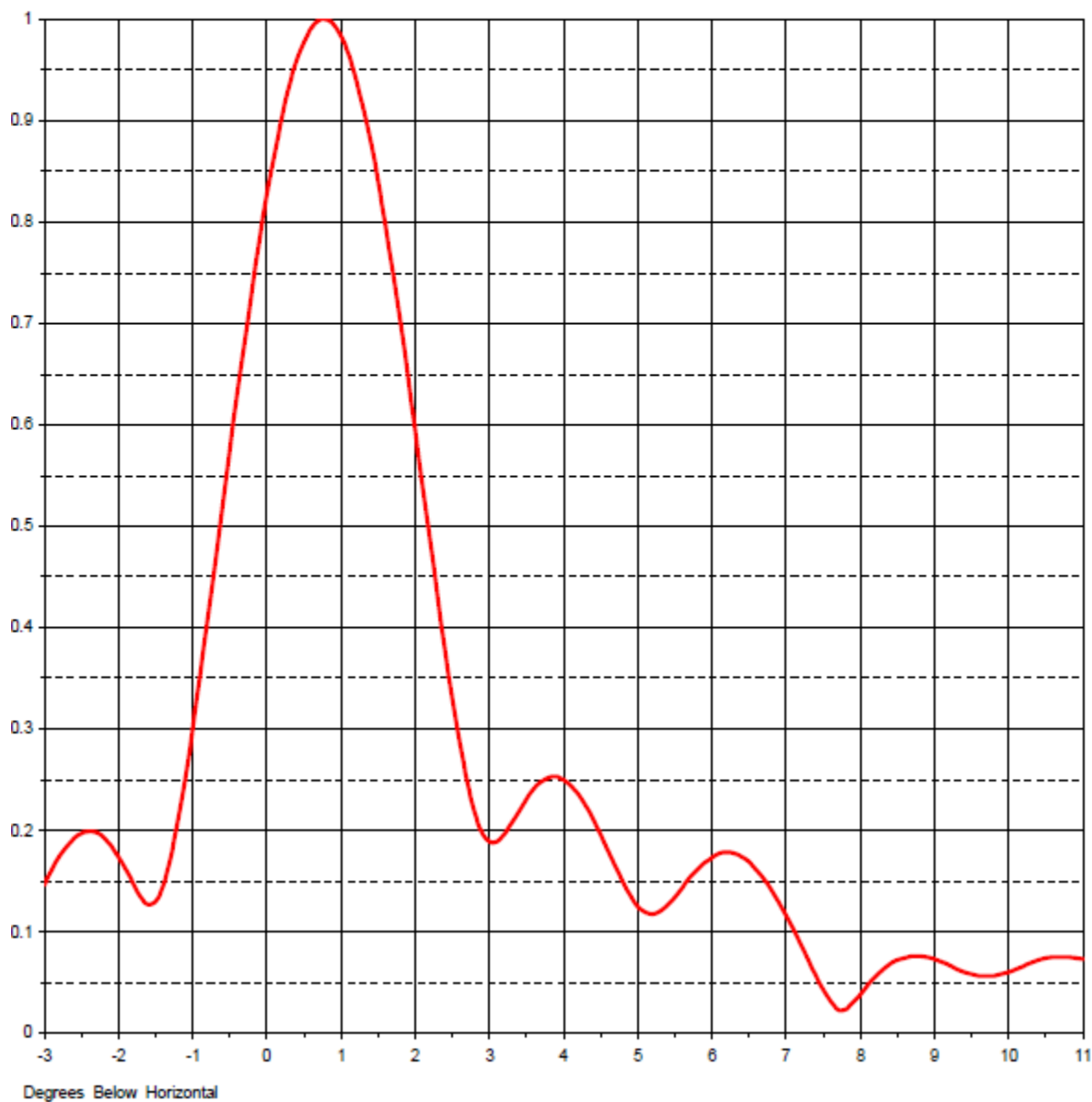
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.610	45	0.843	90	0.993	135	0.938	180	0.714	225	0.570	270	0.640	315	0.603
1	0.614	46	0.848	91	0.994	136	0.934	181	0.709	226	0.570	271	0.641	316	0.600
2	0.618	47	0.853	92	0.994	137	0.930	182	0.703	227	0.570	272	0.641	317	0.598
3	0.622	48	0.859	93	0.995	138	0.927	183	0.698	228	0.571	273	0.641	318	0.596
4	0.626	49	0.864	94	0.996	139	0.924	184	0.693	229	0.571	274	0.642	319	0.594
5	0.630	50	0.869	95	0.997	140	0.920	185	0.688	230	0.571	275	0.642	320	0.592
6	0.634	51	0.873	96	0.997	141	0.916	186	0.682	231	0.572	276	0.643	321	0.591
7	0.638	52	0.878	97	0.998	142	0.911	187	0.677	232	0.574	277	0.643	322	0.589
8	0.642	53	0.882	98	0.999	143	0.907	188	0.672	233	0.576	278	0.644	323	0.588
9	0.646	54	0.887	99	0.999	144	0.902	189	0.666	234	0.577	279	0.645	324	0.587
10	0.650	55	0.891	100	1.000	145	0.898	190	0.661	235	0.578	280	0.645	325	0.586
11	0.655	56	0.896	101	1.000	146	0.894	191	0.656	236	0.580	281	0.645	326	0.584
12	0.660	57	0.900	102	0.999	147	0.889	192	0.652	237	0.581	282	0.644	327	0.583
13	0.665	58	0.905	103	0.999	148	0.885	193	0.647	238	0.583	283	0.644	328	0.582
14	0.670	59	0.910	104	0.998	149	0.880	194	0.643	239	0.585	284	0.643	329	0.580
15	0.674	60	0.914	105	0.998	150	0.876	195	0.638	240	0.586	285	0.643	330	0.579
16	0.679	61	0.918	106	0.998	151	0.871	196	0.633	241	0.588	286	0.643	331	0.578
17	0.684	62	0.921	107	0.997	152	0.866	197	0.629	242	0.590	287	0.642	332	0.577
18	0.689	63	0.925	108	0.997	153	0.861	198	0.624	243	0.592	288	0.642	333	0.576
19	0.694	64	0.929	109	0.996	154	0.856	199	0.620	244	0.594	289	0.641	334	0.575
20	0.699	65	0.933	110	0.996	155	0.851	200	0.615	245	0.596	290	0.641	335	0.575
21	0.705	66	0.936	111	0.994	156	0.846	201	0.612	246	0.599	291	0.640	336	0.574
22	0.711	67	0.940	112	0.993	157	0.841	202	0.609	247	0.601	292	0.639	337	0.573
23	0.717	68	0.944	113	0.992	158	0.836	203	0.605	248	0.603	293	0.638	338	0.572
24	0.723	69	0.947	114	0.990	159	0.831	204	0.602	249	0.605	294	0.637	339	0.571
25	0.729	70	0.951	115	0.988	160	0.826	205	0.599	250	0.607	295	0.636	340	0.570
26	0.735	71	0.953	116	0.987	161	0.821	206	0.596	251	0.609	296	0.635	341	0.571
27	0.741	72	0.956	117	0.985	162	0.815	207	0.593	252	0.611	297	0.634	342	0.572
28	0.747	73	0.958	118	0.984	163	0.809	208	0.589	253	0.613	298	0.633	343	0.573
29	0.753	74	0.961	119	0.983	164	0.804	209	0.586	254	0.615	299	0.632	344	0.574
30	0.759	75	0.963	120	0.981	165	0.799	210	0.583	255	0.617	300	0.631	345	0.575
31	0.765	76	0.965	121	0.978	166	0.793	211	0.582	256	0.619	301	0.629	346	0.575
32	0.771	77	0.968	122	0.976	167	0.788	212	0.580	257	0.621	302	0.627	347	0.576
33	0.776	78	0.970	123	0.973	168	0.782	213	0.579	258	0.623	303	0.626	348	0.577
34	0.782	79	0.973	124	0.971	169	0.776	214	0.577	259	0.625	304	0.624	349	0.578
35	0.788	80	0.975	125	0.968	170	0.771	215	0.576	260	0.627	305	0.622	350	0.579
36	0.794	81	0.977	126	0.965	171	0.765	216	0.575	261	0.628	306	0.620	351	0.582
37	0.800	82	0.979	127	0.963	172	0.760	217	0.573	262	0.630	307	0.618	352	0.585
38	0.805	83	0.980	128	0.960	173	0.754	218	0.572	263	0.631	308	0.617	353	0.588
39	0.811	84	0.982	129	0.958	174	0.748	219	0.570	264	0.632	309	0.615	354	0.591
40	0.817	85	0.984	130	0.955	175	0.743	220	0.569	265	0.633	310	0.613	355	0.595
41	0.822	86	0.986	131	0.951	176	0.737	221	0.569	266	0.635	311	0.611	356	0.598
42	0.827	87	0.988	132	0.948	177	0.731	222	0.569	267	0.636	312	0.609	357	0.601
43	0.833	88	0.989	133	0.945	178	0.725	223	0.570	268	0.637	313	0.607	358	0.604
44	0.838	89	0.991	134	0.941	179	0.720	224	0.570	269	0.639	314	0.605	359	0.607



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ELEVATION PATTERN

RMS Gain at Main Lobe	24.00 (13.80 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	16.40 (12.15 dB)	Frequency	587.00 MHz
Calculated / Measured	Calculated	Drawing #	24B240075

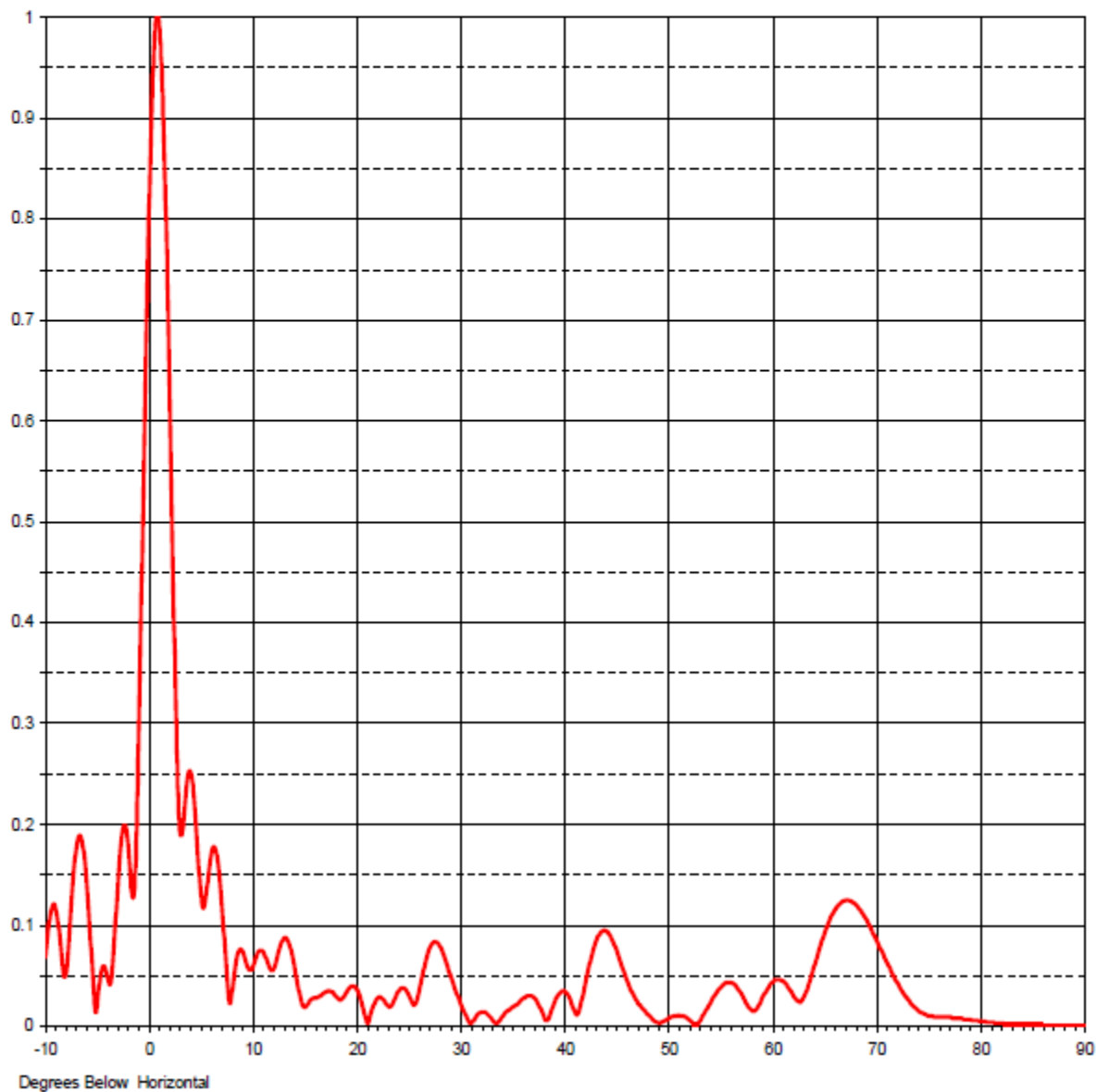




Proposal Number	C-00454	Revision:	1
Date	20-Dec-06		
Call Letters	WCLP-DT	Channel	33
Location	Chatsworth, GA		
Customer	Georgia Public Television		
Antenna Type	TFU-24DSB-B-R		

ELEVATION PATTERN

RMS Gain at Main Lobe	24.00 (13.80 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	16.40 (12.15 dB)	Frequency	587.00 MHz
Calculated / Measured	Calculated	Drawing #	24B240075-90





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 Antenna Type TFU-24DSB-B-R

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: 24B240075-90

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.069	2.4	0.379	10.6	0.074	30.5	0.011	51.0	0.011	71.5	0.051
-9.5	0.113	2.6	0.286	10.8	0.075	31.0	0.003	51.5	0.010	72.0	0.042
-9.0	0.116	2.8	0.218	11.0	0.074	31.5	0.009	52.0	0.007	72.5	0.033
-8.5	0.076	3.0	0.189	11.5	0.062	32.0	0.014	52.5	0.002	73.0	0.026
-8.0	0.054	3.2	0.196	12.0	0.056	32.5	0.013	53.0	0.005	73.5	0.020
-7.5	0.123	3.4	0.219	12.5	0.073	33.0	0.008	53.5	0.013	74.0	0.015
-7.0	0.179	3.6	0.241	13.0	0.087	33.5	0.003	54.0	0.022	74.5	0.012
-6.5	0.185	3.8	0.252	13.5	0.083	34.0	0.009	54.5	0.031	75.0	0.010
-6.0	0.137	4.0	0.250	14.0	0.062	34.5	0.015	55.0	0.038	75.5	0.009
-5.5	0.058	4.2	0.236	14.5	0.034	35.0	0.019	55.5	0.043	76.0	0.009
-5.0	0.024	4.4	0.211	15.0	0.019	35.5	0.022	56.0	0.043	76.5	0.009
-4.5	0.059	4.6	0.180	15.5	0.025	36.0	0.027	56.5	0.040	77.0	0.009
-4.0	0.047	4.8	0.149	16.0	0.028	36.5	0.030	57.0	0.033	77.5	0.008
-3.5	0.066	5.0	0.125	16.5	0.030	37.0	0.029	57.5	0.023	78.0	0.008
-3.0	0.146	5.2	0.117	17.0	0.034	37.5	0.022	58.0	0.016	78.5	0.007
-2.8	0.174	5.4	0.126	17.5	0.035	38.0	0.011	58.5	0.017	79.0	0.007
-2.6	0.192	5.6	0.143	18.0	0.030	38.5	0.008	59.0	0.027	79.5	0.006
-2.4	0.199	5.8	0.161	18.5	0.026	39.0	0.022	59.5	0.036	80.0	0.005
-2.2	0.193	6.0	0.173	19.0	0.033	39.5	0.032	60.0	0.043	80.5	0.004
-2.0	0.174	6.2	0.178	19.5	0.040	40.0	0.035	60.5	0.046	81.0	0.004
-1.8	0.147	6.4	0.174	20.0	0.037	40.5	0.028	61.0	0.045	81.5	0.003
-1.6	0.127	6.6	0.161	20.5	0.024	41.0	0.015	61.5	0.039	82.0	0.003
-1.4	0.145	6.8	0.141	21.0	0.004	41.5	0.018	62.0	0.031	82.5	0.002
-1.2	0.209	7.0	0.116	21.5	0.016	42.0	0.041	62.5	0.025	83.0	0.002
-1.0	0.301	7.2	0.087	22.0	0.027	42.5	0.064	63.0	0.028	83.5	0.002
-0.8	0.407	7.4	0.057	22.5	0.027	43.0	0.083	63.5	0.041	84.0	0.001
-0.6	0.519	7.6	0.031	23.0	0.021	43.5	0.093	64.0	0.058	84.5	0.001
-0.4	0.630	7.8	0.023	23.5	0.023	44.0	0.094	64.5	0.078	85.0	0.001
-0.2	0.734	8.0	0.038	24.0	0.034	44.5	0.088	65.0	0.094	85.5	0.001
0.0	0.827	8.2	0.055	24.5	0.038	45.0	0.076	65.5	0.107	86.0	0.000
0.2	0.903	8.4	0.068	25.0	0.032	45.5	0.061	66.0	0.116	86.5	0.000
0.4	0.959	8.6	0.074	25.5	0.021	46.0	0.046	66.5	0.122	87.0	0.000
0.6	0.992	8.8	0.076	26.0	0.033	46.5	0.034	67.0	0.125	87.5	0.000
0.8	1.000	9.0	0.073	26.5	0.057	47.0	0.025	67.5	0.124	88.0	0.000
1.0	0.983	9.2	0.067	27.0	0.076	47.5	0.018	68.0	0.120	88.5	0.000
1.2	0.942	9.4	0.060	27.5	0.084	48.0	0.012	68.5	0.113	89.0	0.000
1.4	0.879	9.6	0.056	28.0	0.080	48.5	0.007	69.0	0.105	89.5	0.000
1.6	0.797	9.8	0.056	28.5	0.068	49.0	0.004	69.5	0.095	90.0	0.000
1.8	0.701	10.0	0.058	29.0	0.052	49.5	0.005	70.0	0.084		
2.0	0.595	10.2	0.063	29.5	0.037	50.0	0.008	70.5	0.073		
2.2	0.485	10.4	0.069	30.0	0.023	50.5	0.010	71.0	0.062		