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 ACSModel  
 (MININEC 3.1 Core)  
 01-25-2017 14:25:35  
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KFTI  
 DA Night  
 Reradiator Model

Frequency = 1.070 MHz Wavelength = 280.18690 Meters

No. of Wires: 4

Wire No. 1 No. of X Segments	Coordinates Y	Z	Radius	End Connection
14.88782	141.6481	0		-1
14.88782	141.6481	77.8297	0.2911	0
20				

Wire No. 2 No. of X Segments	Coordinates Y	Z	Radius	End Connection
0	0	0		-2
0	0	77.8297	0.2911	0
20				

Wire No. 3 No. of X Segments	Coordinates Y	Z	Radius	End Connection
-14.88782	-141.6481	0		-3
-14.88782	-141.6481	77.8297	0.2911	0
20				

Wire No. 4 No. of X Segments	Coordinates Y	Z	Radius	End Connection
474.113	1534.455	0		-4
474.113	1534.455	30.99957	0.2911	0
8				

\*\*\*\* ANTENNA GEOMETRY \*\*\*\*

Wire No. 1 Pulse	Coordinates	Connection
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X	Y	Z	Radius	End1	End2	No.
14.88782	141.6481	0	0.2911	-1	1	1
14.88782	141.6481	3.891485	0.2911	1	1	2
14.88782	141.6481	7.782969	0.2911	1	1	3
14.88782	141.6481	11.67445	0.2911	1	1	4
14.88782	141.6481	15.56594	0.2911	1	1	5
14.88782	141.6481	19.45742	0.2911	1	1	6
14.88782	141.6481	23.34891	0.2911	1	1	7
14.88782	141.6481	27.24039	0.2911	1	1	8
14.88782	141.6481	31.13188	0.2911	1	1	9
14.88782	141.6481	35.02337	0.2911	1	1	10
14.88782	141.6481	38.91485	0.2911	1	1	11
14.88782	141.6481	42.80633	0.2911	1	1	12
14.88782	141.6481	46.69782	0.2911	1	1	13
14.88782	141.6481	50.5893	0.2911	1	1	14
14.88782	141.6481	54.48079	0.2911	1	1	15
14.88782	141.6481	58.37227	0.2911	1	1	16
14.88782	141.6481	62.26376	0.2911	1	1	17
14.88782	141.6481	66.15524	0.2911	1	1	18
14.88782	141.6481	70.04673	0.2911	1	1	19
14.88782	141.6481	73.93822	0.2911	1	0	20

Wire No.	2	Coordinates			Connection	
Pulse						
X	Y	Z	Radius	End1	End2	No.
0	0	0	0.2911	-2	2	21
0	0	3.891485	0.2911	2	2	22
0	0	7.782969	0.2911	2	2	23
0	0	11.67445	0.2911	2	2	24
0	0	15.56594	0.2911	2	2	25
0	0	19.45742	0.2911	2	2	26
0	0	23.34891	0.2911	2	2	27
0	0	27.24039	0.2911	2	2	28
0	0	31.13188	0.2911	2	2	29
0	0	35.02337	0.2911	2	2	30
0	0	38.91485	0.2911	2	2	31
0	0	42.80633	0.2911	2	2	32
0	0	46.69782	0.2911	2	2	33
0	0	50.5893	0.2911	2	2	34
0	0	54.48079	0.2911	2	2	35
0	0	58.37227	0.2911	2	2	36
0	0	62.26376	0.2911	2	2	37
0	0	66.15524	0.2911	2	2	38
0	0	70.04673	0.2911	2	2	39
0	0	73.93822	0.2911	2	0	40

Wire No.	3	Coordinates			Connection	
Pulse						
X	Y	Z	Radius	End1	End2	No.
-14.88782	-141.6481	0	0.2911	-3	3	41

-14.88782	-141.6481	3.891485	0.2911	3	3	42
-14.88782	-141.6481	7.782969	0.2911	3	3	43
-14.88782	-141.6481	11.67445	0.2911	3	3	44
-14.88782	-141.6481	15.56594	0.2911	3	3	45
-14.88782	-141.6481	19.45742	0.2911	3	3	46
-14.88782	-141.6481	23.34891	0.2911	3	3	47
-14.88782	-141.6481	27.24039	0.2911	3	3	48
-14.88782	-141.6481	31.13188	0.2911	3	3	49
-14.88782	-141.6481	35.02337	0.2911	3	3	50
-14.88782	-141.6481	38.91485	0.2911	3	3	51
-14.88782	-141.6481	42.80633	0.2911	3	3	52
-14.88782	-141.6481	46.69782	0.2911	3	3	53
-14.88782	-141.6481	50.5893	0.2911	3	3	54
-14.88782	-141.6481	54.48079	0.2911	3	3	55
-14.88782	-141.6481	58.37227	0.2911	3	3	56
-14.88782	-141.6481	62.26376	0.2911	3	3	57
-14.88782	-141.6481	66.15524	0.2911	3	3	58
-14.88782	-141.6481	70.04673	0.2911	3	3	59
-14.88782	-141.6481	73.93822	0.2911	3	0	60

Wire No.	4	Coordinates		Connection		
Pulse						
X	Y	Z	Radius	End1	End2	No.
474.113	1534.455	0	0.2911	-4	4	61
474.113	1534.455	3.874946	0.2911	4	4	62
474.113	1534.455	7.749892	0.2911	4	4	63
474.113	1534.455	11.62484	0.2911	4	4	64
474.113	1534.455	15.49978	0.2911	4	4	65
474.113	1534.455	19.37473	0.2911	4	4	66
474.113	1534.455	23.24968	0.2911	4	4	67
474.113	1534.455	27.12462	0.2911	4	0	68

Sources: 3  
Pulse No., Voltage Magnitude, Phase (Degrees): 1, 175.7, 39.2  
Pulse No., Voltage Magnitude, Phase (Degrees): 21, 396.7, 55.4  
Pulse No., Voltage Magnitude, Phase (Degrees): 41, 175.6, 71.4

Number of Loads: 0

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***** SOURCE DATA *****
Pulse 1      Voltage = (136.1368, 111.0305j)
              Current = (2.7908, -0.3655j)
              Impedance = (42.836, 45.394j)
              Power = 169.68 Watts

Pulse 21     Voltage = (225.271, 326.5489j)
              Current = (5.4059, 0.4971j)
              Impedance = (46.831, 56.1j)
              Power = 690.06 Watts

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Pulse 41 Voltage = (56.0163, 166.449j)  
Current = (2.6693, 0.7867j)  
Impedance = (36.218, 51.683j)  
Power = 140.24 Watts

Total Power = 999.973 Watts

\*\*\*\*\* FAR FIELD \*\*\*\*\*

Zenith Angle : Initial, Increment, Number: 90.0, 0.0, 1  
Azimuth Angle: Initial, Increment, Number: 0.0, 1.0, 360

\*\*\*\*\* PATTERN DATA \*\*\*\*\*

Radial Distance = 1000 Meters  
Power Level = 999.973 Watts

RMS

Elev. Angle	Azimuth Angle	E(Theta) Mag(mV/m)	Phase(Deg)
0.0	0.0	590.7440	90.0
0.0	1.0	588.3272	90.0
0.0	2.0	585.0168	90.0
0.0	3.0	580.8315	90.0
0.0	4.0	575.7930	90.0
0.0	5.0	569.9253	90.0
0.0	6.0	563.2552	90.0
0.0	7.0	555.8115	90.0
0.0	8.0	547.6265	90.0
0.0	9.0	538.7350	90.0
0.0	10.0	529.1753	90.0
0.0	11.0	518.9885	90.0
0.0	12.0	508.2181	90.0
0.0	13.0	496.9092	90.0
0.0	14.0	485.1083	90.0
0.0	15.0	472.8623	90.0
0.0	16.0	460.2179	90.0
0.0	17.0	447.2220	90.0
0.0	18.0	433.9212	90.0
0.0	19.0	420.3619	90.0
0.0	20.0	406.5903	90.0
0.0	21.0	392.6526	90.0
0.0	22.0	378.5945	90.0
0.0	23.0	364.4612	90.0
0.0	24.0	350.2969	90.0
0.0	25.0	336.1446	90.0
0.0	26.0	322.0454	90.0
0.0	27.0	308.0385	90.0
0.0	28.0	294.1609	90.0
0.0	29.0	280.4471	90.0
0.0	30.0	266.9293	90.0

0.0	31.0	253.6374	90.0
0.0	32.0	240.5987	90.0
0.0	33.0	227.8385	90.0
0.0	34.0	215.3800	90.0
0.0	35.0	203.2439	90.0
0.0	36.0	191.4489	90.0
0.0	37.0	180.0116	90.0
0.0	38.0	168.9464	90.0
0.0	39.0	158.2653	90.0
0.0	40.0	147.9782	90.0
0.0	41.0	138.0928	90.1
0.0	42.0	128.6146	90.1
0.0	43.0	119.5471	90.1
0.0	44.0	110.8917	90.1
0.0	45.0	102.6479	90.1
0.0	46.0	94.8137	90.1
0.0	47.0	87.3851	90.1
0.0	48.0	80.3570	90.1
0.0	49.0	73.7225	90.1
0.0	50.0	67.4739	90.1
0.0	51.0	61.6022	90.1
0.0	52.0	56.0975	90.1
0.0	53.0	50.9489	90.1
0.0	54.0	46.1450	90.1
0.0	55.0	41.6736	90.1
0.0	56.0	37.5219	90.2
0.0	57.0	33.6770	90.2
0.0	58.0	30.1252	90.2
0.0	59.0	26.8529	90.2
0.0	60.0	23.8463	90.3
0.0	61.0	21.0914	90.3
0.0	62.0	18.5742	90.4
0.0	63.0	16.2810	90.4
0.0	64.0	14.1981	90.5
0.0	65.0	12.3121	90.5
0.0	66.0	10.6098	90.6
0.0	67.0	9.0785	90.7
0.0	68.0	7.7058	90.9
0.0	69.0	6.4799	91.0
0.0	70.0	5.3893	91.3
0.0	71.0	4.4233	91.5
0.0	72.0	3.5717	91.9
0.0	73.0	2.8250	92.4
0.0	74.0	2.1743	93.1
0.0	75.0	1.6114	94.2
0.0	76.0	1.1294	96.0
0.0	77.0	0.7222	99.4
0.0	78.0	0.3875	107.7
0.0	79.0	0.1469	143.4
0.0	80.0	0.1803	-130.8

0.0	81.0	0.3285	-110.9
0.0	82.0	0.4420	-105.4
0.0	83.0	0.5102	-103.2
0.0	84.0	0.5324	-102.6
0.0	85.0	0.5086	-103.1
0.0	86.0	0.4388	-105.0
0.0	87.0	0.3236	-110.4
0.0	88.0	0.1729	-130.1
0.0	89.0	0.1437	139.9
0.0	90.0	0.3896	106.2
0.0	91.0	0.7255	98.5
0.0	92.0	1.1327	95.3
0.0	93.0	1.6141	93.7
0.0	94.0	2.1758	92.7
0.0	95.0	2.8250	92.1
0.0	96.0	3.5699	91.6
0.0	97.0	4.4194	91.3
0.0	98.0	5.3832	91.1
0.0	99.0	6.4717	90.9
0.0	100.0	7.6959	90.8
0.0	101.0	9.0673	90.7
0.0	102.0	10.5979	90.6
0.0	103.0	12.3002	90.5
0.0	104.0	14.1869	90.5
0.0	105.0	16.2712	90.4
0.0	106.0	18.5663	90.4
0.0	107.0	21.0857	90.3
0.0	108.0	23.8429	90.3
0.0	109.0	26.8514	90.2
0.0	110.0	30.1249	90.2
0.0	111.0	33.6770	90.2
0.0	112.0	37.5213	90.2
0.0	113.0	41.6713	90.1
0.0	114.0	46.1406	90.1
0.0	115.0	50.9422	90.1
0.0	116.0	56.0888	90.1
0.0	117.0	61.5926	90.1
0.0	118.0	67.4648	90.1
0.0	119.0	73.7157	90.1
0.0	120.0	80.3540	90.1
0.0	121.0	87.3872	90.1
0.0	122.0	94.8212	90.1
0.0	123.0	102.6602	90.1
0.0	124.0	110.9071	90.1
0.0	125.0	119.5632	90.1
0.0	126.0	128.6287	90.0
0.0	127.0	138.1023	90.0
0.0	128.0	147.9813	90.0
0.0	129.0	158.2615	90.0
0.0	130.0	168.9366	90.0

0.0	131.0	179.9979	90.0
0.0	132.0	191.4342	90.0
0.0	133.0	203.2314	90.0
0.0	134.0	215.3721	90.0
0.0	135.0	227.8366	90.0
0.0	136.0	240.6024	90.0
0.0	137.0	253.6452	90.0
0.0	138.0	266.9388	90.0
0.0	139.0	280.4557	90.0
0.0	140.0	294.1667	90.0
0.0	141.0	308.0406	90.0
0.0	142.0	322.0442	90.0
0.0	143.0	336.1413	90.0
0.0	144.0	350.2932	90.0
0.0	145.0	364.4583	90.0
0.0	146.0	378.5931	90.0
0.0	147.0	392.6523	90.0
0.0	148.0	406.5904	90.0
0.0	149.0	420.3614	90.0
0.0	150.0	433.9197	90.0
0.0	151.0	447.2199	90.0
0.0	152.0	460.2162	90.0
0.0	153.0	472.8622	90.0
0.0	154.0	485.1107	90.0
0.0	155.0	496.9139	90.0
0.0	156.0	508.2237	90.0
0.0	157.0	518.9931	90.0
0.0	158.0	529.1768	90.0
0.0	159.0	538.7324	90.0
0.0	160.0	547.6201	90.0
0.0	161.0	555.8034	90.0
0.0	162.0	563.2481	90.0
0.0	163.0	569.9221	90.0
0.0	164.0	575.7951	90.0
0.0	165.0	580.8385	90.0
0.0	166.0	585.0264	90.0
0.0	167.0	588.3359	90.0
0.0	168.0	590.7485	90.0
0.0	169.0	592.2505	90.0
0.0	170.0	592.8331	90.0
0.0	171.0	592.4923	90.0
0.0	172.0	591.2281	90.0
0.0	173.0	589.0439	90.0
0.0	174.0	585.9462	90.0
0.0	175.0	581.9444	90.0
0.0	176.0	577.0507	90.0
0.0	177.0	571.2815	90.0
0.0	178.0	564.6568	90.0
0.0	179.0	557.2018	90.0
0.0	180.0	548.9457	90.0

0.0	181.0	539.9219	90.0
0.0	182.0	530.1671	90.0
0.0	183.0	519.7205	90.0
0.0	184.0	508.6228	90.0
0.0	185.0	496.9165	90.0
0.0	186.0	484.6452	90.0
0.0	187.0	471.8539	90.0
0.0	188.0	458.5894	90.0
0.0	189.0	444.9001	90.0
0.0	190.0	430.8365	90.0
0.0	191.0	416.4500	90.0
0.0	192.0	401.7932	90.0
0.0	193.0	386.9185	90.0
0.0	194.0	371.8779	90.0
0.0	195.0	356.7224	90.0
0.0	196.0	341.5012	90.0
0.0	197.0	326.2622	90.0
0.0	198.0	311.0517	90.0
0.0	199.0	295.9145	90.0
0.0	200.0	280.8938	90.0
0.0	201.0	266.0315	90.0
0.0	202.0	251.3680	90.0
0.0	203.0	236.9418	90.0
0.0	204.0	222.7894	90.0
0.0	205.0	208.9447	90.0
0.0	206.0	195.4390	90.0
0.0	207.0	182.3006	90.0
0.0	208.0	169.5549	90.1
0.0	209.0	157.2241	90.1
0.0	210.0	145.3277	90.1
0.0	211.0	133.8822	90.1
0.0	212.0	122.9013	90.1
0.0	213.0	112.3963	90.1
0.0	214.0	102.3763	90.1
0.0	215.0	92.8478	90.1
0.0	216.0	83.8151	90.1
0.0	217.0	75.2803	90.1
0.0	218.0	67.2436	90.1
0.0	219.0	59.7026	90.1
0.0	220.0	52.6534	90.1
0.0	221.0	46.0896	90.2
0.0	222.0	40.0033	90.2
0.0	223.0	34.3847	90.2
0.0	224.0	29.2225	90.2
0.0	225.0	24.5038	90.3
0.0	226.0	20.2145	90.4
0.0	227.0	16.3395	90.5
0.0	228.0	12.8624	90.6
0.0	229.0	9.7664	90.8
0.0	230.0	7.0337	91.0



0.0	231.0	4.6463	91.5
0.0	232.0	2.5859	92.7
0.0	233.0	0.8374	98.3
0.0	234.0	0.6486	-100.6
0.0	235.0	1.8386	-93.6
0.0	236.0	2.7849	-92.4
0.0	237.0	3.5017	-91.8
0.0	238.0	4.0075	-91.6
0.0	239.0	4.3209	-91.5
0.0	240.0	4.4605	-91.4
0.0	241.0	4.4444	-91.4
0.0	242.0	4.2902	-91.4
0.0	243.0	4.0154	-91.5
0.0	244.0	3.6365	-91.6
0.0	245.0	3.1698	-91.9
0.0	246.0	2.6308	-92.2
0.0	247.0	2.0346	-92.9
0.0	248.0	1.3956	-94.2
0.0	249.0	0.7289	-98.1
0.0	250.0	0.1079	-161.4
0.0	251.0	0.6659	98.8
0.0	252.0	1.3484	94.3
0.0	253.0	2.0173	92.9
0.0	254.0	2.6609	92.2
0.0	255.0	3.2701	91.8
0.0	256.0	3.8367	91.5
0.0	257.0	4.3537	91.3
0.0	258.0	4.8146	91.2
0.0	259.0	5.2140	91.1
0.0	260.0	5.5473	91.1
0.0	261.0	5.8106	91.0
0.0	262.0	6.0011	91.0
0.0	263.0	6.1165	91.0
0.0	264.0	6.1557	91.0
0.0	265.0	6.1180	91.0
0.0	266.0	6.0041	91.0
0.0	267.0	5.8150	91.0
0.0	268.0	5.5528	91.1
0.0	269.0	5.2204	91.2
0.0	270.0	4.8216	91.3
0.0	271.0	4.3609	91.5
0.0	272.0	3.8438	91.7
0.0	273.0	3.2766	92.0
0.0	274.0	2.6664	92.5
0.0	275.0	2.0215	93.3
0.0	276.0	1.3512	95.0
0.0	277.0	0.6679	100.2
0.0	278.0	0.1241	-162.4
0.0	279.0	0.7365	-99.2
0.0	280.0	1.4041	-94.7

0.0	281.0	2.0444	-93.2
0.0	282.0	2.6416	-92.4
0.0	283.0	3.1810	-92.0
0.0	284.0	3.6474	-91.7
0.0	285.0	4.0252	-91.5
0.0	286.0	4.2984	-91.4
0.0	287.0	4.4505	-91.3
0.0	288.0	4.4644	-91.3
0.0	289.0	4.3229	-91.4
0.0	290.0	4.0080	-91.6
0.0	291.0	3.5017	-91.9
0.0	292.0	2.7853	-92.4
0.0	293.0	1.8404	-93.8
0.0	294.0	0.6530	-100.9
0.0	295.0	0.8318	98.6
0.0	296.0	2.5774	92.8
0.0	297.0	4.6362	91.5
0.0	298.0	7.0235	91.0
0.0	299.0	9.7577	90.7
0.0	300.0	12.8571	90.5
0.0	301.0	16.3389	90.4
0.0	302.0	20.2195	90.3
0.0	303.0	24.5141	90.3
0.0	304.0	29.2369	90.2
0.0	305.0	34.4010	90.2
0.0	306.0	40.0187	90.2
0.0	307.0	46.1014	90.2
0.0	308.0	52.6593	90.1
0.0	309.0	59.7017	90.1
0.0	310.0	67.2361	90.1
0.0	311.0	75.2680	90.1
0.0	312.0	83.8006	90.1
0.0	313.0	92.8344	90.1
0.0	314.0	102.3667	90.1
0.0	315.0	112.3923	90.1
0.0	316.0	122.9030	90.1
0.0	317.0	133.8886	90.1
0.0	318.0	145.3366	90.1
0.0	319.0	157.2330	90.1
0.0	320.0	169.5615	90.1
0.0	321.0	182.3038	90.0
0.0	322.0	195.4387	90.0
0.0	323.0	208.9421	90.0
0.0	324.0	222.7859	90.0
0.0	325.0	236.9389	90.0
0.0	326.0	251.3663	90.0
0.0	327.0	266.0310	90.0
0.0	328.0	280.8938	90.0
0.0	329.0	295.9141	90.0
0.0	330.0	311.0503	90.0

0.0	331.0	326.2600	90.0
0.0	332.0	341.4991	90.0
0.0	333.0	356.7217	90.0
0.0	334.0	371.8796	90.0
0.0	335.0	386.9227	90.0
0.0	336.0	401.7989	90.0
0.0	337.0	416.4552	90.0
0.0	338.0	430.8391	90.0
0.0	339.0	444.8988	90.0
0.0	340.0	458.5839	90.0
0.0	341.0	471.8459	90.0
0.0	342.0	484.6375	90.0
0.0	343.0	496.9119	90.0
0.0	344.0	508.6234	90.0
0.0	345.0	519.7263	90.0
0.0	346.0	530.1764	90.0
0.0	347.0	539.9313	90.0
0.0	348.0	548.9517	90.0
0.0	349.0	557.2021	90.0
0.0	350.0	564.6511	90.0
0.0	351.0	571.2717	90.0
0.0	352.0	577.0406	90.0
0.0	353.0	581.9376	90.0
0.0	354.0	585.9453	90.0
0.0	355.0	589.0492	90.0
0.0	356.0	591.2376	90.0
0.0	357.0	592.5025	90.0
0.0	358.0	592.8403	90.0
0.0	359.0	592.2520	90.0