



Date
Call Letters
Location
Customer
Antenna Type

10 Apr 2018
WFUN-LP Channel **20**
Miami, FL
Caribevision Holdings, Inc.
TFU-8DSB-F

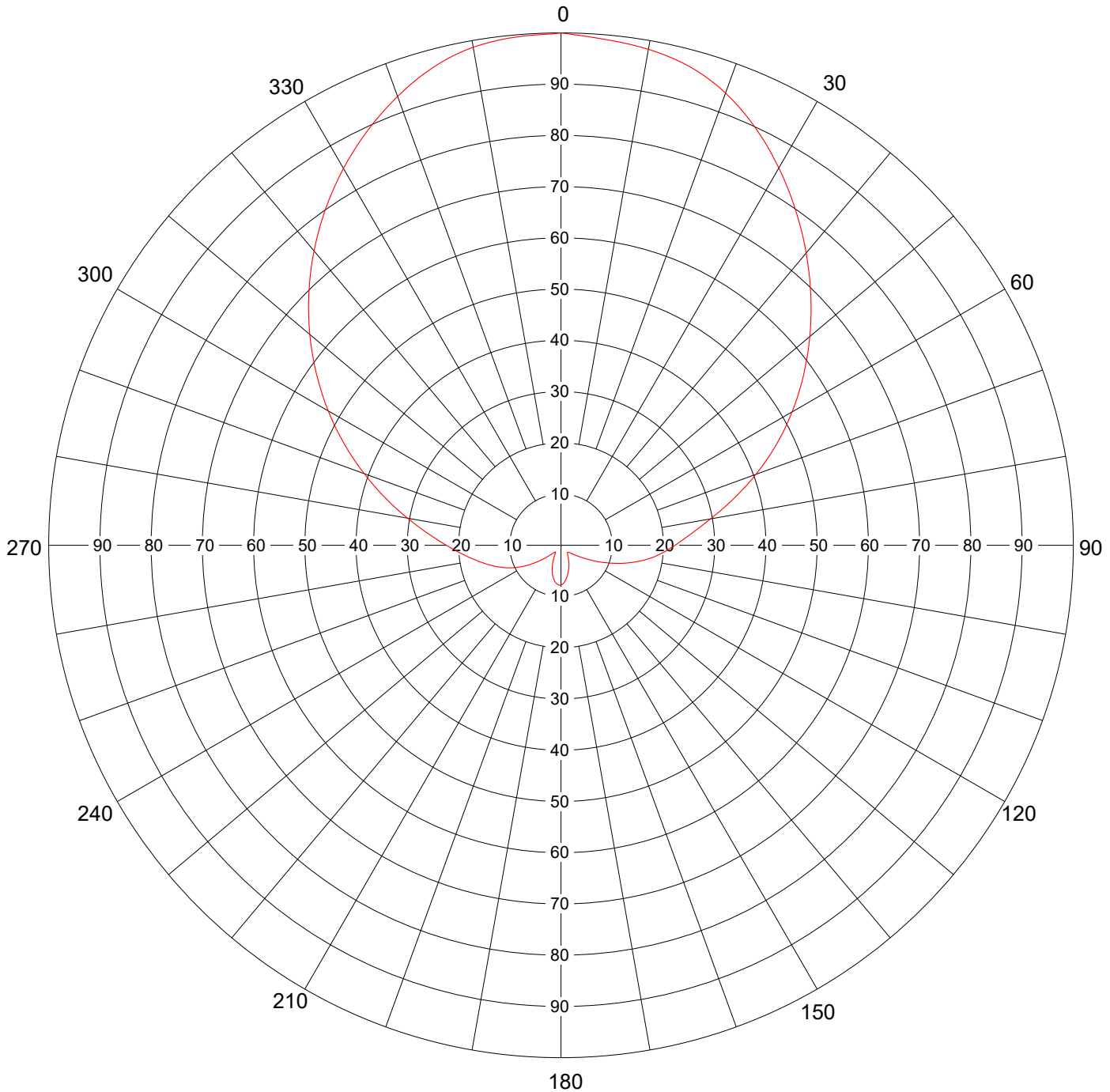
AZIMUTH PATTERN

Gain
Calculated / Measured

3.6 (5.56 dB)
Calculated

Frequency
Drawing #

509 MHz
DSB-F



Remarks:



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TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **DSB-F**

Angle	Field	ERP (kW)	ERP (dBk)
0	1.000	2.2	3.44
10	0.983	2.1	3.29
20	0.939	1.9	2.90
30	0.850	1.6	2.03
40	0.745	1.2	0.89
50	0.634	0.9	-0.51
60	0.521	0.6	-2.22
70	0.405	0.4	-4.41
80	0.296	0.2	-7.13
90	0.223	0.1	-9.59
100	0.165	0.1	-12.21
110	0.101	0.0	-16.47
120	0.049	0.0	-22.75
130	0.023	0.0	-29.32
140	0.019	0.0	-30.98
150	0.028	0.0	-27.61
160	0.045	0.0	-23.49
170	0.064	0.0	-20.43
180	0.077	0.0	-18.83
190	0.071	0.0	-19.53
200	0.051	0.0	-22.40
210	0.028	0.0	-27.61
220	0.017	0.0	-31.95
230	0.035	0.0	-25.67
240	0.080	0.0	-18.49
250	0.125	0.0	-14.62
260	0.168	0.1	-12.05
270	0.224	0.1	-9.55
280	0.304	0.2	-6.90
290	0.409	0.4	-4.32
300	0.525	0.6	-2.15
310	0.640	0.9	-0.43
320	0.750	1.2	0.95
330	0.849	1.6	2.02
340	0.932	1.9	2.83
350	0.987	2.2	3.33

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
0	1.000	2.2	3.44
182	0.078	0.0	-18.71

Minima

Angle	Field	ERP (kW)	ERP (dBk)
137	0.019	0.0	-30.98
220	0.017	0.0	-31.95

Remarks:

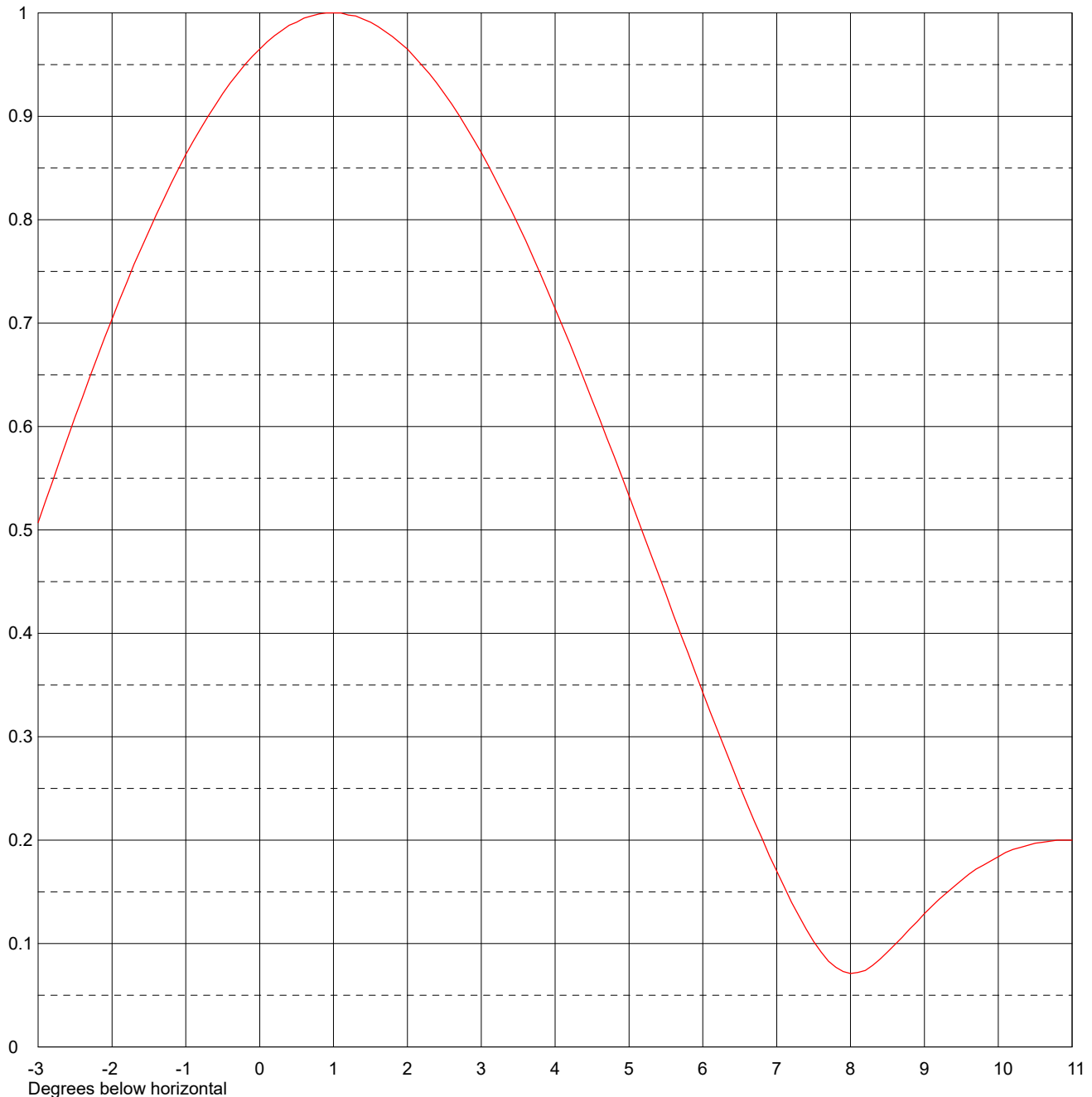


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ELEVATION PATTERN

RMS Gain at Main Lobe	8.0 (9.03 dB)	Beam Tilt	1.00 Degrees
RMS Gain at Horizontal	7.4 (8.69 dB)	Frequency	509.00 MHz
Calculated / Measured	Calculated	Drawing #	08B080100



Remarks:



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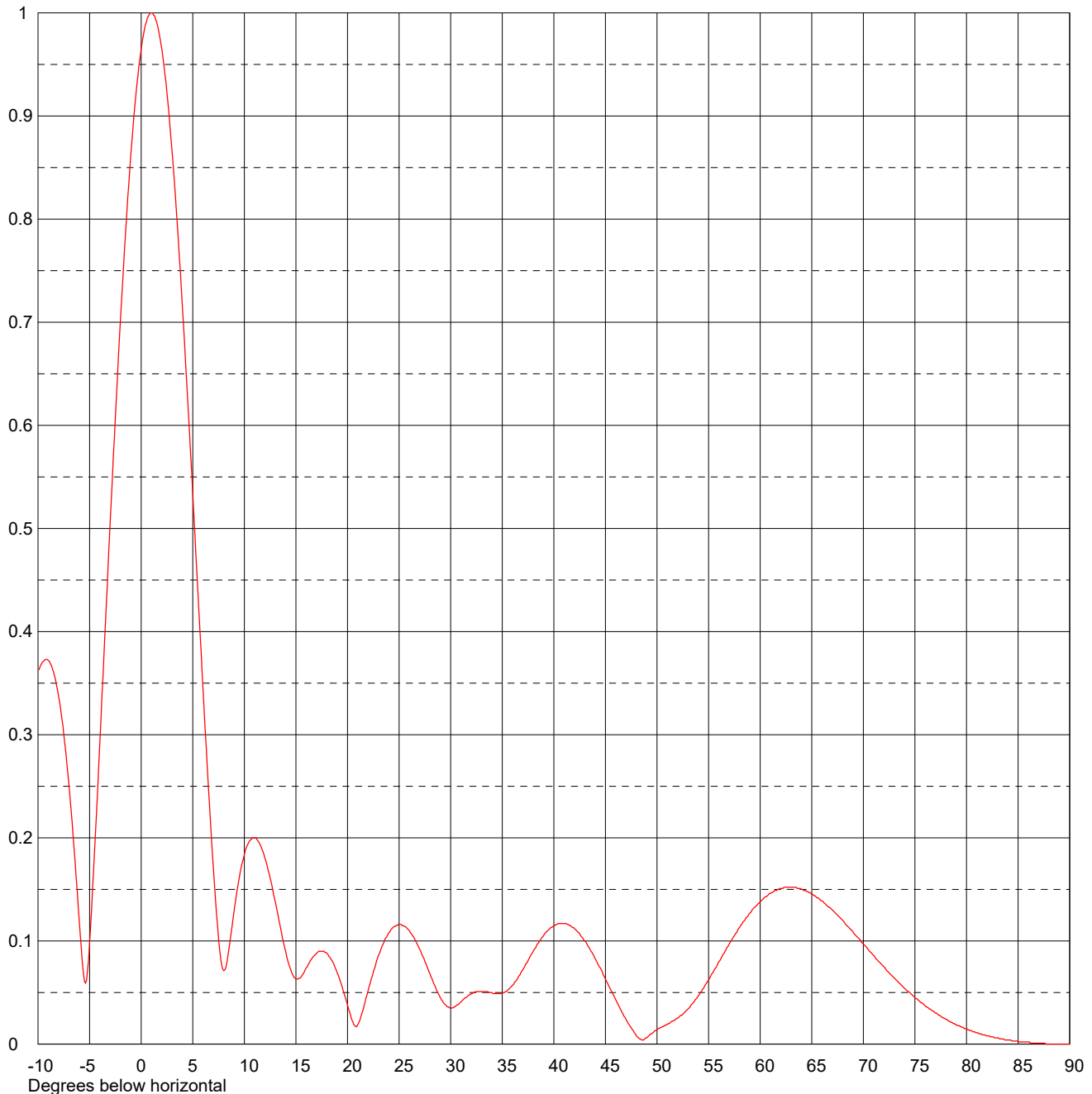
ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

8.0 (9.03 dB)
7.4 (8.69 dB)
Calculated

Beam Tilt
Frequency
Drawing #

1.00 Degrees
509.00 MHz
08B080100-90



Remarks:



SYSTEM SUMMARY

Antenna:

Type:	TFU-8DSB-F	ERP:	2.21 kW	H Pol (3.44 dBk)
Channel:	20	Peak Gain*:	28.8	(14.59 dB)
Location:	Miami, FL	Input Power:	0.08 kW	(-11.15 dBk)

Transmission Line:

Type:	FLEXLine®	Attenuation:	3.16 dB
Size:	2-1/4" 50 ohm	Efficiency:	48.3%
Length	700 ft	213 m	

Transmitter:

Peak TV Power Required (10% Aural):	0.16 kW	(-7.96 dBk)
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* Gain is with respect to half wave dipole.



MECHANICAL SPECIFICATIONS

Antenna:

Type: **TFU-8DSB-F**
Channel: **20**
Location: **Miami, FL**

Antenna Length (H2): **17.6 ft**

Center of Radiation (H3): **8.8 ft**

Weight: **250 lbs**

RS-222C Specification per RS-222-C

Area of Flats: **29.0 ft²**
Force Coef x Projected Area:

EIA-222F Specification per EIA 222-F

42.8 ft²