



Antenna Model:

TLP-24B/VP-R

Proposal Number: C-70510-3
Date: 29-Aug-19
Customer: Nexstar
Location: Waco, TX

Electrical Specifications

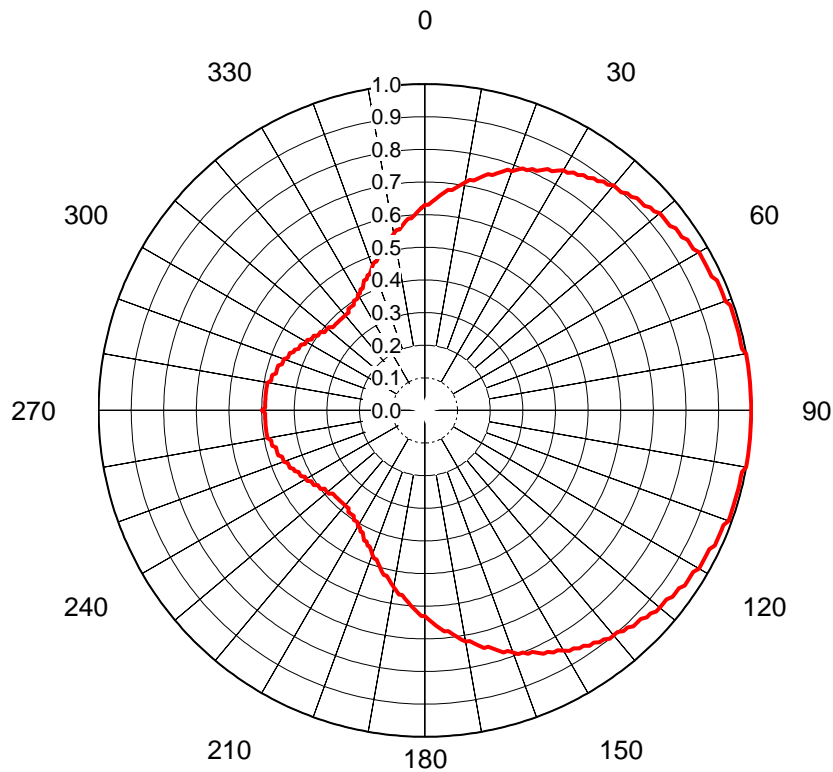
Polarization: Elliptical
Azimuth Pattern: Directional
Antenna Input: 3-1/8" 50 Ohm EIA/DCA
VSWR: Channel 1.08 : 1
Bandwidth: 6 MHz
Rated Input Power: 7.5 kW (8.75 dBk) Maximum Average Power

Mechanical Specifications

Mounting: Side Mounted
Environmental Protection: Full Radome
Height: 46 ft (14m)
Weight: 500 lb (0.2t) Excludes Mounts
Effective Projected Area: 26.3 ft² (2.4m²) TIA-222-G **Basic Wind Speed:** 89 m/h (143.2 km/h)

Channel Specifications

| Call | CH | Freq | Hpol ERP | Vpol ERP | TPO | Peak Main Lobe Hpol Gain | Peak Main Lobe Vpol Gain | Peak at Horizontal Hpol Gain | Peak at Horizontal Vpol Gain |
|------|----|---------|------------------------|------------------------|-----------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|
| KYLE | 29 | 563 MHz | 56.7 kW (17.54 dBk) | 14.2 kW (11.52 dBk) | 2.21 kW (3.44 dBk) | 37.95 (15.79dB) | 9.49 (9.77dB) | 26.01 (14.15dB) | 6.50 (8.13dB) |



AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-70510-3**
 Date **29-Aug-19**
 Call Letters **KYLE**
 Channel **29**
 Frequency **563 MHz**
 Antenna Type **TLP-24B/VP-R**
 Gain **1.99 (2.99dB)**
 Calculated

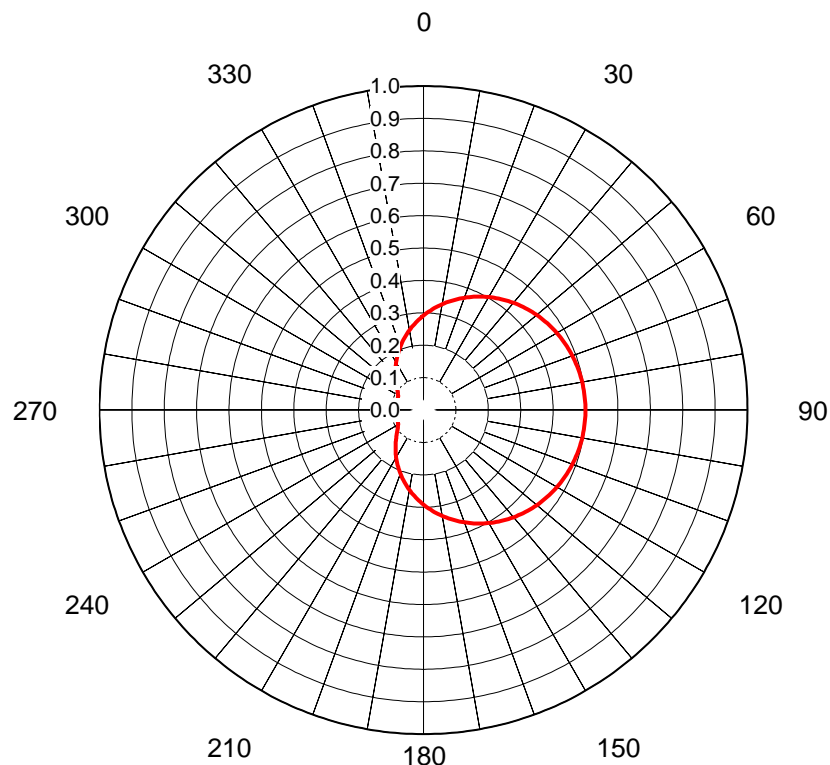
| Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0 | 0.630 | 36 | 0.880 | 72 | 0.990 | 108 | 0.990 | 144 | 0.880 | 180 | 0.630 | 216 | 0.390 | 252 | 0.460 | 288 | 0.460 | 324 | 0.390 |
| 1 | 0.630 | 37 | 0.880 | 73 | 0.990 | 109 | 0.990 | 145 | 0.880 | 181 | 0.630 | 217 | 0.390 | 253 | 0.470 | 289 | 0.460 | 325 | 0.390 |
| 2 | 0.640 | 38 | 0.890 | 74 | 0.990 | 110 | 0.990 | 146 | 0.870 | 182 | 0.620 | 218 | 0.380 | 254 | 0.470 | 290 | 0.460 | 326 | 0.390 |
| 3 | 0.650 | 39 | 0.890 | 75 | 0.990 | 111 | 0.980 | 147 | 0.870 | 183 | 0.610 | 219 | 0.380 | 255 | 0.470 | 291 | 0.450 | 327 | 0.400 |
| 4 | 0.660 | 40 | 0.900 | 76 | 0.990 | 112 | 0.980 | 148 | 0.860 | 184 | 0.600 | 220 | 0.380 | 256 | 0.470 | 292 | 0.450 | 328 | 0.400 |
| 5 | 0.670 | 41 | 0.900 | 77 | 0.990 | 113 | 0.980 | 149 | 0.860 | 185 | 0.590 | 221 | 0.380 | 257 | 0.480 | 293 | 0.450 | 329 | 0.400 |
| 6 | 0.680 | 42 | 0.900 | 78 | 0.990 | 114 | 0.980 | 150 | 0.850 | 186 | 0.580 | 222 | 0.380 | 258 | 0.480 | 294 | 0.440 | 330 | 0.410 |
| 7 | 0.680 | 43 | 0.910 | 79 | 0.990 | 115 | 0.980 | 151 | 0.840 | 187 | 0.570 | 223 | 0.380 | 259 | 0.480 | 295 | 0.440 | 331 | 0.410 |
| 8 | 0.690 | 44 | 0.910 | 80 | 1.000 | 116 | 0.970 | 152 | 0.840 | 188 | 0.570 | 224 | 0.380 | 260 | 0.490 | 296 | 0.430 | 332 | 0.420 |
| 9 | 0.700 | 45 | 0.920 | 81 | 1.000 | 117 | 0.970 | 153 | 0.830 | 189 | 0.560 | 225 | 0.380 | 261 | 0.490 | 297 | 0.430 | 333 | 0.420 |
| 10 | 0.710 | 46 | 0.920 | 82 | 1.000 | 118 | 0.970 | 154 | 0.830 | 190 | 0.550 | 226 | 0.380 | 262 | 0.490 | 298 | 0.430 | 334 | 0.430 |
| 11 | 0.720 | 47 | 0.920 | 83 | 1.000 | 119 | 0.970 | 155 | 0.820 | 191 | 0.540 | 227 | 0.380 | 263 | 0.490 | 299 | 0.420 | 335 | 0.440 |
| 12 | 0.720 | 48 | 0.930 | 84 | 1.000 | 120 | 0.970 | 156 | 0.810 | 192 | 0.530 | 228 | 0.380 | 264 | 0.490 | 300 | 0.420 | 336 | 0.440 |
| 13 | 0.730 | 49 | 0.930 | 85 | 1.000 | 121 | 0.960 | 157 | 0.810 | 193 | 0.520 | 229 | 0.390 | 265 | 0.490 | 301 | 0.420 | 337 | 0.450 |
| 14 | 0.740 | 50 | 0.940 | 86 | 1.000 | 122 | 0.960 | 158 | 0.800 | 194 | 0.520 | 230 | 0.390 | 266 | 0.490 | 302 | 0.410 | 338 | 0.450 |
| 15 | 0.750 | 51 | 0.940 | 87 | 1.000 | 123 | 0.960 | 159 | 0.800 | 195 | 0.510 | 231 | 0.390 | 267 | 0.490 | 303 | 0.410 | 339 | 0.460 |
| 16 | 0.750 | 52 | 0.940 | 88 | 1.000 | 124 | 0.960 | 160 | 0.790 | 196 | 0.500 | 232 | 0.390 | 268 | 0.490 | 304 | 0.410 | 340 | 0.470 |
| 17 | 0.760 | 53 | 0.940 | 89 | 1.000 | 125 | 0.950 | 161 | 0.780 | 197 | 0.490 | 233 | 0.400 | 269 | 0.490 | 305 | 0.400 | 341 | 0.480 |
| 18 | 0.770 | 54 | 0.950 | 90 | 1.000 | 126 | 0.950 | 162 | 0.780 | 198 | 0.480 | 234 | 0.400 | 270 | 0.500 | 306 | 0.400 | 342 | 0.480 |
| 19 | 0.780 | 55 | 0.950 | 91 | 1.000 | 127 | 0.950 | 163 | 0.770 | 199 | 0.480 | 235 | 0.400 | 271 | 0.490 | 307 | 0.400 | 343 | 0.490 |
| 20 | 0.780 | 56 | 0.950 | 92 | 1.000 | 128 | 0.940 | 164 | 0.760 | 200 | 0.470 | 236 | 0.410 | 272 | 0.490 | 308 | 0.390 | 344 | 0.500 |
| 21 | 0.790 | 57 | 0.960 | 93 | 1.000 | 129 | 0.940 | 165 | 0.750 | 201 | 0.460 | 237 | 0.410 | 273 | 0.490 | 309 | 0.390 | 345 | 0.510 |
| 22 | 0.800 | 58 | 0.960 | 94 | 1.000 | 130 | 0.940 | 166 | 0.750 | 202 | 0.450 | 238 | 0.410 | 274 | 0.490 | 310 | 0.390 | 346 | 0.520 |
| 23 | 0.800 | 59 | 0.960 | 95 | 1.000 | 131 | 0.940 | 167 | 0.740 | 203 | 0.450 | 239 | 0.420 | 275 | 0.490 | 311 | 0.390 | 347 | 0.520 |
| 24 | 0.810 | 60 | 0.970 | 96 | 1.000 | 132 | 0.930 | 168 | 0.730 | 204 | 0.440 | 240 | 0.420 | 276 | 0.490 | 312 | 0.380 | 348 | 0.530 |
| 25 | 0.810 | 61 | 0.970 | 97 | 1.000 | 133 | 0.930 | 169 | 0.720 | 205 | 0.440 | 241 | 0.420 | 277 | 0.490 | 313 | 0.380 | 349 | 0.540 |
| 26 | 0.820 | 62 | 0.970 | 98 | 1.000 | 134 | 0.920 | 170 | 0.720 | 206 | 0.430 | 242 | 0.430 | 278 | 0.490 | 314 | 0.380 | 350 | 0.550 |
| 27 | 0.830 | 63 | 0.970 | 99 | 1.000 | 135 | 0.920 | 171 | 0.710 | 207 | 0.420 | 243 | 0.430 | 279 | 0.490 | 315 | 0.380 | 351 | 0.560 |
| 28 | 0.830 | 64 | 0.970 | 100 | 1.000 | 136 | 0.920 | 172 | 0.700 | 208 | 0.420 | 244 | 0.430 | 280 | 0.490 | 316 | 0.380 | 352 | 0.560 |
| 29 | 0.840 | 65 | 0.970 | 101 | 0.990 | 137 | 0.910 | 173 | 0.690 | 209 | 0.410 | 245 | 0.440 | 281 | 0.480 | 317 | 0.380 | 353 | 0.570 |
| 30 | 0.850 | 66 | 0.980 | 102 | 0.990 | 138 | 0.910 | 174 | 0.680 | 210 | 0.410 | 246 | 0.440 | 282 | 0.480 | 318 | 0.380 | 354 | 0.580 |
| 31 | 0.850 | 67 | 0.980 | 103 | 0.990 | 139 | 0.900 | 175 | 0.680 | 211 | 0.400 | 247 | 0.450 | 283 | 0.480 | 319 | 0.380 | 355 | 0.590 |
| 32 | 0.860 | 68 | 0.980 | 104 | 0.990 | 140 | 0.900 | 176 | 0.670 | 212 | 0.400 | 248 | 0.450 | 284 | 0.470 | 320 | 0.380 | 356 | 0.590 |
| 33 | 0.860 | 69 | 0.980 | 105 | 0.990 | 141 | 0.900 | 177 | 0.660 | 213 | 0.400 | 249 | 0.450 | 285 | 0.470 | 321 | 0.380 | 357 | 0.600 |
| 34 | 0.870 | 70 | 0.980 | 106 | 0.990 | 142 | 0.890 | 178 | 0.650 | 214 | 0.390 | 250 | 0.460 | 286 | 0.470 | 322 | 0.380 | 358 | 0.610 |
| 35 | 0.870 | 71 | 0.990 | 107 | 0.990 | 143 | 0.890 | 179 | 0.640 | 215 | 0.390 | 251 | 0.460 | 287 | 0.470 | 323 | 0.390 | 359 | 0.620 |

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AZIMUTH PATTERN Vertical Polarization

In Free Space

Proposal No. **C-70510-3**
Date **29-Aug-19**
Call Letters **KYLE**
Channel **29**
Frequency **563 MHz**
Antenna Type **TLP-24B/VP-R**
Gain **2.35 (3.71dB)**
Calculated



| Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0 | 0.292 | 36 | 0.421 | 72 | 0.491 | 108 | 0.491 | 144 | 0.421 | 180 | 0.292 | 216 | 0.147 | 252 | 0.085 | 288 | 0.085 |
| 1 | 0.296 | 37 | 0.424 | 73 | 0.492 | 109 | 0.490 | 145 | 0.418 | 181 | 0.287 | 217 | 0.143 | 253 | 0.085 | 289 | 0.085 |
| 2 | 0.300 | 38 | 0.426 | 74 | 0.493 | 110 | 0.489 | 146 | 0.415 | 182 | 0.283 | 218 | 0.140 | 254 | 0.085 | 290 | 0.085 |
| 3 | 0.304 | 39 | 0.429 | 75 | 0.494 | 111 | 0.488 | 147 | 0.412 | 183 | 0.279 | 219 | 0.137 | 255 | 0.086 | 291 | 0.086 |
| 4 | 0.308 | 40 | 0.432 | 76 | 0.495 | 112 | 0.487 | 148 | 0.409 | 184 | 0.275 | 220 | 0.133 | 256 | 0.086 | 292 | 0.086 |
| 5 | 0.312 | 41 | 0.435 | 77 | 0.495 | 113 | 0.486 | 149 | 0.406 | 185 | 0.271 | 221 | 0.130 | 257 | 0.086 | 293 | 0.086 |
| 6 | 0.316 | 42 | 0.437 | 78 | 0.496 | 114 | 0.484 | 150 | 0.403 | 186 | 0.267 | 222 | 0.127 | 258 | 0.086 | 294 | 0.086 |
| 7 | 0.320 | 43 | 0.440 | 79 | 0.497 | 115 | 0.483 | 151 | 0.399 | 187 | 0.263 | 223 | 0.124 | 259 | 0.086 | 295 | 0.087 |
| 8 | 0.324 | 44 | 0.442 | 80 | 0.497 | 116 | 0.482 | 152 | 0.396 | 188 | 0.258 | 224 | 0.121 | 260 | 0.086 | 296 | 0.087 |
| 9 | 0.328 | 45 | 0.445 | 81 | 0.498 | 117 | 0.480 | 153 | 0.393 | 189 | 0.254 | 225 | 0.118 | 261 | 0.086 | 297 | 0.088 |
| 10 | 0.332 | 46 | 0.447 | 82 | 0.498 | 118 | 0.479 | 154 | 0.390 | 190 | 0.250 | 226 | 0.116 | 262 | 0.086 | 298 | 0.089 |
| 11 | 0.335 | 47 | 0.450 | 83 | 0.499 | 119 | 0.477 | 155 | 0.386 | 191 | 0.246 | 227 | 0.113 | 263 | 0.087 | 299 | 0.089 |
| 12 | 0.339 | 48 | 0.452 | 84 | 0.499 | 120 | 0.476 | 156 | 0.383 | 192 | 0.242 | 228 | 0.111 | 264 | 0.087 | 300 | 0.090 |
| 13 | 0.343 | 49 | 0.454 | 85 | 0.499 | 121 | 0.474 | 157 | 0.379 | 193 | 0.238 | 229 | 0.108 | 265 | 0.087 | 301 | 0.091 |
| 14 | 0.347 | 50 | 0.456 | 86 | 0.500 | 122 | 0.472 | 158 | 0.376 | 194 | 0.233 | 230 | 0.106 | 266 | 0.087 | 302 | 0.093 |
| 15 | 0.351 | 51 | 0.459 | 87 | 0.500 | 123 | 0.470 | 159 | 0.372 | 195 | 0.229 | 231 | 0.104 | 267 | 0.087 | 303 | 0.094 |
| 16 | 0.354 | 52 | 0.461 | 88 | 0.500 | 124 | 0.469 | 160 | 0.369 | 196 | 0.225 | 232 | 0.102 | 268 | 0.087 | 304 | 0.095 |
| 17 | 0.358 | 53 | 0.463 | 89 | 0.500 | 125 | 0.467 | 161 | 0.365 | 197 | 0.221 | 233 | 0.100 | 269 | 0.087 | 305 | 0.097 |
| 18 | 0.362 | 54 | 0.465 | 90 | 0.500 | 126 | 0.465 | 162 | 0.362 | 198 | 0.217 | 234 | 0.098 | 270 | 0.087 | 306 | 0.098 |
| 19 | 0.365 | 55 | 0.467 | 91 | 0.500 | 127 | 0.463 | 163 | 0.358 | 199 | 0.213 | 235 | 0.097 | 271 | 0.087 | 307 | 0.100 |
| 20 | 0.369 | 56 | 0.469 | 92 | 0.500 | 128 | 0.461 | 164 | 0.354 | 200 | 0.208 | 236 | 0.095 | 272 | 0.087 | 308 | 0.102 |
| 21 | 0.372 | 57 | 0.470 | 93 | 0.500 | 129 | 0.459 | 165 | 0.351 | 201 | 0.204 | 237 | 0.094 | 273 | 0.087 | 309 | 0.104 |
| 22 | 0.376 | 58 | 0.472 | 94 | 0.500 | 130 | 0.456 | 166 | 0.347 | 202 | 0.200 | 238 | 0.093 | 274 | 0.087 | 310 | 0.106 |
| 23 | 0.379 | 59 | 0.474 | 95 | 0.499 | 131 | 0.454 | 167 | 0.343 | 203 | 0.196 | 239 | 0.091 | 275 | 0.087 | 311 | 0.108 |
| 24 | 0.383 | 60 | 0.476 | 96 | 0.499 | 132 | 0.452 | 168 | 0.339 | 204 | 0.192 | 240 | 0.090 | 276 | 0.087 | 312 | 0.111 |
| 25 | 0.386 | 61 | 0.477 | 97 | 0.499 | 133 | 0.450 | 169 | 0.335 | 205 | 0.188 | 241 | 0.089 | 277 | 0.087 | 313 | 0.113 |
| 26 | 0.390 | 62 | 0.479 | 98 | 0.498 | 134 | 0.447 | 170 | 0.332 | 206 | 0.184 | 242 | 0.089 | 278 | 0.086 | 314 | 0.116 |
| 27 | 0.393 | 63 | 0.480 | 99 | 0.498 | 135 | 0.445 | 171 | 0.328 | 207 | 0.180 | 243 | 0.088 | 279 | 0.086 | 315 | 0.118 |
| 28 | 0.396 | 64 | 0.482 | 100 | 0.497 | 136 | 0.442 | 172 | 0.324 | 208 | 0.176 | 244 | 0.087 | 280 | 0.086 | 316 | 0.121 |
| 29 | 0.399 | 65 | 0.483 | 101 | 0.497 | 137 | 0.440 | 173 | 0.320 | 209 | 0.172 | 245 | 0.087 | 281 | 0.086 | 317 | 0.124 |
| 30 | 0.403 | 66 | 0.484 | 102 | 0.496 | 138 | 0.437 | 174 | 0.316 | 210 | 0.169 | 246 | 0.086 | 282 | 0.086 | 318 | 0.127 |
| 31 | 0.406 | 67 | 0.486 | 103 | 0.495 | 139 | 0.435 | 175 | 0.312 | 211 | 0.165 | 247 | 0.086 | 283 | 0.086 | 319 | 0.130 |
| 32 | 0.409 | 68 | 0.487 | 104 | 0.495 | 140 | 0.432 | 176 | 0.308 | 212 | 0.161 | 248 | 0.086 | 284 | 0.086 | 320 | 0.133 |
| 33 | 0.412 | 69 | 0.488 | 105 | 0.494 | 141 | 0.429 | 177 | 0.304 | 213 | 0.157 | 249 | 0.086 | 285 | 0.086 | 321 | 0.137 |
| 34 | 0.415 | 70 | 0.489 | 106 | 0.493 | 142 | 0.426 | 178 | 0.300 | 214 | 0.154 | 250 | 0.085 | 286 | 0.085 | 322 | 0.140 |
| 35 | 0.418 | 71 | 0.490 | 107 | 0.492 | 143 | 0.424 | 179 | 0.296 | 215 | 0.150 | 251 | 0.085 | 287 | 0.085 | 323 | 0.143 |

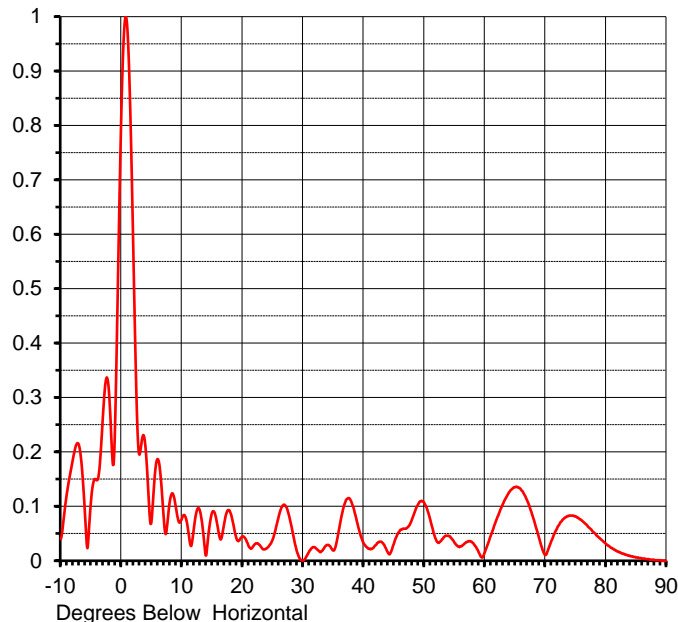
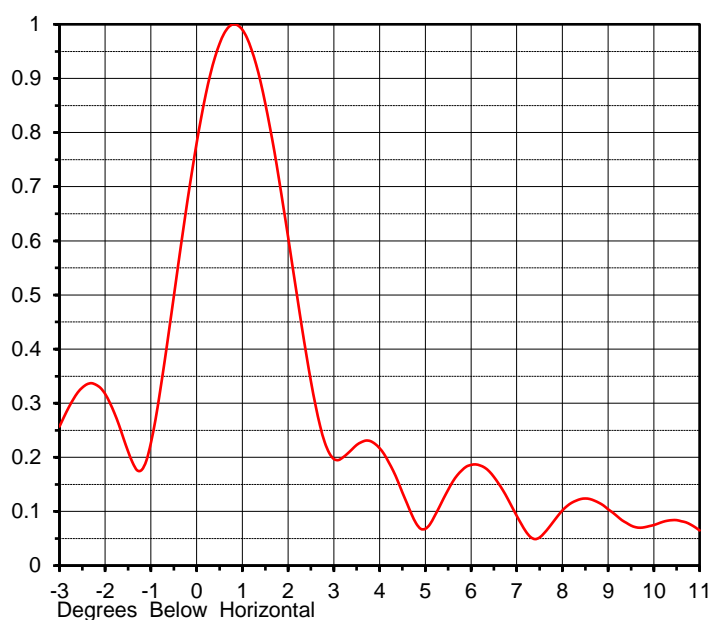
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ELEVATION PATTERN

Proposal No. **C-70510-3**
 Date **29-Aug-19**
 Call Letters **KYLE**
 Channel **29**
 Frequency **563 MHz**
 Antenna Type **TLP-24B/VP-R**

RMS Directivity at Main Lobe **23.1 (13.64 dB)**
 RMS Directivity at Horizontal **15.8 (11.99 dB)**
Calculated

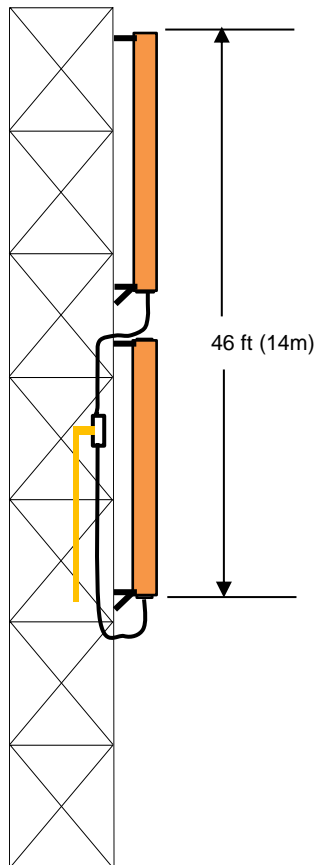
Beam Tilt **0.75 deg**
 Pattern Number **24L231075**



| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.040 | 10.0 | 0.078 | 30.0 | 0.000 | 50.0 | 0.106 | 70.0 | 0.011 |
| -9.0 | 0.124 | 11.0 | 0.057 | 31.0 | 0.017 | 51.0 | 0.075 | 71.0 | 0.037 |
| -8.0 | 0.187 | 12.0 | 0.063 | 32.0 | 0.024 | 52.0 | 0.037 | 72.0 | 0.062 |
| -7.0 | 0.212 | 13.0 | 0.090 | 33.0 | 0.017 | 53.0 | 0.040 | 73.0 | 0.077 |
| -6.0 | 0.083 | 14.0 | 0.010 | 34.0 | 0.029 | 54.0 | 0.046 | 74.0 | 0.083 |
| -5.0 | 0.112 | 15.0 | 0.089 | 35.0 | 0.019 | 55.0 | 0.033 | 75.0 | 0.081 |
| -4.0 | 0.148 | 16.0 | 0.055 | 36.0 | 0.062 | 56.0 | 0.026 | 76.0 | 0.074 |
| -3.0 | 0.275 | 17.0 | 0.070 | 37.0 | 0.109 | 57.0 | 0.034 | 77.0 | 0.063 |
| -2.0 | 0.301 | 18.0 | 0.088 | 38.0 | 0.107 | 58.0 | 0.033 | 78.0 | 0.052 |
| -1.0 | 0.270 | 19.0 | 0.041 | 39.0 | 0.067 | 59.0 | 0.015 | 79.0 | 0.041 |
| 0.0 | 0.828 | 20.0 | 0.045 | 40.0 | 0.032 | 60.0 | 0.016 | 80.0 | 0.031 |
| 1.0 | 0.975 | 21.0 | 0.027 | 41.0 | 0.022 | 61.0 | 0.047 | 81.0 | 0.023 |
| 2.0 | 0.551 | 22.0 | 0.030 | 42.0 | 0.029 | 62.0 | 0.078 | 82.0 | 0.017 |
| 3.0 | 0.195 | 23.0 | 0.026 | 43.0 | 0.034 | 63.0 | 0.105 | 83.0 | 0.012 |
| 4.0 | 0.206 | 24.0 | 0.023 | 44.0 | 0.015 | 64.0 | 0.126 | 84.0 | 0.009 |
| 5.0 | 0.076 | 25.0 | 0.040 | 45.0 | 0.032 | 65.0 | 0.135 | 85.0 | 0.006 |
| 6.0 | 0.187 | 26.0 | 0.083 | 46.0 | 0.056 | 66.0 | 0.130 | 86.0 | 0.004 |
| 7.0 | 0.077 | 27.0 | 0.102 | 47.0 | 0.059 | 67.0 | 0.110 | 87.0 | 0.003 |
| 8.0 | 0.110 | 28.0 | 0.067 | 48.0 | 0.077 | 68.0 | 0.078 | 88.0 | 0.001 |
| 9.0 | 0.098 | 29.0 | 0.016 | 49.0 | 0.104 | 69.0 | 0.040 | 89.0 | 0.001 |
| | | | | | | | | 90.0 | 0.000 |

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MECHANICAL SPECIFICATIONS



Proposal No. **C-70510-3**
 Date **29-Aug-19**
 Call Letters **KYLE**
 Channel **29**
 Frequency **563 MHz**
 Antenna Type **TLP-24B/VP-R**

Preliminary Specifications

Side Mounted

With ice TIA-222-G

Height AGL(z) 630 ft (192 m)
 Basic Wind Speed 89 m/h (143.2 km/h)

Structure Class II
 Exposure Category C
 Topography Category 1

Design Ice 0.75 in $t_{iz} = 2.01$ in
 Wind Speed w/Ice 30 m/h (48.3 km/h)

Mechanical Specifications

| | | without ice | with ice | |
|-------------------------------|--------------------|---|---|-----------------|
| Height | H2 | 46 ft (14m) | | |
| Height of Center of Radiation | H3 | 23 ft (7m) | | |
| Effective Projected Area | (EPA) _A | 26.3 ft ² (2.4m ²) | 81.3 ft ² (7.6m ²) | Mounts Excluded |
| Weight | W | 500 lb (0.2t) | 2100 lb (1t) | Mounts Excluded |

Antenna designed in accordance with AISC specifications for design of structural steel as prescribed by TIA-222-G

Prepared by: KLP
 Rev. No.3 by: JBC

Date: 29-Aug-19
 Date: 29-Aug-19

ME: EE:

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Summary

| | |
|--------------|---------------------|
| Proposal No. | C-70510-3 |
| Date | 29-Aug-19 |
| Call Letters | KYLE |
| Channel | 29 |
| Frequency | 563 MHz |
| Antenna Type | TLP-24B/VP-R |

Antenna

| | Hpol | Vpol |
|-------------|------------------------------|------------------------------|
| ERP: | 56.7 kW (17.54 dBk) | 14.2 kW (11.52 dBk) |
| Peak Gain* | 37.95 (15.79 dB) | 9.49 (9.77 dB) |

| | |
|----------------------------|-----------------------------|
| Antenna Input Power | 1.49 kW (1.73 dBk) |
|----------------------------|-----------------------------|

Transmission Line

| | | | |
|------------|---------------|----------------|--------------------|
| Type: | Rigid | Attenuation: | (1.71 dB) |
| Size: | 3-1/8" | Efficiency: | 67.4% |
| Impedance: | 50 Ohm | | |
| Length: | 690 ft | 210.3 m | |

Transmitter Output

| |
|-----------------------------|
| 2.21 kW (3.44 dBk) |
|-----------------------------|

Transmitter filter losses not included

* Directivity and Gain are with respect to half wave dipole. The gain includes feed system losses

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