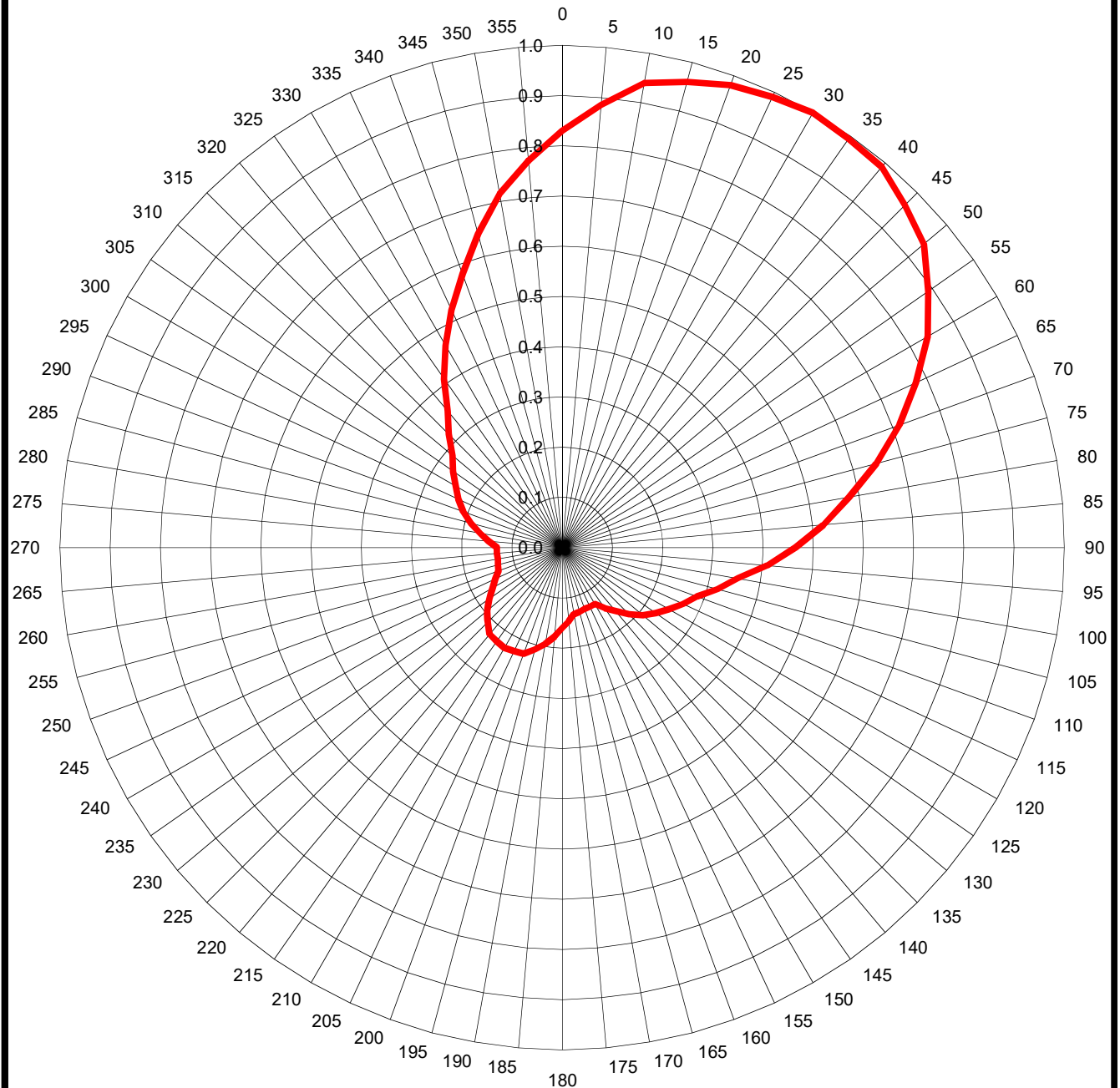


## AZIMUTH PATTERN RELATIVE FIELD CHART



**RF TECHNOLOGIES CORPORATION MODEL CS-2030-F-16**  
**030° AZIMUTH PATTERN ROTATION**  
**PEAK DIRECTIONAL GAIN: 17.84 dB**  
**ELECTRICAL BEAM TILT: 0.5°**

**Kessler and Gehman Associates, Inc.**



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507 NW 60th Street, Suite C  
Gainesville, FL 32607  
[www.kesslerandgehman.com](http://www.kesslerandgehman.com)

**WYKE-CD CHANNEL 24**  
**Inglis/Yankeetown, Florida**

20170407

# WYKE-CD CHANNEL 24

CITRUS COUNTY, FLORIDA

## TABULATION OF RELATIVE FIELD FOR PROPOSED DIRECTIONAL ANTENNA

<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>	<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>
N000°E	0.830	N180°E	0.160
N010°E	0.940	N190°E	0.195
N020°E	0.980	N200°E	0.225
N030°E	1.000	N210°E	0.230
N040°E	0.990	N220°E	0.225
N050°E	0.940	N230°E	0.195
N060°E	0.840	N240°E	0.160
N070°E	0.715	N250°E	0.135
N080°E	0.580	N260°E	0.130
N090°E	0.465	N270°E	0.130
N100°E	0.355	N280°E	0.165
N110°E	0.285	N290°E	0.210
N120°E	0.245	N300°E	0.245
N130°E	0.210	N310°E	0.285
N140°E	0.165	N320°E	0.355
N150°E	0.130	N330°E	0.465
N160°E	0.130	N340°E	0.580
N170°E	0.135	N350°E	0.715

MAXIMUM RELATIVE FIELD OF 1.000 AT N030°E

MINIMUM RELATIVE FIELD OF 0.130 AT N150°E, N160°E, N260°E & N270°E

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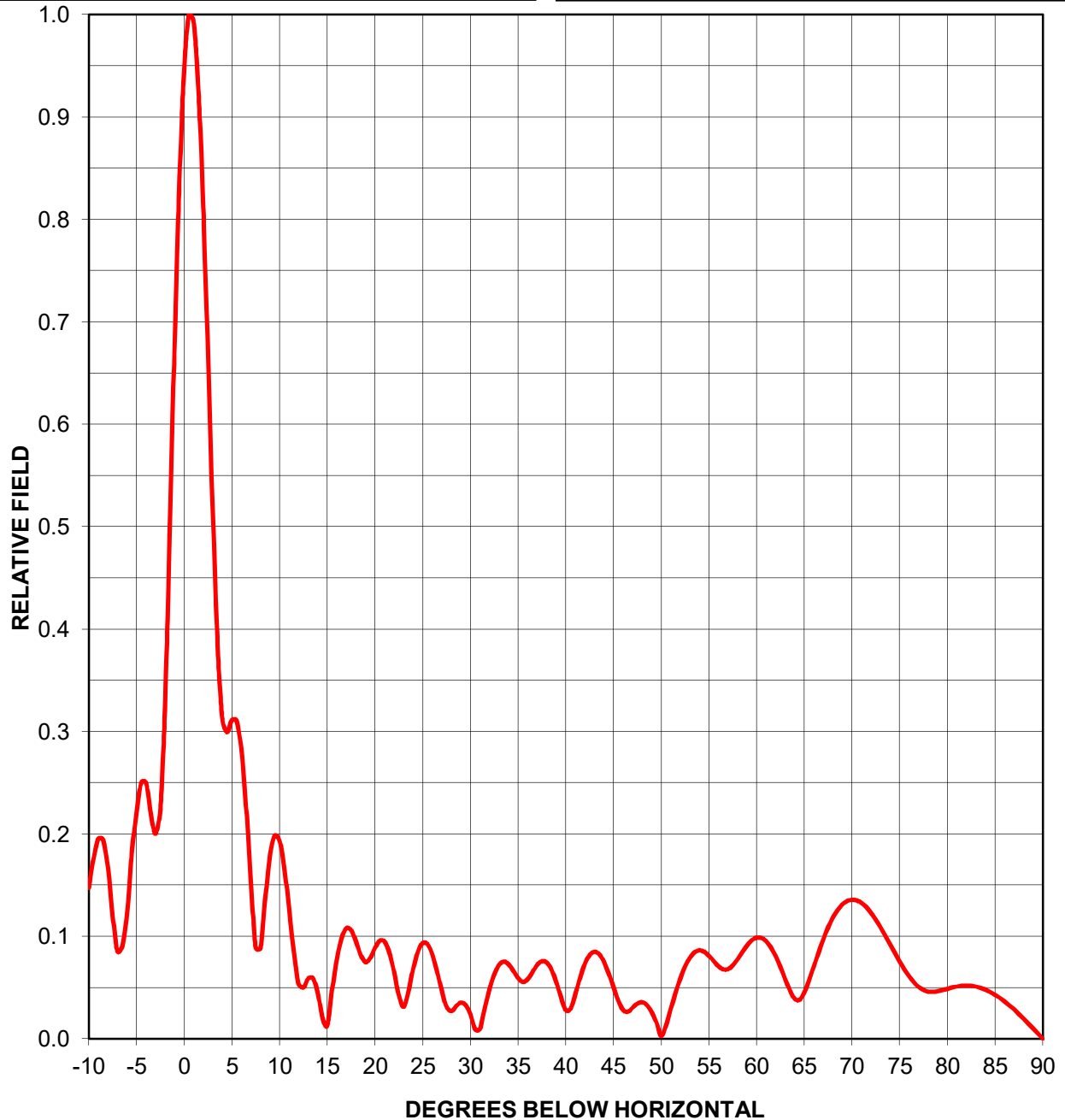
20170407

# ELEVATION PATTERN

## *RF Technologies Corporation Model CS-2030-F-16 Antenna*

GAIN AT MAIN LOBE:	60.8 (17.84 dB)
GAIN AT HORIZONTAL:	54.8 (17.39 dB)
CALCULATED/MEASURED:	CALCULATED

ELECTRICAL BEAM TILT:	0.5°
MECHANICAL BEAM TILT:	N/A
FREQUENCY:	668 - 674 MHz



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# WYKE-CD CHANNEL 24

## TABULATION OF RELATIVE FIELD FOR PROPOSED DIRECTIONAL ANTENNA

ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD
-10.0	0.147	7.0	0.153	24.0	0.068	41.0	0.043	58.0	0.077	75.0	0.076
-9.5	0.176	7.5	0.089	24.5	0.085	41.5	0.059	58.5	0.084	75.5	0.068
-9.0	0.195	8.0	0.088	25.0	0.093	42.0	0.073	59.0	0.091	76.0	0.061
-8.5	0.194	8.5	0.137	25.5	0.092	42.5	0.082	59.5	0.096	76.5	0.055
-8.0	0.168	9.0	0.179	26.0	0.082	43.0	0.085	60.0	0.099	77.0	0.051
-7.5	0.121	9.5	0.198	26.5	0.066	43.5	0.082	60.5	0.098	77.5	0.048
-7.0	0.085	10.0	0.193	27.0	0.047	44.0	0.075	61.0	0.095	78.0	0.046
-6.5	0.090	10.5	0.167	27.5	0.031	44.5	0.064	61.5	0.089	78.5	0.046
-6.0	0.120	11.0	0.127	28.0	0.027	45.0	0.050	62.0	0.081	79.0	0.046
-5.5	0.180	11.5	0.084	28.5	0.032	45.5	0.037	62.5	0.070	79.5	0.047
-5.0	0.220	12.0	0.053	29.0	0.035	46.0	0.028	63.0	0.059	80.0	0.049
-4.5	0.250	12.5	0.050	29.5	0.033	46.5	0.026	63.5	0.047	80.5	0.050
-4.0	0.250	13.0	0.059	30.0	0.024	47.0	0.030	64.0	0.039	81.0	0.051
-3.5	0.220	13.5	0.059	30.5	0.009	47.5	0.034	64.5	0.038	81.5	0.052
-3.0	0.200	14.0	0.045	31.0	0.009	48.0	0.036	65.0	0.045	82.0	0.052
-2.5	0.224	14.5	0.020	31.5	0.029	48.5	0.033	65.5	0.057	82.5	0.052
-2.0	0.328	15.0	0.013	32.0	0.048	49.0	0.026	66.0	0.070	83.0	0.051
-1.5	0.500	15.5	0.047	32.5	0.063	49.5	0.016	66.5	0.084	83.5	0.050
-1.0	0.680	16.0	0.077	33.0	0.072	50.0	0.003	67.0	0.097	84.0	0.048
-0.5	0.835	16.5	0.098	33.5	0.075	50.5	0.013	67.5	0.108	84.5	0.046
0.0	0.946	17.0	0.108	34.0	0.073	51.0	0.029	68.0	0.118	85.0	0.043
0.5	1.000	17.5	0.106	34.5	0.066	51.5	0.044	68.5	0.126	85.5	0.040
1.0	0.992	18.0	0.095	35.0	0.059	52.0	0.058	69.0	0.131	86.0	0.036
1.5	0.926	18.5	0.082	35.5	0.055	52.5	0.070	69.5	0.134	86.5	0.033
2.0	0.812	19.0	0.075	36.0	0.058	53.0	0.079	70.0	0.136	87.0	0.028
2.5	0.667	19.5	0.079	36.5	0.065	53.5	0.084	70.5	0.135	87.5	0.024
3.0	0.515	20.0	0.088	37.0	0.072	54.0	0.086	71.0	0.133	88.0	0.020
3.5	0.386	20.5	0.096	37.5	0.076	54.5	0.085	71.5	0.129	88.5	0.015
4.0	0.312	21.0	0.095	38.0	0.074	55.0	0.081	72.0	0.123	89.0	0.010
4.5	0.299	21.5	0.084	38.5	0.067	55.5	0.076	72.5	0.116	89.5	0.005
5.0	0.311	22.0	0.065	39.0	0.056	56.0	0.071	73.0	0.109	90.0	0.000
5.5	0.310	22.5	0.043	39.5	0.041	56.5	0.068	73.5	0.101		
6.0	0.282	23.0	0.031	40.0	0.028	57.0	0.068	74.0	0.092		
6.5	0.226	23.5	0.046	40.5	0.029	57.5	0.071	74.5	0.084		

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