

FORCAST Early Science Sensitivities* (S/N=4 in 900s on-source)

Filter	Single Channel		Dual Channel	
	Point Source	Extended Source	Point Source	Extended Source
	F_v (mJy)	F_v (mJy/pix)	F_v (mJy)	F_v (mJy/pix)
Short Wavelength Channel				
5.6 μm	39.7	5.06		
6.3	54.4	6.93		
6.6	65.3	8.30		
7.6	63.7	8.05		
8.6	60.2	7.56		
11.0	44.2	5.44	46.4	5.72
11.3	107	13.1	112	13.8
12.3	56.5	6.89	59.3	7.23
19.5	50.8	5.74	53.4	6.02
Long Wavelength Channel				
30.6	144	13.9	214	20.7
38.0			339	30.4

Input Parameters:

Source Temp = 300 K, Telescope Temp = 240K, Sky Temp = 240K, Telescope Emissivity = 0.15, Image Quality = 5.3", Altitude = 35000 ft, Zenith Angle = 60deg.

* These sensitivities are the expected sensitivities for Early Science and commissioning only, and differ from those during Full Operational Capability.