

Manufacturer	Model Number	No. of Units	Experimental (Y/N)	Width of Beam at 1/2 Power point (deg)				C-Band		X-Band		Ku-Band		Ka-Band		All Bands			
								G-28 (89W)		WGS-3 (12W)		Amazonas 2 (61 W)		WGS-3 (12W)		Geosynchronous Satellite Arc (Satellite Longitude Range from 2° West to 145° West)			
				C-Band @ 6 GHz	X-Band @ 8 GHz	Ku-Band @ 14 GHz	Ka-Band @ 30.5 GHz	Orientation		Orientation		Orientation		Orientation		Orientation			
								Horiz. plane (deg)	Vert. plane (deg)	Horiz. plane (deg)	Vert. plane (deg)	Horiz. plane (deg)	Vert. plane (deg)	Horiz. plane (deg)	Vert. plane (deg)	Horiz. plane (deg)	Vert. plane (deg)		
L-3 Communications, NSN	3.9M OE-593/F	1	Yes	0.90	0.67	0.38	0.18	203.4	40.1	109.7	12.8	161.6	41.1	109.7	12.8	$EL = \arctan \left[\frac{\cos(40.B) \cdot \cos(-73.233 + SatLong) - 0.1526}{\sqrt{1 - (\cos(40.B) \cdot \cos(-73.233 + SatLong))^2}} \right]$		$AZ = \arccos \left[-\tan \left[\arcsin(\cos(40.B) \cdot \cos(-73.233 + SatLong)) \right] \cdot \tan(40.B) \right]$	
L-3 Communications, NSN	2.4 M AN/USC-60A	1	Yes	1.46	1.09	0.63	0.29												
L-3 Communications, GCS	1.2 M GCS-1512E-040	1	Yes	2.92	2.19	1.25	0.57												
L-3 Communications, GCS	1.6 M GCS-1516E-K-040	1	Yes	2.19	1.64	0.94	0.43												
L-3 Communications, GCS	2.0 M GCS-1520E-040	1	Yes	1.75	1.31	0.75	0.34												
L-3 Communications, GCS	2.4 M GCS-1524E-040	1	Yes	1.46	1.09	0.63	0.29												
Vertex	Vertex 2.4M Flyaway ANTSC-179	1	Yes	1.46	1.09	0.63	0.29	As defined by equation										As defined by equation.	