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14 00061867D

[REDACTED]

28 November 1966

[REDACTED]

1037

Density/Luminance

Analysis

Mission Segment

1037-1

Declassified and Released by the N R O

In Accordance with E. O. 12958

on NOV 26 1997

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CONCLUSIONS:

1. Luminance values were slightly higher than those of recent past missions.
2. There was a smaller number of underexposed frames in this mission compared to recent missions. The higher luminance values were probably responsible.
3. Processing was good with about 16 correctable by a processing change.
4. The film latitude was adequate for the majority of frames sampled.
5. Preliminary results of the Index record analysis indicate a continuance of the somewhat higher density levels of recent missions.

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DENSITY TOLERANCE ANALYSIS

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MISSION: 1007

	1 FWD	1 AFT
I. SATISFACTORY EXPOSURE	89.5	90.5
A. Within Tolerance		
1. Best Possible Process	80.5	81.1
2. Over Processed	2.4	4.6
3. Under Processed	5.0	3.6
B. Out of Tolerance		
1. Over Processed	.9	1.2
2. Under Processed	.9	0.0
II. UNSATISFACTORY EXPOSURE	10.2	9.4
A. Over Exposure		
1. Best (Primary) Process	0.0	0.0
2. Over Processed	0.0	.5
B. Under Exposure		
1. Best (Full) Process	10.2	8.9
2. Under Processed	0.0	0.0
III. BEYOND SYSTEM CAPABILITY	.2	.2
A. Beyond System Latitude		
1. Best Process	0.0	0.0
2. Over Processed	.2	.2
3. Under Processed	0.0	0.0
B. Out of Phase		
1. Best Process	0.0	0.0
2. Over Processed	0.0	0.0
3. Under Processed	0.0	0.0

DENSITY TOLERANCE LIMITS

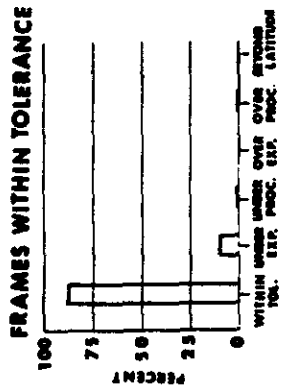
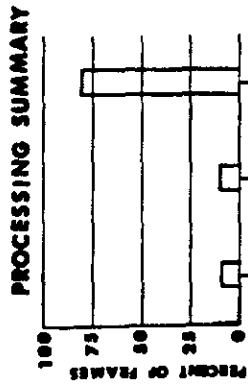
CRITERIA USED FOR ANALYSIS: 1.2 CONTRAST  
W - 23A FILTER (FWD SYSTEM)

PROCESS	LOWER DENSITY	UPPER DENSITY
PRI.	.42	2.08
INT.	.41	2.10
FULL	.50	2.11

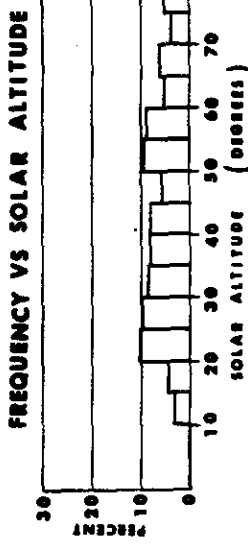
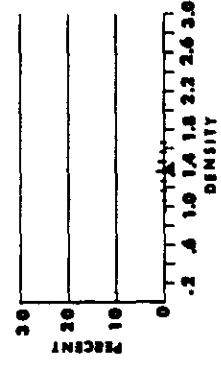
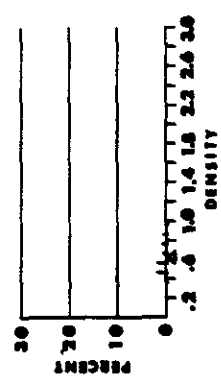
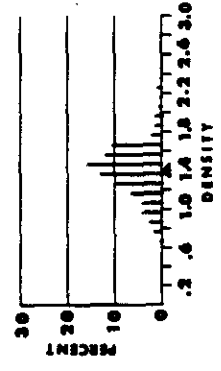
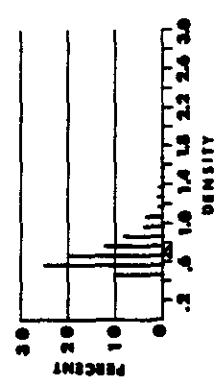
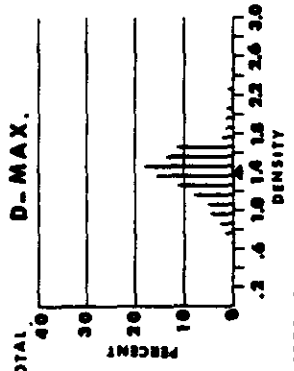
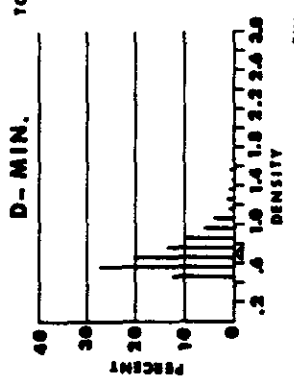
W - 21 FILTER (AFT SYSTEM)

PROCESS	LOWER DENSITY	UPPER DENSITY
PRI.	.38	2.06
INT.	.40	2.12
FULL	.50	2.07

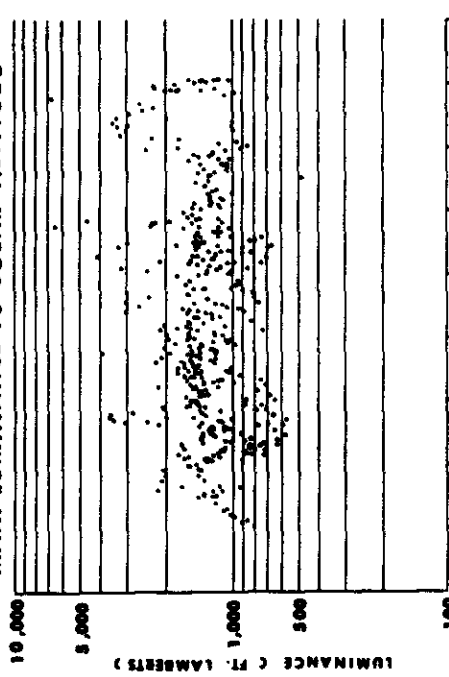
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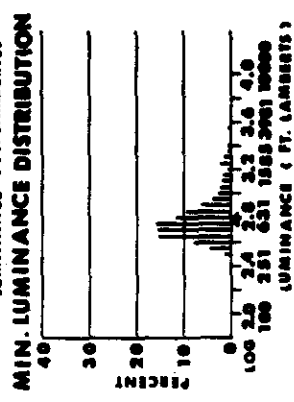
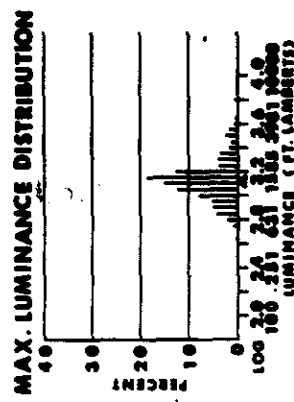
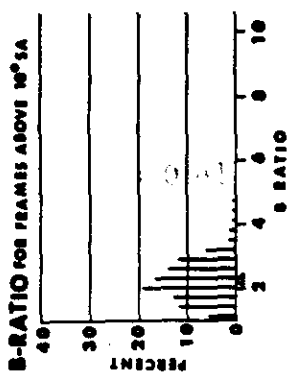
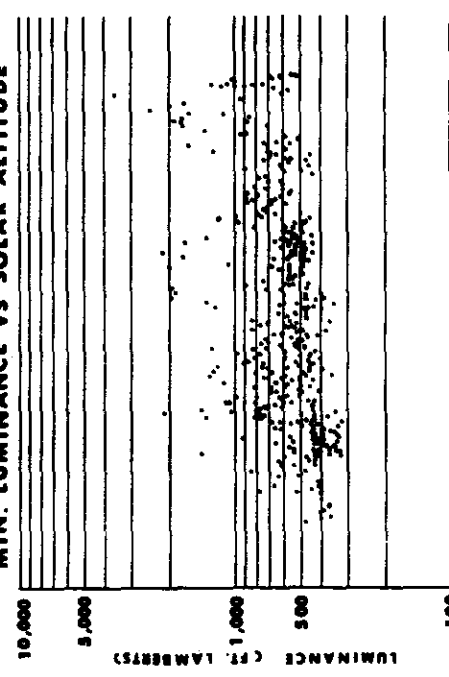
DENSITY SUMMARY



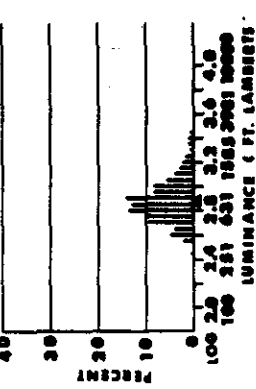
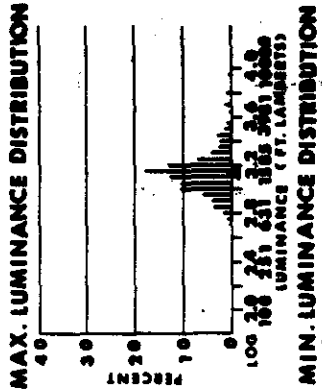
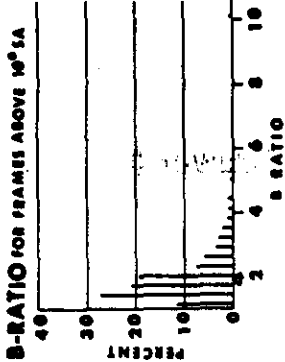
MAX. LUMINANCE VS SOLAR ALTITUDE



MIN. LUMINANCE VS SOLAR ALTITUDE



**DENSITY / LUMINANCE**  
 Profile  
 Launch Date 6 November 1966  
 Filter No. 4/31  
 No. Obs. 422  
 Slit Width .225  
 % of Frames Sampled 1.5  
 Processor M.L.T.W.  
**Δ-MEAN 1037 FWD!**



**DENSITY / LUMINANCE**  
 Processed  
 Launch Date 6 November 1966  
 Filter No. 4/21  
 No. Obs. 419  
 Slit Width .175

% of Frames Sampled 14.5  
 Processor T.E.TOT

**A-MEAN 1037AFT**

