

### **Request for Special Temporary Authority**

WLOV License LLC (“WLOV”), licensee of WLOV-TV, West Point, Mississippi (Facility ID No. 37732) (the “Station”), hereby requests Special Temporary Authority (“STA”) for the Station to operate from a temporary antenna. WLOV’s agreement for the Station’s licensed transmission site has terminated, but WLOV has identified an alternative facility, as detailed in the STA request, from which it can operate while it finalizes a longer-term facility for the Station and files for and obtains a construction permit for such facility. The facility proposed in this STA will continue to provide service to West Point, the Station’s community of license. Information regarding the proposed antenna is attached hereto.



# SYSTEMS WITH RELIABILITY, LP

## Broadcast Antennas & Transmission Systems



# SYSTEM DATA SHEET

**CALL SIGN / CUSTOMER** WLOV-TV (Aux) / Morris Network, Inc  
**LOCATION** West Point, MS  
**CONTACT** Ray Luke  
**ANTENNA MODEL** SWDDP 4-4-4-0/16  
**CHANNEL / CENTER FREQUENCY** 16 / 485 MHz

## ELECTRICAL SPECIFICATION

<b>Polarization Type</b>	Horizontal		
<b>Polarization Ratio</b>			
	<b>H-Pol. (PRH)</b>	100.00	%
<b>Elevation Directivity (ED)</b>	9.942		
<b>Azimuth Directivity (AD) H-Pol.</b>	1.897		
<b>Antenna Gain (G)</b>			
	<b>H-Pol. (GH)</b>	18.855	
<b>dB Gain (AG)</b>			
	<b>H-Pol. (AGH)</b>	12.754	<b>dBd</b>
<b>ERP</b>			
	<b>H-Pol. (ERPH)</b>	113.400	<b>kW</b>
<b>Beam Tilt</b>	0.00	<b>Degrees</b>	
<b>Null Fill</b>	0.00	%	
<b>Line Type</b>	3" Air	<b>HCA300-50J</b>	
<b>Attenuation per 100 ft.</b>	0.300	<b>dB/100ft</b>	
<b>Line Length (LL) (Given)</b>	1000.00	<b>ft.</b>	
<b>Total Line Attenuation</b>	3.000	<b>dB</b>	
<b>Line Efficiency (LE)</b>	50.12	%	
<b>Line Loss (LPL)</b>	5.986	<b>kW</b>	
<b>Antenna Input Power (AIP)</b>	6.014	<b>kW</b>	
<b>Req'd. Transmitter Output Power</b>	12.000	<b>kW</b>	

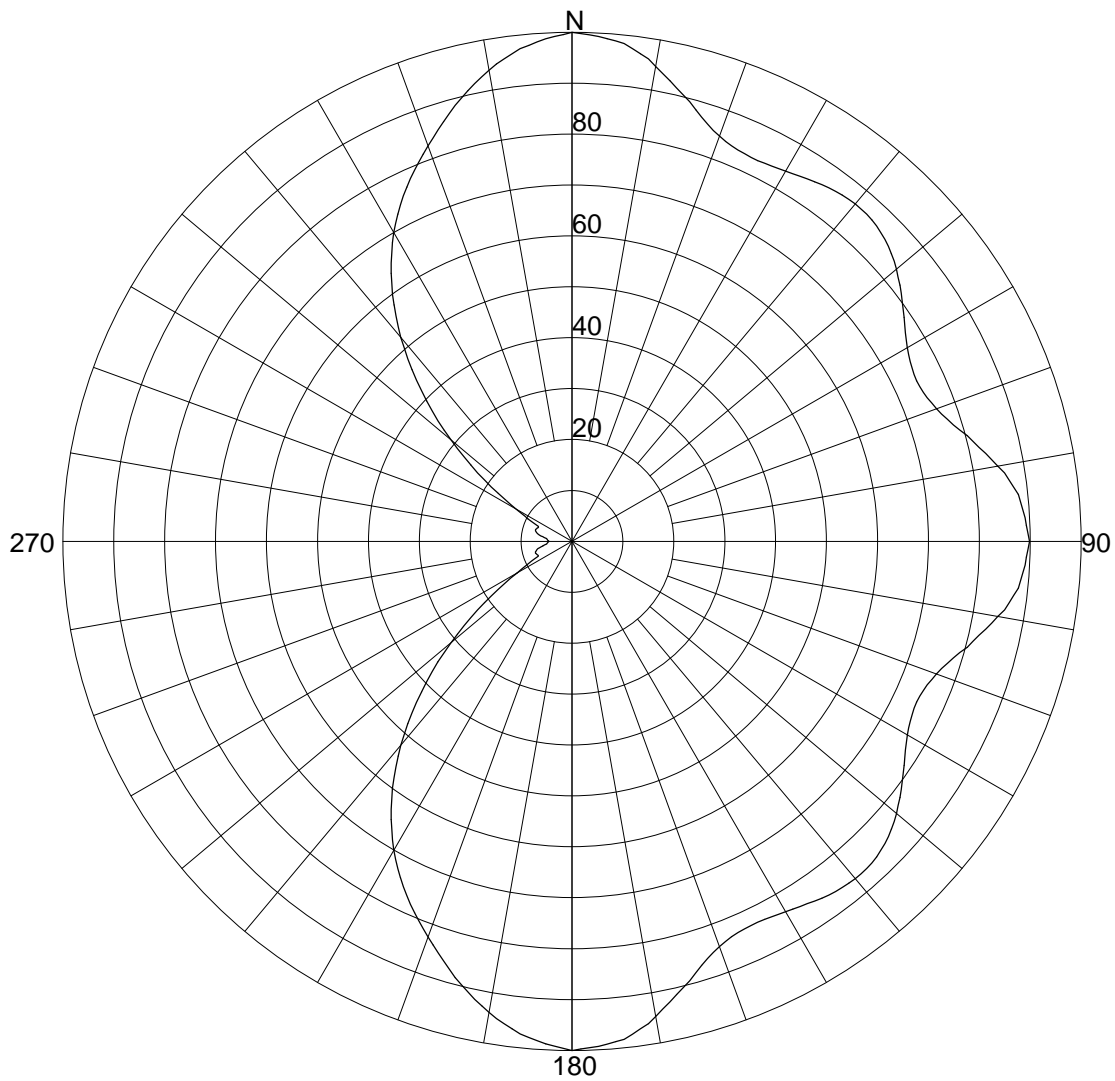
## MECHANICAL SPECIFICATION

<b>No. Of Bays</b>	12 Panels		
<b>Center of Radiation AGL</b>	376.00	<b>ft.</b>	114.60 <b>m</b>
<b>Antenna Aperture</b>	11.32	<b>ft.</b>	3.45 <b>m</b>
<b>Antenna Total Length</b>	15.09	<b>ft.</b>	4.60 <b>m</b>

Specifications will be certified upon final construction and testing.  
 The given values can be used for planning the system.

Prepared by:

Umesh  
 SWR,LP Engineering



## Azimuth Pattern

### Systems With Reliability (SWR, L.P.)

Scale: Linear

Unit: Relative Field

CLIENT: *Ray Luke*

Date: 10/27/2023

ANTENNA TYPE: SWDDP 4-4-4-0/16

FREQUENCY: 485

PATTERN POL.: Horizontal

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 1.8965 / 2.7796dB

PATTERN RMS: 0.726

## Relative Field Tabulation(Azimuth)

Azimuth Heading	Normalized Field(dB)	Azimuth Heading	Normalized Field(dB)
0	1.0000 ( 0 )	180	1.0000 ( 0 )
5	.9865 (-0.12 )	185	.9780 (-0.19 )
10	.9474 (-0.47 )	190	.9391 (-0.55 )
15	.8936 (-0.98 )	195	.8869 (-1.04 )
20	.8469 (-1.44 )	200	.8265 (-1.66 )
25	.8322 (-1.6 )	205	.7678 (-2.3 )
30	.8398 (-1.52 )	210	.7000 (-3.1 )
35	.8555 (-1.36 )	215	.6175 (-4.19 )
40	.8653 (-1.26 )	220	.5226 (-5.64 )
45	.8577 (-1.33 )	225	.4182 (-7.57 )
50	.8319 (-1.6 )	230	.3112 (-10.14 )
55	.7943 (-2 )	235	.2097 (-13.57 )
60	.7606 (-2.38 )	240	.1248 (-18.07 )
65	.7470 (-2.53 )	245	.0797 (-21.97 )
70	.7619 (-2.36 )	250	.0739 (-22.63 )
75	.8034 (-1.9 )	255	.0732 (-22.71 )
80	.8495 (-1.42 )	260	.0621 (-24.14 )
85	.8847 (-1.06 )	265	.0494 (-26.12 )
90	.8987 (-0.93 )	270	.0449 (-26.95 )
95	.8847 (-1.06 )	275	.0494 (-26.12 )
100	.8495 (-1.42 )	280	.0621 (-24.14 )
105	.8034 (-1.9 )	285	.0732 (-22.71 )
110	.7619 (-2.36 )	290	.0739 (-22.63 )
115	.7470 (-2.53 )	295	.0797 (-21.97 )
120	.7606 (-2.38 )	300	.1248 (-18.07 )
125	.7943 (-2 )	305	.2097 (-13.57 )
130	.8319 (-1.6 )	310	.3112 (-10.14 )
135	.8577 (-1.33 )	315	.4182 (-7.57 )
140	.8653 (-1.26 )	320	.5226 (-5.64 )
145	.8555 (-1.36 )	325	.6175 (-4.19 )
150	.8398 (-1.52 )	330	.7000 (-3.1 )
155	.8322 (-1.6 )	335	.7678 (-2.3 )
160	.8469 (-1.44 )	340	.8265 (-1.66 )
165	.8936 (-0.98 )	345	.8869 (-1.04 )
170	.9474 (-0.47 )	350	.9391 (-0.55 )
175	.9865 (-0.12 )	355	.9780 (-0.19 )

## Systems With Reliability (SWR, L.P.)

CLIENT: *Ray Luke*

Date: 10/27/2023

ANTENNA TYPE: SWDDP 4-4-4-0/16

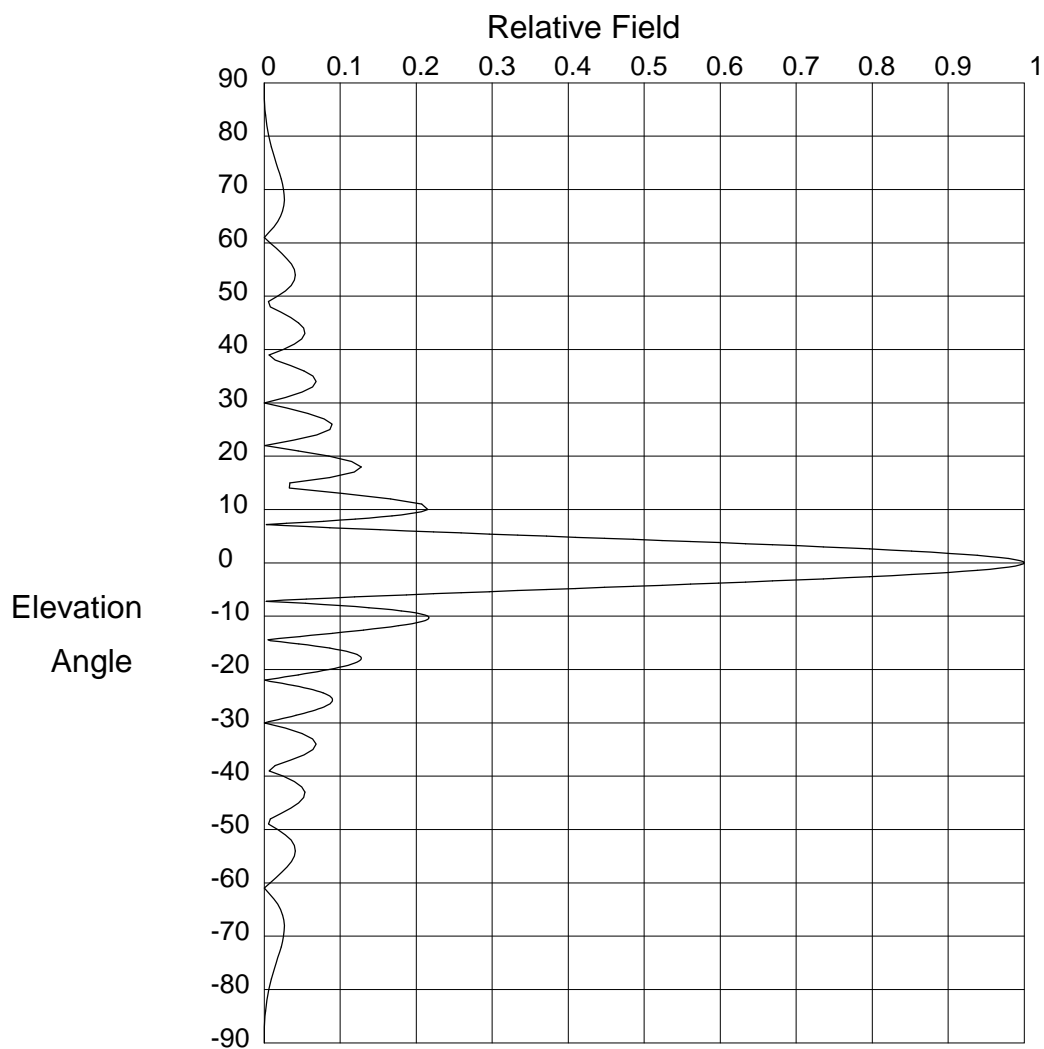
FREQUENCY: 485

PATTERN POL.: Horizontal

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 1.8965 / 2.7796dB

PATTERN RMS: 0.726



## Elevation Pattern

### Systems With Reliability (SWR, L.P.)

Scale: Linear

Units: Field, Relative

CLIENT: *Ray Luke*

Date: 10/27/2023

ANTENNA TYPE: SWDDP4-4-4-0/16

FREQUENCY: 485

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 9.942/9.975 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 9.942/9.975 dBd

Null Fill(s)(%) : 0, 0, 0

# Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
90.0	.00 (-50)	52.0	.035 (-29.04)	14.0	.033 (-29.612 )
89.0	.00 (-91.156)	51.0	.028 (-31.07)	13.0	.104 (-19.669 )
88.0	.00 (-78.011)	50.0	.018 (-34.976)	12.0	.166 (-15.577 )
87.0	.00 (-69.99)	49.0	.005 (-45.194)	11.0	.207 (-13.661 )
86.0	.001 (-64.118)	48.0	.008 (-41.744)	10.0	.215 (-13.347 )
85.0	.001 (-59.453)	47.0	.022 (-33.117)	9.8	.212 (-13.483 )
84.0	.002 (-55.573)	46.0	.035 (-29.141)	9.6	.207 (-13.694 )
83.0	.002 (-52.249)	45.0	.045 (-26.887)	9.4	.20 (-13.989 )
82.0	.003 (-49.346)	44.0	.052 (-25.713)	9.2	.191 (-14.376 )
81.0	.005 (-46.776)	43.0	.053 (-25.438)	9.0	.18 (-14.871 )
80.0	.006 (-44.48)	42.0	.05 (-26.096)	8.8	.168 (-15.491 )
79.0	.008 (-42.419)	41.0	.04 (-27.967)	8.6	.154 (-16.265 )
78.0	.009 (-40.562)	40.0	.025 (-31.974)	8.4	.138 (-17.232 )
77.0	.011 (-38.892)	39.0	.006 (-43.765)	8.2	.119 (-18.453 )
76.0	.014 (-37.393)	38.0	.014 (-36.901)	8.0	.10 (-20.033 )
75.0	.016 (-36.058)	37.0	.035 (-29.185)	7.8	.078 (-22.164 )
74.0	.018 (-34.884)	36.0	.052 (-25.643)	7.6	.055 (-25.268 )
73.0	.02 (-33.869)	35.0	.064 (-23.852)	7.4	.029 (-30.632 )
72.0	.022 (-33.018)	34.0	.068 (-23.29)	7.2	.003 (-51.512 )
71.0	.024 (-32.34)	33.0	.064 (-23.909)	7.0	.026 (-31.819 )
70.0	.026 (-31.847)	32.0	.05 (-26.05)	6.8	.055 (-25.127 )
69.0	.026 (-31.56)	31.0	.028 (-31.127)	6.6	.087 (-21.252 )
68.0	.027 (-31.508)	30.0	.00 (-50)	6.4	.119 (-18.489 )
67.0	.026 (-31.736)	29.0	.03 (-30.476)	6.2	.153 (-16.329 )
66.0	.024 (-32.313)	28.0	.058 (-24.773)	6.0	.187 (-14.552 )
65.0	.021 (-33.354)	27.0	.079 (-22.062)	5.8	.223 (-13.042 )
64.0	.018 (-35.078)	26.0	.089 (-20.976)	5.6	.259 (-11.729 )
63.0	.013 (-37.972)	25.0	.086 (-21.264)	5.4	.296 (-10.57 )
62.0	.007 (-43.621)	24.0	.069 (-23.201)	5.2	.334 (-9.534 )
61.0	.00 (-69.717)	23.0	.039 (-28.222)	5.0	.372 (-8.6 )
60.0	.008 (-42.09)	22.0	.001 (-59.656)	4.8	.41 (-7.753 )
59.0	.016 (-36.107)	21.0	.045 (-26.994)	4.6	.448 (-6.98 )
58.0	.023 (-32.668)	20.0	.085 (-21.397)	4.4	.486 (-6.272 )
57.0	.03 (-30.413)	19.0	.115 (-18.79)	4.2	.524 (-5.622 )
56.0	.036 (-28.928)	18.0	.128 (-17.885)	4.0	.561 (-5.023 )
55.0	.04 (-28.054)	17.0	.118 (-18.527)	3.8	.598 (-4.472 )
54.0	.041 (-27.746)	16.0	.086 (-21.274)	3.6	.634 (-3.964 )
53.0	.04 (-28.033)	15.0	.034 (-29.453)	3.4	.669 (-3.496 )

## Systems With Reliability (SWR, L.P.)

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CLIENT: *Ray Luke*

Date: 10/27/2023

ANTENNA TYPE: SWDDP4-4-4-0/16

FREQUENCY: 485

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 9.942/9.975 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 9.942/9.975 dBd

Null Fill(s)(%) : 0, 0, 0

# Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
3.2	.703 (-3.065)	-4.4	.486 (-6.272)	-12.0	.166 (-15.577 )
3.0	.736 (-2.668)	-4.6	.448 (-6.98)	-12.2	.155 (-16.182 )
2.8	.767 (-2.304)	-4.8	.41 (-7.753)	-12.4	.143 (-16.879 )
2.6	.797 (-1.971)	-5.0	.372 (-8.6)	-12.6	.131 (-17.679 )
2.4	.825 (-1.668)	-5.2	.334 (-9.534)	-12.8	.117 (-18.601 )
2.2	.852 (-1.392)	-5.4	.296 (-10.57)	-13.0	.104 (-19.669 )
2.0	.877 (-1.144)	-5.6	.259 (-11.729)	-13.2	.09 (-20.918 )
1.8	.899 (-0.922)	-5.8	.223 (-13.042)	-13.4	.076 (-22.404 )
1.6	.92 (-0.725)	-6.0	.187 (-14.552)	-13.6	.062 (-24.214 )
1.4	.938 (-0.553)	-6.2	.153 (-16.329)	-13.8	.047 (-26.507 )
1.2	.954 (-0.405)	-6.4	.119 (-18.489)	-14.0	.033 (-29.612 )
1.0	.968 (-0.28)	-6.6	.087 (-21.252)	-14.2	.019 (-34.412 )
.8	.98 (-0.179)	-6.8	.055 (-25.127)	-14.4	.005 (-45.596 )
.6	.988 (-0.101)	-7.0	.026 (-31.819)	-14.6	.008 (-41.746 )
.4	.995 (-0.045)	-7.2	.003 (-51.512)	-14.8	.021 (-33.481 )
.2	.999 (-0.011)	-7.4	.029 (-30.632)	-15.0	.034 (-29.453 )
.0	1.00 (0)	-7.6	.055 (-25.268)	-15.2	.046 (-26.82 )
-.2	.999 (-0.011)	-7.8	.078 (-22.164)	-15.4	.057 (-24.899 )
-.4	.995 (-0.045)	-8.0	.10 (-20.033)	-15.6	.067 (-23.417 )
-.6	.988 (-0.101)	-8.2	.119 (-18.453)	-15.8	.077 (-22.235 )
-.8	.98 (-0.179)	-8.4	.138 (-17.232)	-16.0	.086 (-21.274 )
-1.0	.968 (-0.28)	-8.6	.154 (-16.265)	-16.2	.095 (-20.485 )
-1.2	.954 (-0.405)	-8.8	.168 (-15.491)	-16.4	.102 (-19.836 )
-1.4	.938 (-0.553)	-9.0	.18 (-14.871)	-16.6	.108 (-19.303 )
-1.6	.92 (-0.725)	-9.2	.191 (-14.376)	-16.8	.114 (-18.871 )
-1.8	.899 (-0.922)	-9.4	.20 (-13.989)	-17.0	.118 (-18.527 )
-2.0	.877 (-1.144)	-9.6	.207 (-13.694)	-17.2	.122 (-18.262 )
-2.2	.852 (-1.392)	-9.8	.212 (-13.483)	-17.4	.125 (-18.07 )
-2.4	.825 (-1.668)	-10.0	.215 (-13.347)	-17.6	.127 (-17.945 )
-2.6	.797 (-1.971)	-10.2	.217 (-13.282)	-17.8	.128 (-17.884 )
-2.8	.767 (-2.304)	-10.4	.217 (-13.282)	-18.0	.128 (-17.885 )
-3.0	.736 (-2.668)	-10.6	.215 (-13.347)	-18.2	.127 (-17.946 )
-3.2	.703 (-3.065)	-10.8	.212 (-13.473)	-18.4	.125 (-18.066 )
-3.4	.669 (-3.496)	-11.0	.207 (-13.661)	-18.6	.122 (-18.246 )
-3.6	.634 (-3.964)	-11.2	.202 (-13.911)	-18.8	.119 (-18.487 )
-3.8	.598 (-4.472)	-11.4	.194 (-14.225)	-19.0	.115 (-18.79 )
-4.0	.561 (-5.023)	-11.6	.186 (-14.604)	-19.2	.11 (-19.158 )
-4.2	.524 (-5.622)	-11.8	.177 (-15.053)	-19.4	.105 (-19.596 )

## Systems With Reliability (SWR, L.P.)

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CLIENT: *Ray Luke*

Date: 10/27/2023

ANTENNA TYPE: SWDDP4-4-4-0/16

FREQUENCY: 485

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 9.942/9.975 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 9.942/9.975 dBd

Null Fill(s)(%) : 0, 0, 0

# Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
-19.6	.099 (-20.11)	-27.2	.075 (-22.455)	-54.0	.041 (-27.746 )
-19.8	.092 (-20.707)	-27.4	.071 (-22.916)	-55.0	.04 (-28.054 )
-20.0	.085 (-21.397)	-27.6	.067 (-23.45)	-56.0	.036 (-28.928 )
-20.2	.078 (-22.195)	-27.8	.063 (-24.065)	-57.0	.03 (-30.413 )
-20.4	.07 (-23.119)	-28.0	.058 (-24.773)	-58.0	.023 (-32.668 )
-20.6	.062 (-24.197)	-28.2	.053 (-25.587)	-59.0	.016 (-36.107 )
-20.8	.053 (-25.468)	-28.4	.047 (-26.529)	-60.0	.008 (-42.09 )
-21.0	.045 (-26.994)	-28.6	.042 (-27.625)	-61.0	.00 (-69.717 )
-21.2	.036 (-28.877)	-28.8	.036 (-28.919)	-62.0	.007 (-43.621 )
-21.4	.027 (-31.306)	-29.0	.03 (-30.476)	-63.0	.013 (-37.972 )
-21.6	.018 (-34.695)	-29.2	.024 (-32.404)	-64.0	.018 (-35.078 )
-21.8	.01 (-40.284)	-29.4	.018 (-34.91)	-65.0	.021 (-33.354 )
-22.0	.001 (-59.656)	-29.6	.012 (-38.456)	-66.0	.024 (-32.313 )
-22.2	.007 (-42.568)	-29.8	.006 (-44.517)	-67.0	.026 (-31.736 )
-22.4	.016 (-36.075)	-30.0	.00 (-50)	-68.0	.027 (-31.508 )
-22.6	.024 (-32.495)	-31.0	.028 (-31.127)	-69.0	.026 (-31.56 )
-22.8	.031 (-30.051)	-32.0	.05 (-26.05)	-70.0	.026 (-31.847 )
-23.0	.039 (-28.222)	-33.0	.064 (-23.909)	-71.0	.024 (-32.34 )
-23.2	.046 (-26.786)	-34.0	.068 (-23.29)	-72.0	.022 (-33.018 )
-23.4	.052 (-25.623)	-35.0	.064 (-23.852)	-73.0	.02 (-33.869 )
-23.6	.058 (-24.665)	-36.0	.052 (-25.643)	-74.0	.018 (-34.884 )
-23.8	.064 (-23.867)	-37.0	.035 (-29.185)	-75.0	.016 (-36.058 )
-24.0	.069 (-23.201)	-38.0	.014 (-36.901)	-76.0	.014 (-37.393 )
-24.2	.074 (-22.644)	-39.0	.006 (-43.765)	-77.0	.011 (-38.892 )
-24.4	.078 (-22.182)	-40.0	.025 (-31.974)	-78.0	.009 (-40.562 )
-24.6	.081 (-21.803)	-41.0	.04 (-27.967)	-79.0	.008 (-42.419 )
-24.8	.084 (-21.499)	-42.0	.05 (-26.096)	-80.0	.006 (-44.48 )
-25.0	.086 (-21.264)	-43.0	.053 (-25.438)	-81.0	.005 (-46.776 )
-25.2	.088 (-21.091)	-44.0	.052 (-25.713)	-82.0	.003 (-49.346 )
-25.4	.089 (-20.979)	-45.0	.045 (-26.887)	-83.0	.002 (-52.249 )
-25.6	.09 (-20.923)	-46.0	.035 (-29.141)	-84.0	.002 (-55.573 )
-25.8	.09 (-20.922)	-47.0	.022 (-33.117)	-85.0	.001 (-59.453 )
-26.0	.089 (-20.976)	-48.0	.008 (-41.744)	-86.0	.001 (-64.118 )
-26.2	.088 (-21.083)	-49.0	.005 (-45.194)	-87.0	.00 (-69.99 )
-26.4	.087 (-21.243)	-50.0	.018 (-34.976)	-88.0	.00 (-78.011 )
-26.6	.085 (-21.459)	-51.0	.028 (-31.07)	-89.0	.00 (-91.156 )
-26.8	.082 (-21.731)	-52.0	.035 (-29.04)	-90.0	.00 (-50 )
-27.0	.079 (-22.062)	-53.0	.04 (-28.033)	90.0	.00 (-50 )

## Systems With Reliability (SWR, L.P.)

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CLIENT: *Ray Luke*

Date: 10/27/2023

ANTENNA TYPE: SWDDP4-4-4-0/16

FREQUENCY: 485

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 9.942/9.975 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 9.942/9.975 dBd

Null Fill(s)(%) : 0, 0, 0