



| | | | |
|--------------|--------------------|---------|----|
| Date | 13 Aug 2001 | Channel | 21 |
| Call Letters | NEW | | |
| Location | Roswell, NM | | |
| Customer | Acme Television | | |
| Antenna Type | TFU-29JSC-R 3BP260 | | |

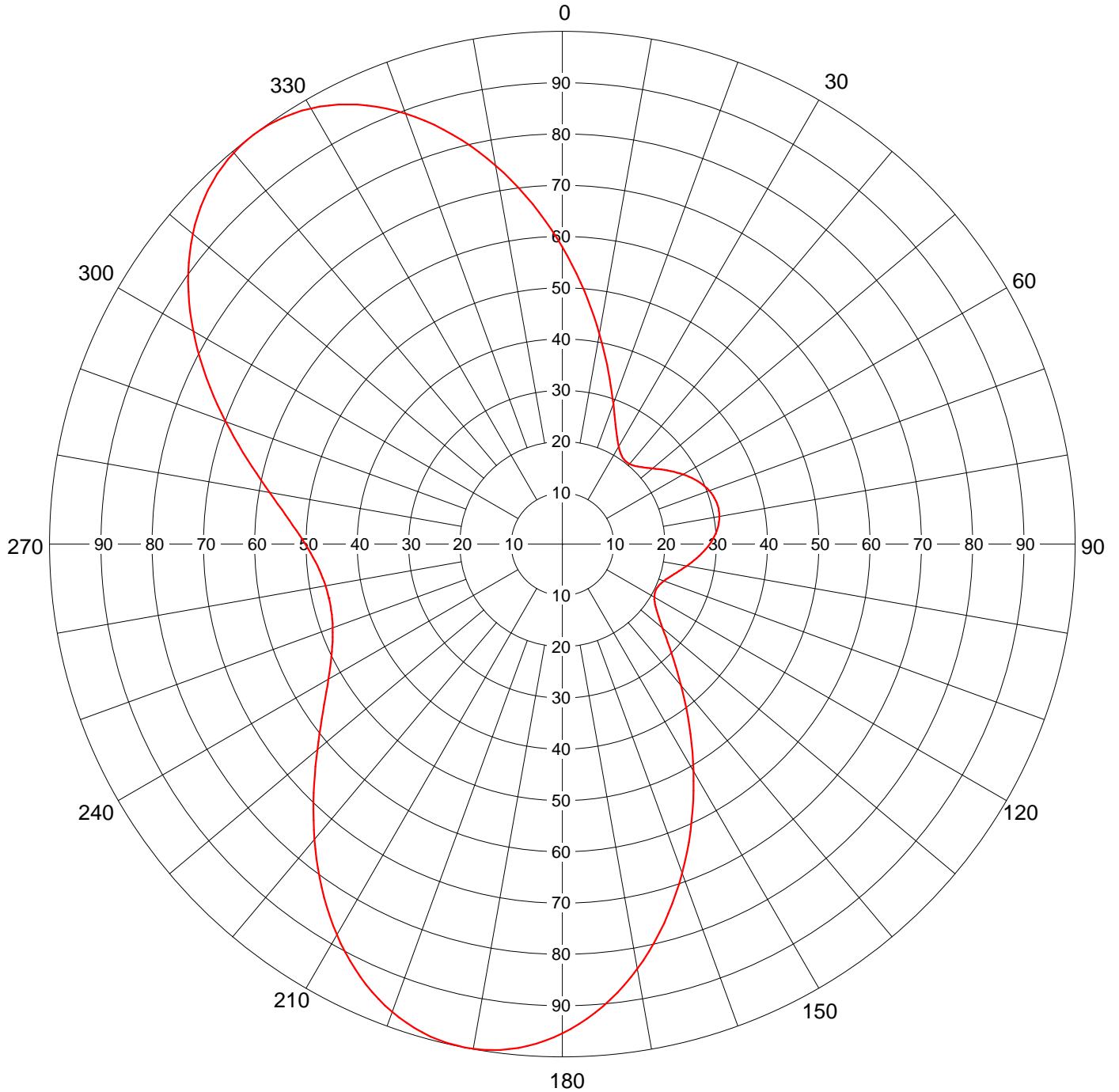
AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

2.60 (4.15 dB)
Calculated

Frequency
Drawing #

515 MHz
TFU-3BP260



Remarks:



Date **13 Aug 2001**
Call Letters **NEW** Channel **21**
Location **Roswell, NM**
Customer **Acme Television**
Antenna Type **TFU-29JSC-R 3BP260**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TFU-3BP260**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.579 | 45 | 0.213 | 90 | 0.287 | 135 | 0.301 | 180 | 0.954 | 225 | 0.686 | 270 | 0.501 | 315 | 0.977 |
| 1 | 0.562 | 46 | 0.216 | 91 | 0.284 | 136 | 0.312 | 181 | 0.962 | 226 | 0.673 | 271 | 0.507 | 316 | 0.982 |
| 2 | 0.545 | 47 | 0.219 | 92 | 0.280 | 137 | 0.323 | 182 | 0.969 | 227 | 0.660 | 272 | 0.513 | 317 | 0.987 |
| 3 | 0.528 | 48 | 0.222 | 93 | 0.276 | 138 | 0.335 | 183 | 0.976 | 228 | 0.648 | 273 | 0.520 | 318 | 0.991 |
| 4 | 0.511 | 49 | 0.226 | 94 | 0.272 | 139 | 0.347 | 184 | 0.981 | 229 | 0.635 | 274 | 0.527 | 319 | 0.994 |
| 5 | 0.495 | 50 | 0.230 | 95 | 0.268 | 140 | 0.360 | 185 | 0.986 | 230 | 0.624 | 275 | 0.534 | 320 | 0.996 |
| 6 | 0.479 | 51 | 0.233 | 96 | 0.263 | 141 | 0.374 | 186 | 0.990 | 231 | 0.612 | 276 | 0.543 | 321 | 0.999 |
| 7 | 0.462 | 52 | 0.238 | 97 | 0.259 | 142 | 0.388 | 187 | 0.994 | 232 | 0.601 | 277 | 0.551 | 322 | 0.999 |
| 8 | 0.447 | 53 | 0.242 | 98 | 0.255 | 143 | 0.402 | 188 | 0.996 | 233 | 0.590 | 278 | 0.560 | 323 | 1.000 |
| 9 | 0.431 | 54 | 0.246 | 99 | 0.250 | 144 | 0.416 | 189 | 0.998 | 234 | 0.580 | 279 | 0.570 | 324 | 0.999 |
| 10 | 0.416 | 55 | 0.250 | 100 | 0.246 | 145 | 0.431 | 190 | 0.999 | 235 | 0.570 | 280 | 0.580 | 325 | 0.998 |
| 11 | 0.402 | 56 | 0.255 | 101 | 0.242 | 146 | 0.447 | 191 | 1.000 | 236 | 0.560 | 281 | 0.590 | 326 | 0.996 |
| 12 | 0.388 | 57 | 0.259 | 102 | 0.238 | 147 | 0.462 | 192 | 0.999 | 237 | 0.551 | 282 | 0.601 | 327 | 0.994 |
| 13 | 0.374 | 58 | 0.263 | 103 | 0.233 | 148 | 0.479 | 193 | 0.999 | 238 | 0.543 | 283 | 0.612 | 328 | 0.990 |
| 14 | 0.360 | 59 | 0.268 | 104 | 0.230 | 149 | 0.495 | 194 | 0.996 | 239 | 0.534 | 284 | 0.624 | 329 | 0.986 |
| 15 | 0.347 | 60 | 0.272 | 105 | 0.226 | 150 | 0.511 | 195 | 0.994 | 240 | 0.527 | 285 | 0.635 | 330 | 0.981 |
| 16 | 0.335 | 61 | 0.276 | 106 | 0.222 | 151 | 0.528 | 196 | 0.991 | 241 | 0.520 | 286 | 0.648 | 331 | 0.976 |
| 17 | 0.323 | 62 | 0.280 | 107 | 0.219 | 152 | 0.545 | 197 | 0.987 | 242 | 0.513 | 287 | 0.660 | 332 | 0.969 |
| 18 | 0.312 | 63 | 0.284 | 108 | 0.216 | 153 | 0.562 | 198 | 0.982 | 243 | 0.507 | 288 | 0.673 | 333 | 0.962 |
| 19 | 0.301 | 64 | 0.287 | 109 | 0.213 | 154 | 0.579 | 199 | 0.977 | 244 | 0.501 | 289 | 0.686 | 334 | 0.954 |
| 20 | 0.291 | 65 | 0.291 | 110 | 0.211 | 155 | 0.597 | 200 | 0.971 | 245 | 0.496 | 290 | 0.699 | 335 | 0.946 |
| 21 | 0.281 | 66 | 0.294 | 111 | 0.208 | 156 | 0.614 | 201 | 0.964 | 246 | 0.491 | 291 | 0.712 | 336 | 0.936 |
| 22 | 0.272 | 67 | 0.297 | 112 | 0.207 | 157 | 0.631 | 202 | 0.957 | 247 | 0.487 | 292 | 0.725 | 337 | 0.927 |
| 23 | 0.263 | 68 | 0.300 | 113 | 0.205 | 158 | 0.648 | 203 | 0.949 | 248 | 0.483 | 293 | 0.739 | 338 | 0.916 |
| 24 | 0.256 | 69 | 0.303 | 114 | 0.204 | 159 | 0.666 | 204 | 0.940 | 249 | 0.480 | 294 | 0.752 | 339 | 0.905 |
| 25 | 0.248 | 70 | 0.305 | 115 | 0.203 | 160 | 0.683 | 205 | 0.932 | 250 | 0.477 | 295 | 0.765 | 340 | 0.893 |
| 26 | 0.241 | 71 | 0.307 | 116 | 0.203 | 161 | 0.700 | 206 | 0.922 | 251 | 0.474 | 296 | 0.779 | 341 | 0.881 |
| 27 | 0.235 | 72 | 0.308 | 117 | 0.203 | 162 | 0.717 | 207 | 0.912 | 252 | 0.472 | 297 | 0.792 | 342 | 0.868 |
| 28 | 0.229 | 73 | 0.310 | 118 | 0.204 | 163 | 0.733 | 208 | 0.902 | 253 | 0.470 | 298 | 0.805 | 343 | 0.855 |
| 29 | 0.224 | 74 | 0.311 | 119 | 0.205 | 164 | 0.750 | 209 | 0.891 | 254 | 0.469 | 299 | 0.818 | 344 | 0.841 |
| 30 | 0.220 | 75 | 0.312 | 120 | 0.207 | 165 | 0.766 | 210 | 0.879 | 255 | 0.468 | 300 | 0.831 | 345 | 0.827 |
| 31 | 0.216 | 76 | 0.312 | 121 | 0.209 | 166 | 0.782 | 211 | 0.868 | 256 | 0.467 | 301 | 0.844 | 346 | 0.812 |
| 32 | 0.213 | 77 | 0.312 | 122 | 0.213 | 167 | 0.797 | 212 | 0.856 | 257 | 0.467 | 302 | 0.856 | 347 | 0.797 |
| 33 | 0.209 | 78 | 0.312 | 123 | 0.216 | 168 | 0.812 | 213 | 0.844 | 258 | 0.467 | 303 | 0.868 | 348 | 0.782 |
| 34 | 0.207 | 79 | 0.312 | 124 | 0.220 | 169 | 0.827 | 214 | 0.831 | 259 | 0.468 | 304 | 0.879 | 349 | 0.766 |
| 35 | 0.205 | 80 | 0.311 | 125 | 0.224 | 170 | 0.841 | 215 | 0.818 | 260 | 0.469 | 305 | 0.891 | 350 | 0.750 |
| 36 | 0.204 | 81 | 0.310 | 126 | 0.229 | 171 | 0.855 | 216 | 0.805 | 261 | 0.470 | 306 | 0.902 | 351 | 0.733 |
| 37 | 0.203 | 82 | 0.308 | 127 | 0.235 | 172 | 0.868 | 217 | 0.792 | 262 | 0.472 | 307 | 0.912 | 352 | 0.717 |
| 38 | 0.203 | 83 | 0.307 | 128 | 0.241 | 173 | 0.881 | 218 | 0.779 | 263 | 0.474 | 308 | 0.922 | 353 | 0.700 |
| 39 | 0.203 | 84 | 0.305 | 129 | 0.248 | 174 | 0.893 | 219 | 0.765 | 264 | 0.477 | 309 | 0.932 | 354 | 0.683 |
| 40 | 0.204 | 85 | 0.303 | 130 | 0.256 | 175 | 0.905 | 220 | 0.752 | 265 | 0.480 | 310 | 0.940 | 355 | 0.666 |
| 41 | 0.205 | 86 | 0.300 | 131 | 0.263 | 176 | 0.916 | 221 | 0.739 | 266 | 0.483 | 311 | 0.949 | 356 | 0.648 |
| 42 | 0.207 | 87 | 0.297 | 132 | 0.272 | 177 | 0.927 | 222 | 0.725 | 267 | 0.487 | 312 | 0.957 | 357 | 0.631 |
| 43 | 0.208 | 88 | 0.294 | 133 | 0.281 | 178 | 0.936 | 223 | 0.712 | 268 | 0.491 | 313 | 0.964 | 358 | 0.614 |
| 44 | 0.211 | 89 | 0.291 | 134 | 0.291 | 179 | 0.946 | 224 | 0.699 | 269 | 0.496 | 314 | 0.971 | 359 | 0.597 |

Remarks:



| | | |
|--------------|--------------------|------------|
| Date | 13 Aug 2001 | |
| Call Letters | NEW | Channel 21 |
| Location | Roswell, NM | |
| Customer | Acme Television | |
| Antenna Type | TFU-29JSC-R 3BP260 | |

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TFU-3BP260**

| Angle | Field | ERP (kW) | ERP (dBk) |
|-------|-------|----------|-----------|
| 0 | 0.579 | 1676.2 | 32.24 |
| 10 | 0.416 | 865.3 | 29.37 |
| 20 | 0.291 | 423.4 | 26.27 |
| 30 | 0.220 | 242.0 | 23.84 |
| 40 | 0.204 | 208.1 | 23.18 |
| 50 | 0.230 | 264.5 | 24.22 |
| 60 | 0.272 | 369.9 | 25.68 |
| 70 | 0.305 | 465.1 | 26.68 |
| 80 | 0.311 | 483.6 | 26.84 |
| 90 | 0.287 | 411.8 | 26.15 |
| 100 | 0.246 | 302.6 | 24.81 |
| 110 | 0.211 | 222.6 | 23.48 |
| 120 | 0.207 | 214.2 | 23.31 |
| 130 | 0.256 | 327.7 | 25.15 |
| 140 | 0.360 | 648.0 | 28.12 |
| 150 | 0.511 | 1305.6 | 31.16 |
| 160 | 0.683 | 2332.4 | 33.68 |
| 170 | 0.841 | 3536.4 | 35.49 |
| 180 | 0.954 | 4550.6 | 36.58 |
| 190 | 0.999 | 4990.0 | 36.98 |
| 200 | 0.971 | 4714.2 | 36.73 |
| 210 | 0.879 | 3863.2 | 35.87 |
| 220 | 0.752 | 2827.5 | 34.51 |
| 230 | 0.624 | 1946.9 | 32.89 |
| 240 | 0.527 | 1388.6 | 31.43 |
| 250 | 0.477 | 1137.6 | 30.56 |
| 260 | 0.469 | 1099.8 | 30.41 |
| 270 | 0.501 | 1255.0 | 30.99 |
| 280 | 0.580 | 1682.0 | 32.26 |
| 290 | 0.699 | 2443.0 | 33.88 |
| 300 | 0.831 | 3452.8 | 35.38 |
| 310 | 0.940 | 4418.0 | 36.45 |
| 320 | 0.996 | 4960.1 | 36.95 |
| 330 | 0.981 | 4811.8 | 36.82 |
| 340 | 0.893 | 3987.2 | 36.01 |
| 350 | 0.750 | 2812.5 | 34.49 |

Maxima

| Angle | Field | ERP (kW) | ERP (dBk) |
|-------|-------|----------|-----------|
| 77 | 0.312 | 486.7 | 26.87 |
| 191 | 1.000 | 5000.0 | 36.99 |
| 323 | 1.000 | 5000.0 | 36.99 |

Minima

| Angle | Field | ERP (kW) | ERP (dBk) |
|-------|-------|----------|-----------|
| 39 | 0.203 | 206.0 | 23.14 |
| 115 | 0.203 | 206.0 | 23.14 |
| 257 | 0.467 | 1090.4 | 30.38 |

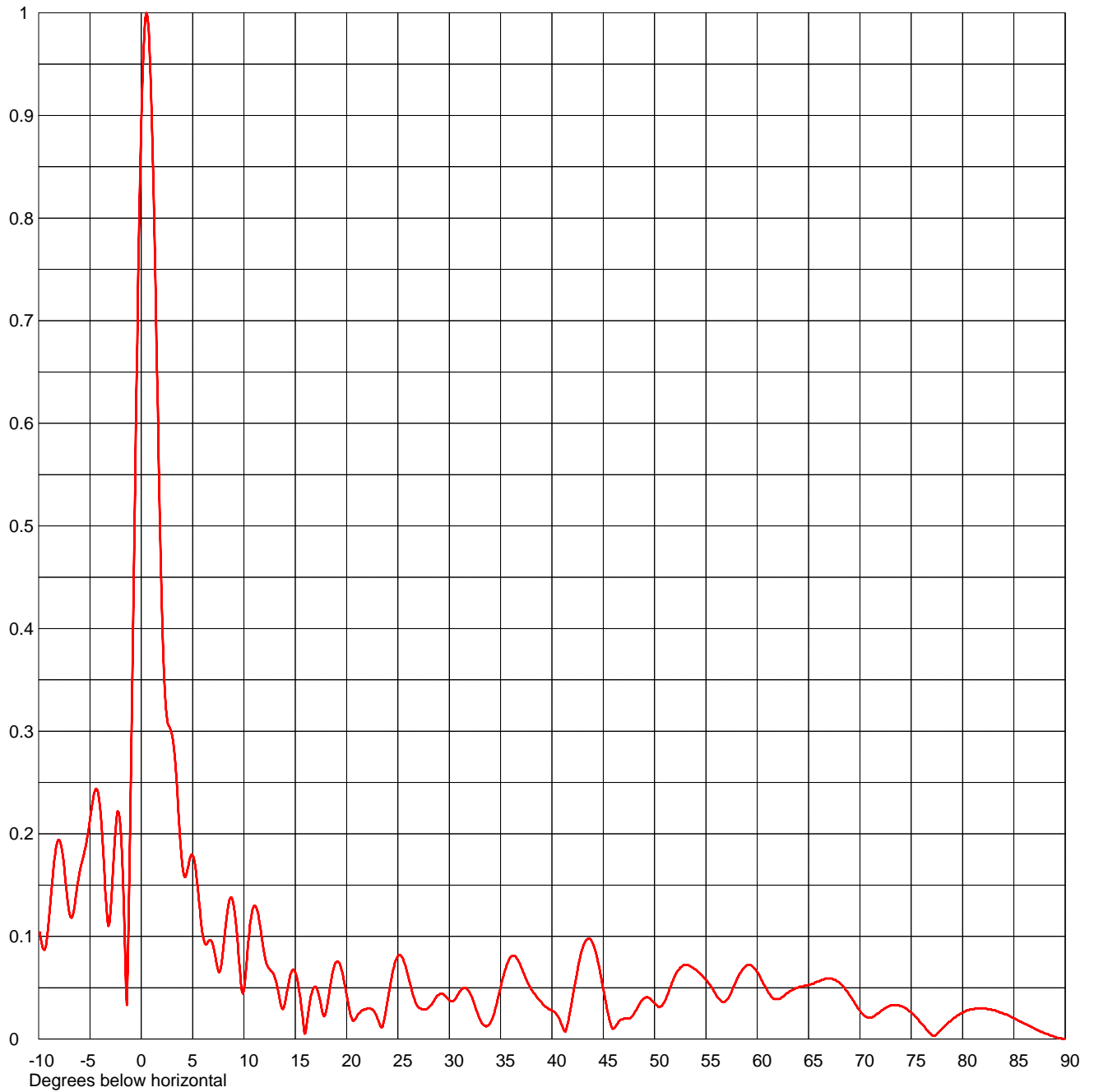
Remarks:



| | | | |
|--------------|--------------------|---------|----|
| Date | 13 Aug 2001 | Channel | 21 |
| Call Letters | NEW | | |
| Location | Roswell, NM | | |
| Customer | Acme Television | | |
| Antenna Type | TFU-29JSC-R 3BP260 | | |

ELEVATION PATTERN

| | | | |
|------------------------|-----------------|-----------|--------------|
| RMS Gain at Main Lobe | 25.5 (14.07 dB) | Beam Tilt | 0.50 Degrees |
| RMS Gain at Horizontal | 20.4 (13.10 dB) | Frequency | 515.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 29Z255050-90 |



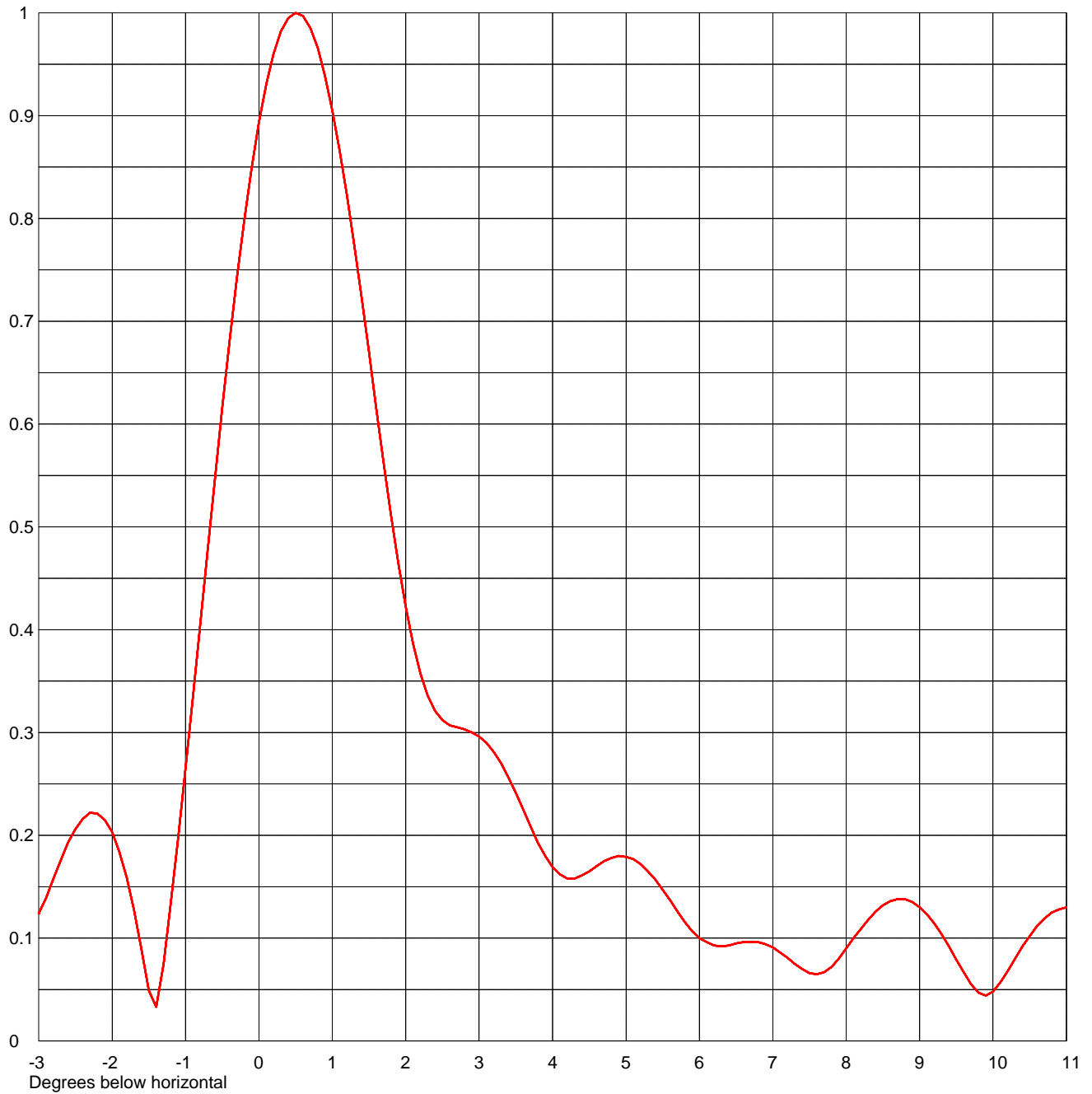
Remarks:



| | | | |
|--------------|--------------------|---------|----|
| Date | 13 Aug 2001 | Channel | 21 |
| Call Letters | NEW | | |
| Location | Roswell, NM | | |
| Customer | Acme Television | | |
| Antenna Type | TFU-29JSC-R 3BP260 | | |

ELEVATION PATTERN

| | | | |
|------------------------|-----------------|-----------|--------------|
| RMS Gain at Main Lobe | 25.5 (14.07 dB) | Beam Tilt | 0.50 Degrees |
| RMS Gain at Horizontal | 20.4 (13.10 dB) | Frequency | 515.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 29Z255050 |



Remarks:



| | | | |
|--------------|---------------------------|---------|-----------|
| Date | 13 Aug 2001 | Channel | 21 |
| Call Letters | NEW | | |
| Location | Roswell, NM | | |
| Customer | Acme Television | | |
| Antenna Type | TFU-29JSC-R 3BP260 | | |

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **29Z255050**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.110 | 2.4 | 0.321 | 10.6 | 0.112 | 30.5 | 0.038 | 51.0 | 0.037 | 71.5 | 0.023 |
| -9.5 | 0.087 | 2.6 | 0.307 | 10.8 | 0.125 | 31.0 | 0.046 | 51.5 | 0.050 | 72.0 | 0.027 |
| -9.0 | 0.117 | 2.8 | 0.303 | 11.0 | 0.130 | 31.5 | 0.050 | 52.0 | 0.062 | 72.5 | 0.030 |
| -8.5 | 0.172 | 3.0 | 0.296 | 11.5 | 0.115 | 32.0 | 0.045 | 52.5 | 0.070 | 73.0 | 0.033 |
| -8.0 | 0.194 | 3.2 | 0.281 | 12.0 | 0.082 | 32.5 | 0.032 | 53.0 | 0.072 | 73.5 | 0.033 |
| -7.5 | 0.166 | 3.4 | 0.256 | 12.5 | 0.068 | 33.0 | 0.019 | 53.5 | 0.071 | 74.0 | 0.032 |
| -7.0 | 0.122 | 3.6 | 0.225 | 13.0 | 0.060 | 33.5 | 0.013 | 54.0 | 0.068 | 74.5 | 0.030 |
| -6.5 | 0.130 | 3.8 | 0.193 | 13.5 | 0.037 | 34.0 | 0.016 | 54.5 | 0.063 | 75.0 | 0.026 |
| -6.0 | 0.163 | 4.0 | 0.169 | 14.0 | 0.035 | 34.5 | 0.030 | 55.0 | 0.058 | 75.5 | 0.021 |
| -5.5 | 0.184 | 4.2 | 0.158 | 14.5 | 0.062 | 35.0 | 0.050 | 55.5 | 0.051 | 76.0 | 0.015 |
| -5.0 | 0.214 | 4.4 | 0.161 | 15.0 | 0.065 | 35.5 | 0.069 | 56.0 | 0.043 | 76.5 | 0.009 |
| -4.5 | 0.243 | 4.6 | 0.170 | 15.5 | 0.039 | 36.0 | 0.080 | 56.5 | 0.037 | 77.0 | 0.004 |
| -4.0 | 0.224 | 4.8 | 0.178 | 16.0 | 0.006 | 36.5 | 0.080 | 57.0 | 0.038 | 77.5 | 0.005 |
| -3.5 | 0.144 | 5.0 | 0.179 | 16.5 | 0.041 | 37.0 | 0.070 | 57.5 | 0.046 | 78.0 | 0.010 |
| -3.0 | 0.124 | 5.2 | 0.172 | 17.0 | 0.051 | 37.5 | 0.058 | 58.0 | 0.058 | 78.5 | 0.015 |
| -2.8 | 0.158 | 5.4 | 0.157 | 17.5 | 0.033 | 38.0 | 0.048 | 58.5 | 0.067 | 79.0 | 0.019 |
| -2.6 | 0.193 | 5.6 | 0.137 | 18.0 | 0.027 | 38.5 | 0.041 | 59.0 | 0.072 | 79.5 | 0.023 |
| -2.4 | 0.216 | 5.8 | 0.116 | 18.5 | 0.058 | 39.0 | 0.036 | 59.5 | 0.071 | 80.0 | 0.026 |
| -2.2 | 0.221 | 6.0 | 0.100 | 19.0 | 0.075 | 39.5 | 0.031 | 60.0 | 0.065 | 80.5 | 0.028 |
| -2.0 | 0.203 | 6.2 | 0.093 | 19.5 | 0.068 | 40.0 | 0.028 | 60.5 | 0.056 | 81.0 | 0.029 |
| -1.8 | 0.159 | 6.4 | 0.093 | 20.0 | 0.043 | 40.5 | 0.023 | 61.0 | 0.047 | 81.5 | 0.030 |
| -1.6 | 0.089 | 6.6 | 0.096 | 20.5 | 0.020 | 41.0 | 0.013 | 61.5 | 0.040 | 82.0 | 0.030 |
| -1.4 | 0.033 | 6.8 | 0.096 | 21.0 | 0.022 | 41.5 | 0.013 | 62.0 | 0.039 | 82.5 | 0.029 |
| -1.2 | 0.134 | 7.0 | 0.091 | 21.5 | 0.028 | 42.0 | 0.040 | 62.5 | 0.041 | 83.0 | 0.028 |
| -1.0 | 0.265 | 7.2 | 0.081 | 22.0 | 0.030 | 42.5 | 0.068 | 63.0 | 0.045 | 83.5 | 0.027 |
| -0.8 | 0.405 | 7.4 | 0.070 | 22.5 | 0.029 | 43.0 | 0.089 | 63.5 | 0.048 | 84.0 | 0.025 |
| -0.6 | 0.547 | 7.6 | 0.065 | 23.0 | 0.020 | 43.5 | 0.098 | 64.0 | 0.050 | 84.5 | 0.023 |
| -0.4 | 0.680 | 7.8 | 0.072 | 23.5 | 0.012 | 44.0 | 0.093 | 64.5 | 0.051 | 85.0 | 0.020 |
| -0.2 | 0.798 | 8.0 | 0.090 | 24.0 | 0.038 | 44.5 | 0.075 | 65.0 | 0.053 | 85.5 | 0.018 |
| 0.0 | 0.894 | 8.2 | 0.109 | 24.5 | 0.066 | 45.0 | 0.049 | 65.5 | 0.054 | 86.0 | 0.015 |
| 0.2 | 0.960 | 8.4 | 0.126 | 25.0 | 0.081 | 45.5 | 0.023 | 66.0 | 0.056 | 86.5 | 0.013 |
| 0.4 | 0.995 | 8.6 | 0.136 | 25.5 | 0.078 | 46.0 | 0.010 | 66.5 | 0.058 | 87.0 | 0.010 |
| 0.6 | 0.997 | 8.8 | 0.138 | 26.0 | 0.061 | 46.5 | 0.017 | 67.0 | 0.059 | 87.5 | 0.008 |
| 0.8 | 0.966 | 9.0 | 0.130 | 26.5 | 0.042 | 47.0 | 0.020 | 67.5 | 0.058 | 88.0 | 0.006 |
| 1.0 | 0.905 | 9.2 | 0.114 | 27.0 | 0.031 | 47.5 | 0.020 | 68.0 | 0.055 | 88.5 | 0.004 |
| 1.2 | 0.822 | 9.4 | 0.092 | 27.5 | 0.029 | 48.0 | 0.025 | 68.5 | 0.050 | 89.0 | 0.002 |
| 1.4 | 0.722 | 9.6 | 0.067 | 28.0 | 0.031 | 48.5 | 0.034 | 69.0 | 0.043 | 89.5 | 0.001 |
| 1.6 | 0.615 | 9.8 | 0.047 | 28.5 | 0.037 | 49.0 | 0.040 | 69.5 | 0.035 | 90.0 | 0.000 |
| 1.8 | 0.511 | 10.0 | 0.048 | 29.0 | 0.043 | 49.5 | 0.040 | 70.0 | 0.028 | | |
| 2.0 | 0.422 | 10.2 | 0.068 | 29.5 | 0.043 | 50.0 | 0.035 | 70.5 | 0.022 | | |
| 2.2 | 0.357 | 10.4 | 0.092 | 30.0 | 0.038 | 50.5 | 0.031 | 71.0 | 0.021 | | |

Remarks: