

# Pattern Envelope

Linear Co-Polarized

Antenna Type Number: ES93, ES93HS, ES93XHS

Frequency Band: 3.625-4.20 GHz

Gain: 50.5 dBi at 4.0 GHz

Diameter: 9.3 Meter

3 dB Beamwidth .51 Degrees      15 dB Beamwidth 1.0 Degrees

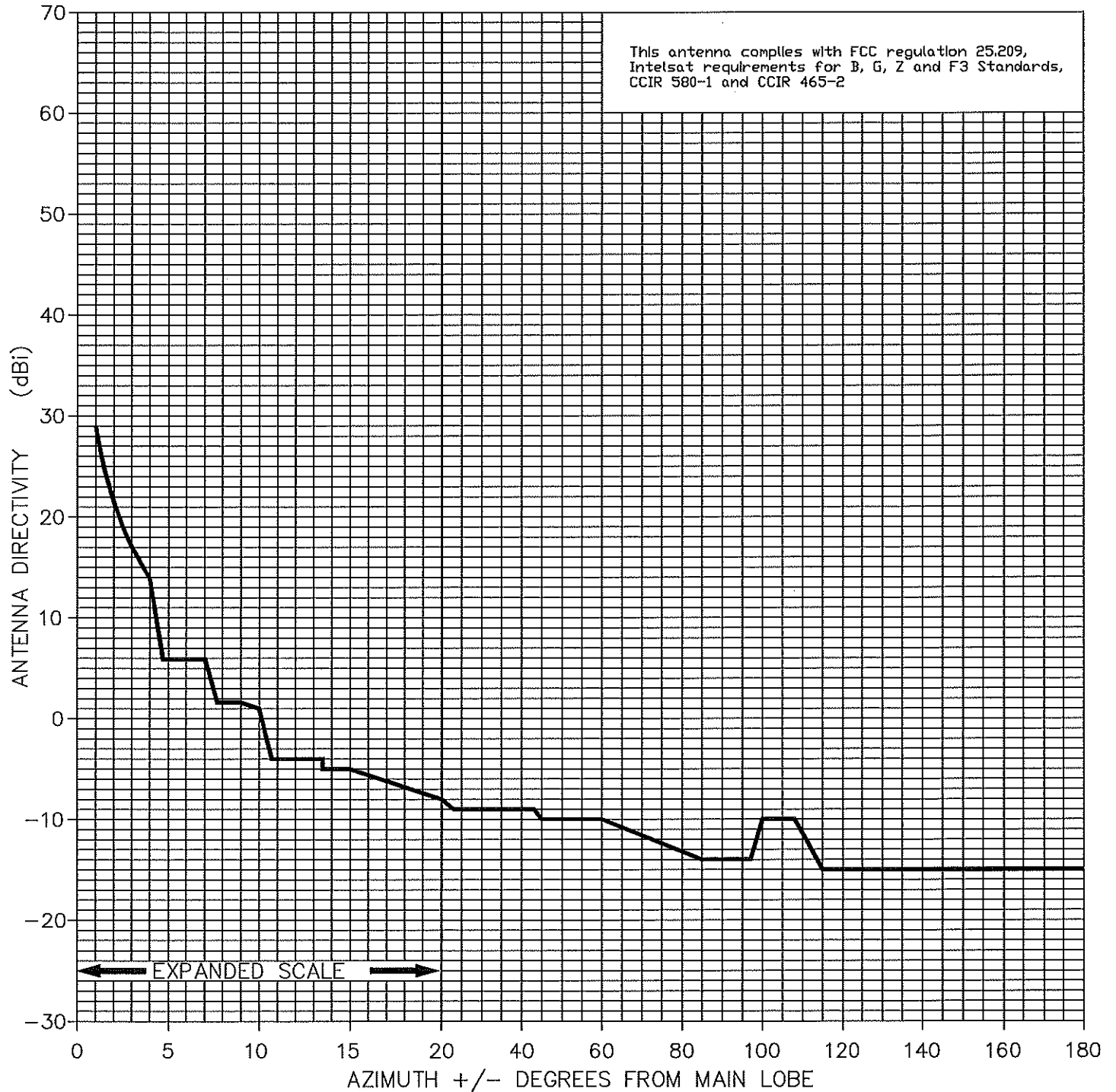
ANDREW CORPORATION



PE 5901

*Don Neuman*

Approved June 11, 1992



# PE 5901

ANTENNA TYPE NUMBERS: ES93, ES93HS, ES93XHS

JUNE 11, 1992

TABLE OF BREAK POINTS DEFINING THE PE (SEE NOTE)

ANGLE (+DEG)	CO (DB)	ANGLE (+DEG)	CO (DB)	ANGLE (+DEG)	CO (DBI)	ANGLE (+DEG)	CO (DBI)
1.0	21.5	13.5	54.5	1.0	29.0	13.5	-4.0
1.2	23.5	13.5	55.5	1.2	27.0	13.5	-5.0
1.5	25.9	15.0	55.5	1.5	24.6	15.0	-5.0
2.0	29.0	20.0	58.5	2.0	21.5	20.0	-8.0
2.5	31.5	23.0	59.5	2.5	19.0	23.0	-9.0
3.0	33.5	43.0	59.5	3.0	17.0	43.0	-9.0
3.5	35.1	45.0	60.5	3.5	15.4	45.0	-10.0
4.0	36.6	60.0	60.5	4.0	13.9	60.0	-10.0
4.7	44.6	85.0	64.5	4.7	5.9	85.0	-14.0
7.0	44.6	97.0	64.5	7.0	5.9	97.0	-14.0
7.7	48.9	100.0	60.5	7.7	1.6	100.0	-10.0
9.0	48.9	108.0	60.5	9.0	1.6	108.0	-10.0
10.0	49.5	115.0	65.5	10.0	1.0	115.0	-15.0
10.7	54.5	180.0	65.5	10.7	-4.0	180.0	-15.0

NOTE: THE PE IS DEFINED BY CONNECTING THESE POINTS WITH STRAIGHT LINES AS GRAPHICALLY DISPLAYED ON THE REVERSE SIDE.

# Pattern Envelope

Linear Co-Polarized

Antenna Type Number: ES93, ES93HS, ES93XHS

Frequency Band: 5.850-6.425 GHz

Gain: 54.0 dBi at 6.175 GHz

Diameter: 9.3 Meter

3 dB Beamwidth .34 Degrees      15 dB Beamwidth .65 Degrees

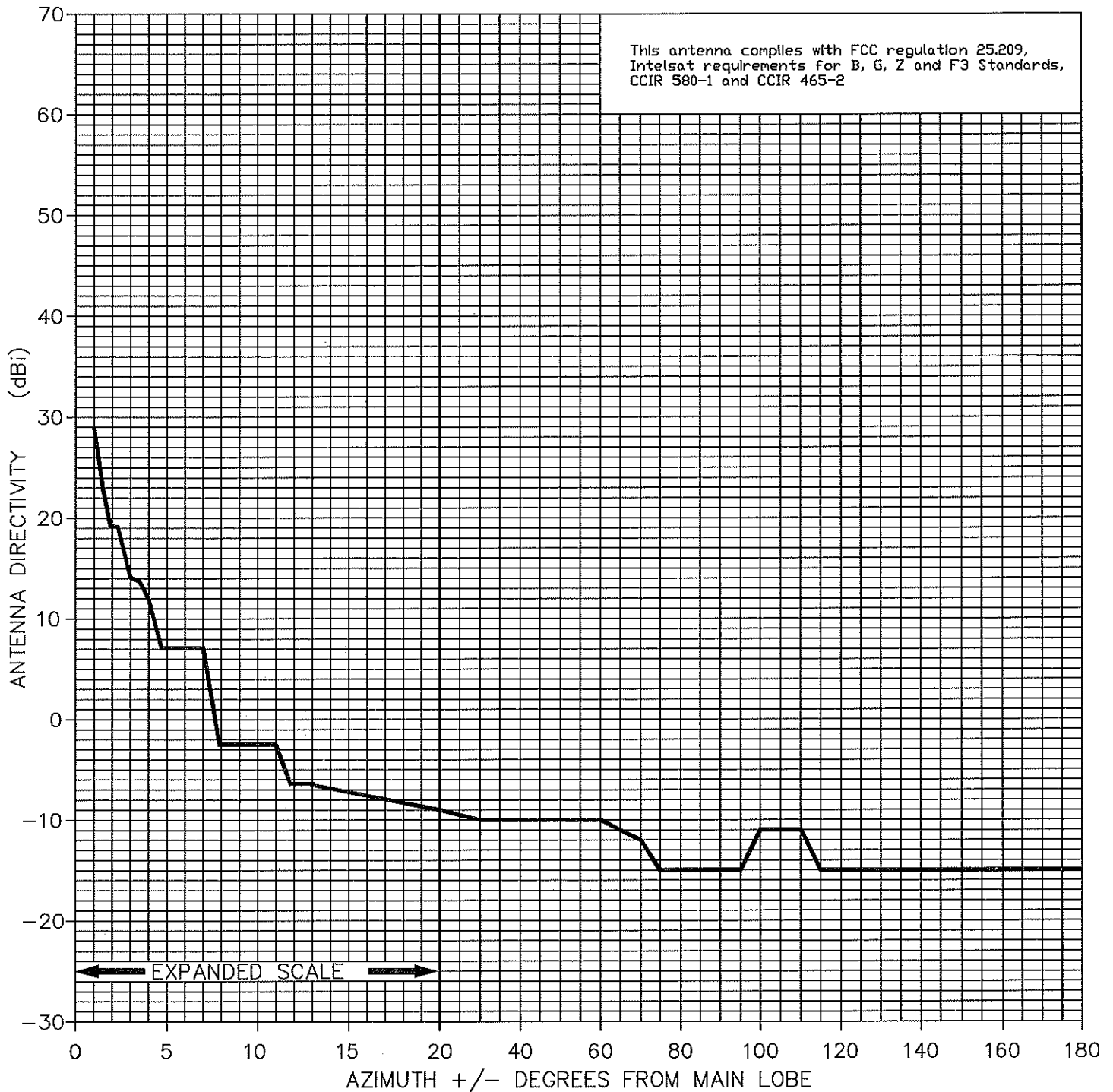
ANDREW CORPORATION



PE 5902

*Dave Neubauer*

Approved June 11, 1992



## PE 5902

ANTENNA TYPE NUMBERS: ES93, ES93HS, ES93XHS

JUNE 11, 1992

TABLE OF BREAK POINTS DEFINING THE PE (SEE NOTE)

ANGLE (+DEG)	CO (DB)	ANGLE (+DEG)	CO (DB)	ANGLE (+DEG)	CO (DBI)	ANGLE (+DEG)	CO (DBI)
1.0	25.0	13.0	60.4	1.0	29.0	13.0	-6.4
1.5	31.1	13.0	60.5	1.5	22.9	13.0	-6.5
1.9	34.7	20.0	63.0	1.9	19.3	20.0	-9.0
2.3	34.9	30.0	64.0	2.3	19.1	30.0	-10.0
3.0	39.9	60.0	64.0	3.0	14.1	60.0	-10.0
3.5	40.3	70.0	66.0	3.5	13.7	70.0	-12.0
4.0	42.1	75.0	69.0	4.0	11.9	75.0	-15.0
4.7	46.9	95.0	69.0	4.7	7.1	95.0	-15.0
7.0	46.9	100.0	65.0	7.0	7.1	100.0	-11.0
7.9	56.5	110.0	68.0	7.9	-2.5	110.0	-11.0
11.0	56.5	115.0	69.0	11.0	-2.5	115.0	-15.0
11.8	60.4	180.0	69.0	11.8	-6.4	180.0	-15.0

NOTE: THE PE IS DEFINED BY CONNECTING THESE POINTS WITH STRAIGHT LINES AS GRAPHICALLY DISPLAYED ON THE REVERSE SIDE.