

TABULATION OF RF HAZARD CALCULATIONS

Antenna height above ground:	45.7 m
Horizontal ERP	36300 W
Vertical ERP	0 W

Radial Distance from Base of Tower Structure (m)	Angle from Horizontal (deg)	Antenna Downward Relative Field Factor*	Distance From Transmitting Antenna (m)	Calculated Power Density (uW/cm ²)	Percent of General Population / Uncontrolled MPE (%)
0	90.00	0.001	43.70	0.0006	0.00
5	83.47	0.006	43.99	0.0226	0.01
10	77.11	0.026	44.83	0.4078	0.10
15	71.06	0.082	46.20	3.8190	0.90
20	65.41	0.177	48.06	16.4455	3.88
25	60.23	0.210	50.35	21.0944	4.98
30	55.53	0.133	53.01	7.6330	1.80
35	51.31	0.140	55.99	7.5808	1.79
40	47.53	0.188	59.24	12.2096	2.88
45	44.16	0.094	62.73	2.7227	0.64
50	41.15	0.082	66.41	1.8487	0.44
60	36.07	0.136	74.23	4.0701	0.96
70	31.98	0.122	82.52	2.6500	0.63
80	28.65	0.110	91.16	1.7654	0.42
90	25.90	0.007	100.05	0.0059	0.00
100	23.61	0.068	109.13	0.4707	0.11
200	12.33	0.173	204.72	0.8658	0.20
300	8.29	0.350	303.17	1.6159	0.38
400	6.23	0.388	402.38	1.1273	0.27
500	4.99	0.516	501.91	1.2815	0.30
600	4.17	0.684	601.59	1.5673	0.37
700	3.57	0.843	701.36	1.7516	0.41

* See attached elevation pattern for transmitting antenna (Dielectric model TFU-8WB-R C160).

ELEVATION PATTERN

Proposal No.

Date **13-Aug-19**

Call Letters **KKPX**

Channel **41**

Frequency **635 MHz**

Antenna Type **TFU-8WB-R C160**

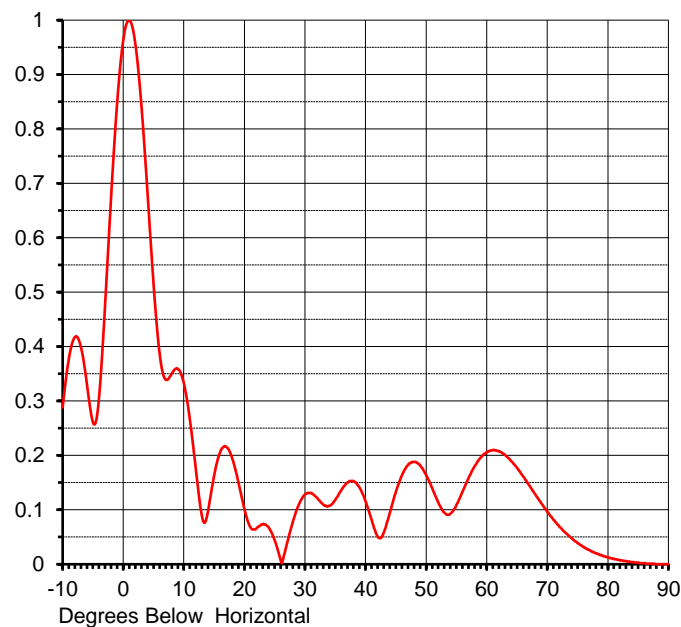
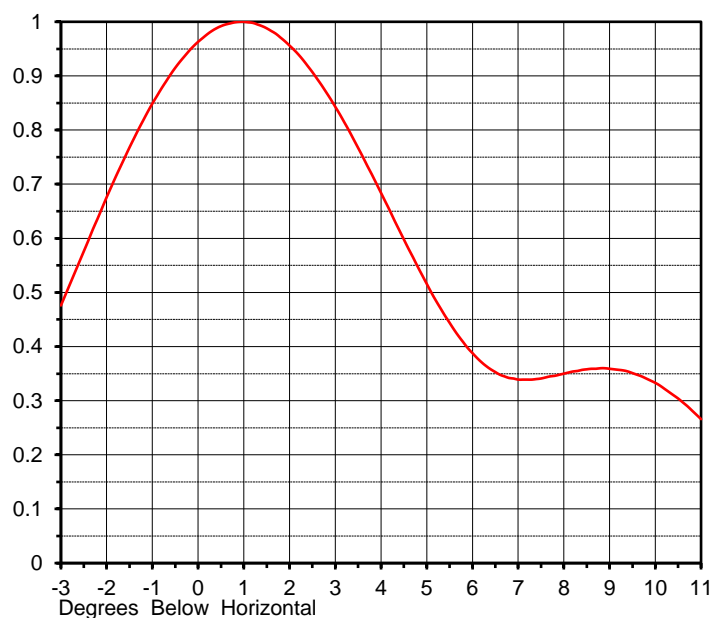
RMS Directivity at Main Lobe **7.8 (8.90 dB)**

RMS Directivity at Horizontal **7.2 (8.57 dB)**

Calculated

Beam Tilt **1.05 deg**

Pattern Number **08W078105-41**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.288	10.0	0.333	30.0	0.128	50.0	0.164	70.0	0.097
-9.0	0.376	11.0	0.266	31.0	0.131	51.0	0.140	71.0	0.082
-8.0	0.417	12.0	0.173	32.0	0.122	52.0	0.114	72.0	0.069
-7.0	0.400	13.0	0.088	33.0	0.110	53.0	0.095	73.0	0.058
-6.0	0.331	14.0	0.098	34.0	0.107	54.0	0.093	74.0	0.048
-5.0	0.261	15.0	0.163	35.0	0.118	55.0	0.109	75.0	0.039
-4.0	0.306	16.0	0.206	36.0	0.136	56.0	0.133	76.0	0.032
-3.0	0.476	17.0	0.216	37.0	0.150	57.0	0.158	77.0	0.026
-2.0	0.676	18.0	0.194	38.0	0.153	58.0	0.180	78.0	0.020
-1.0	0.849	19.0	0.151	39.0	0.141	59.0	0.196	79.0	0.016
0.0	0.963	20.0	0.102	40.0	0.116	60.0	0.206	80.0	0.013
1.0	1.000	21.0	0.068	41.0	0.082	61.0	0.210	81.0	0.010
2.0	0.956	22.0	0.066	42.0	0.051	62.0	0.208	82.0	0.007
3.0	0.843	23.0	0.073	43.0	0.058	63.0	0.201	83.0	0.006
4.0	0.684	24.0	0.068	44.0	0.094	64.0	0.190	84.0	0.004
5.0	0.516	25.0	0.044	45.0	0.133	65.0	0.177	85.0	0.003
6.0	0.388	26.0	0.007	46.0	0.163	66.0	0.162	86.0	0.002
7.0	0.339	27.0	0.037	47.0	0.182	67.0	0.145	87.0	0.001
8.0	0.350	28.0	0.078	48.0	0.188	68.0	0.129	88.0	0.000
9.0	0.359	29.0	0.110	49.0	0.182	69.0	0.112	89.0	0.000
								90.0	0.000

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