MCST STATUS BRIEFING

- Continued management restructuring

- Moved to fewer number of more senior support staff

- About to move to new support contractor

- Beta-2 algorithm delivery
  - top level design frozen middle July
  - delivery at end of this month

- Installed Engineering Model computer test equipment

- Redesigned theoretical basis of Level 1 data product

- Initiated requisite independent sensor studies

- Participated in Round-robin measurement comparisons

- Instituted weekly electronic newsletter/status report

LESSONS TOLD

GOES SN03 SCAN MIRROR WITNESS - SiO$_x$ ON Al
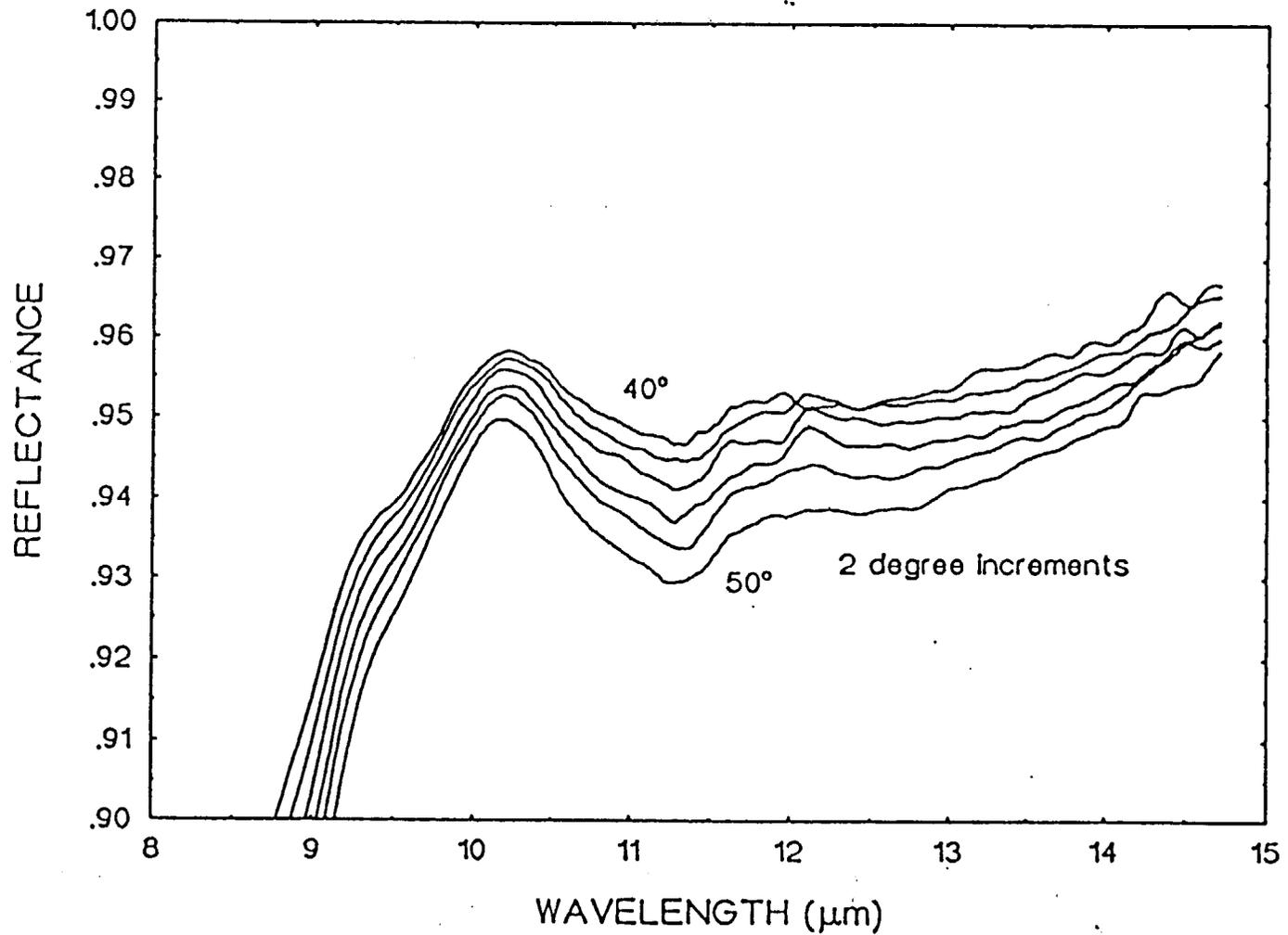
Figure 2: Reflectance of GOES SN03 ...

LESSONS TOLD

Even Band Along Scan
Signal Path Diagram

Direct
Illumination

Optical
Blur

In-Band
Optical
Crosstalk

BG26+39 Ghosts,
Optical Crosstalk,
Lens Reflections

Primary Scatter,
Electronic Tail

Primary
Scatter
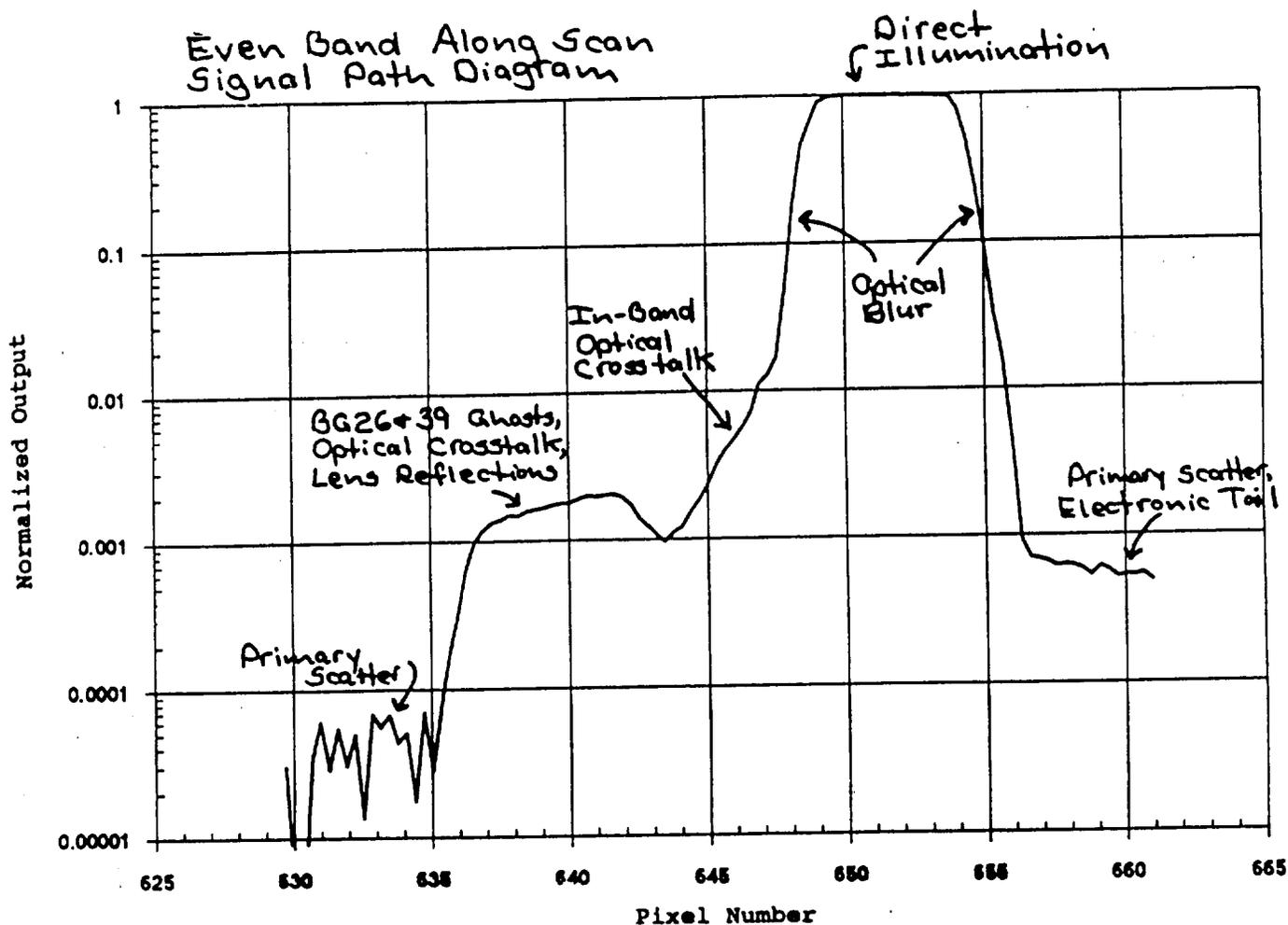
Figure 7. Stray Light Paths in the SeaWiFS Radiometer. For the even band in this example, the dominant stray light sources occur before the bright target. For odd bands, the dominant sources occur after the bright target.

IMPLICATIONS FOR LESSONS TOLD

	GOES-8	SeaWiFS
REFLECTANCE (Radiometry)	Varies as function of wavelength, SBRC & GSFC have no way to make these measurements. **Will need to make cold-space scan** (once) **to verify performance in IR.**	Varies as function of wavelength, but laboratory measurements can be made in reflected-solar wavelenghts.
CONTAMINATION/ micro-roughness (Stray Light)	May be important to us; will consider use of "natural effects" (i.e. storm system edges, beaches) to assess effects on-orbit; will profit from one on-orbit verification via cold space/lunar scan.	Unimportant scatter implications

Lunar view can be obtained with 25 degree spacecraft roll, which has minimal risks. Current understanding of reflectance issues in the IR is that these mirror characteristics will not change with time in-orbit. so a single col-space look (large roll) appears adequate. We will request these maneuvers
- monthly 25 degree spacecraft roll to view the moon at the edge of MODIS scan, and
- one large angle spacecraft roll early in mission to determine mirror IR reflectance on-orbit.

This request will be delivered to EOS SWAMP proceedings next Wednesday, during the IWG