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TARGET SIGNATURE ANALYSIS CENTER: DATA COMPILATION Supplement

**Infrared and Optical Sensor Laboratory
Willow Run Laboratories
Institute of Science and Technology
The University of Michigan
Ann Arbor, Michigan**

MAR 15 1967
A 47

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**Air Force Avionics Laboratory
Research and Technology Division
Air Force Systems Command
Wright-Patterson Air Force Base, Ohio**

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DDC CONTROL
NO. 71282

Fred J. Valente

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(UNCLASSIFIED TITLE)

**TARGET SIGNATURE ANALYSIS CENTER:
DATA COMPILATION
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FOREWORD
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This report, Willow Run Laboratories Report No. 7850-9-B, is a classified supplement to Willow Run Laboratories report No. 7850-2-B, Target Signature Analysis Center: Data Compilation, and was prepared at the Willow Run Laboratories of The University of Michigan's Institute of Science and Technology. The preparation of the report began under Air Force contract number AF 33(657)-10974 and was completed under Air Force contract number AF 33(615)-3654. The work was administered under the direction of the Reconnaissance Division, Air Force Avionics Laboratory, Research and Technology Division, Air Force Systems Command, Wright-Patterson Air Force Base, with Mr. Bruno K. Wernicke as project engineer.

This technical report has been reviewed and is approved.

Bruno K. Wernicke
Project Engineer

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TARGET SIGNATURE ANALYSIS CENTER: DATA COMPILATION Supplement

1 INTRODUCTION *Unclassified*

The Target Signature Analysis Center established at The University of Michigan and sponsored by the Air Force Avionics Laboratory is intended to provide a centralized source of data and analysis techniques useful for improving remote sensors. Data on the electromagnetic properties of target and background materials (e.g., reflectance, transmittance, emittance, and radar cross sections) are collected, reduced to a standard format, and disseminated to other researchers.

The Target Signature Analysis Center data compilation is being published in two volumes. The first volume contained only unclassified data to facilitate wide distribution. This supplement contains the classified data and consists of approximately 350 curves on the optical properties of various target and background objects. The data are confined to the portion of the electromagnetic spectrum from 0.2 to 15.0 μ . The data reported include:

- (1) Directional reflectance vs. wavelength
- (2) Emittance vs. wavelength
- (3) Degree of linear polarization vs. wavelength
- (4) Degree of linear polarization vs. zenith angle of observation
- (5) Degree of linear polarization vs. azimuth angle of observation

The data result from several independent investigations conducted by experimenters throughout the country and for which a variety of instrumentation has been used. So that the data may be more readily interpreted, section 2 is devoted to describing in some detail the various sets of equipment used.

Section 3.1 presents the data format. Section 3.2 contains the data. Each curve has been assigned several alphabetic descriptor codes to identify the object measured, instrumentation, optical property measured, and spectral interval. The curves have been grouped according to the coded descriptor that best indicates the object. Section 3.3 is the subject cross-index to section 3.2 and a list containing all documents from which the data in section 3.2 were extracted is included at the end of this report.

2
DESCRIPTION OF INSTRUMENTATION
Unclassified

This section contains descriptions of the instruments used to obtain the data presented in section 3.

2.1. DETROIT ARSENAL REFLECTANCE MEASUREMENTS

The measurements reported herein from the Detroit Arsenal were made with a Perkin-Elmer Recording Spectrometer and a Coblentz hemispherical reflectance attachment. Figure 1 is a schematic diagram of the measurement apparatus. Basically, the incident radiation, which is very nearly monochromatic, is focused on the sample through a small hole in the hemisphere.

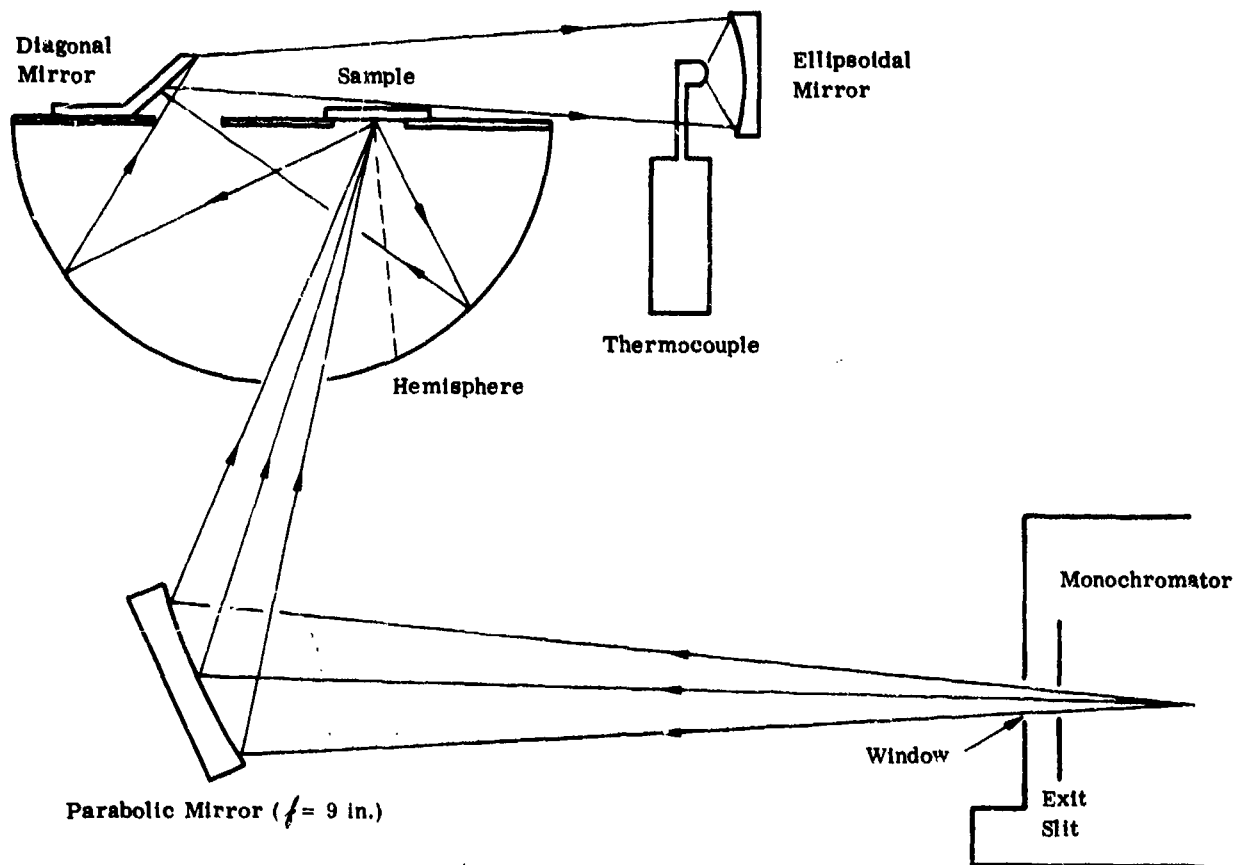


FIGURE 1. COBLENTZ HEMISPHERE USED BY DETROIT ARSENAL [1]
Unclassified

The sample is located at a small distance from the sphere's center. Energy reflected by the sample in any direction is re-reflected by the gold-coated hemisphere (a specular reflector) and focused at a spot in the sample plane diametrically opposite the sample. By a system of mirrors the collected energy is focused on the detector.

The instrument was calibrated separately for specular reflectors and for diffuse reflectors. For specular reflectors, an evaporated aluminum standard of known reflectance was placed in the sample location, and the instrument slit widths were adjusted until the reading coincided with the predetermined value. The slit width was recorded for that wavelength and the procedure repeated at 1.0- μ intervals between 1 and 12 μ . The first wavelength read was 1 μ . The resulting set of slit widths was used for all samples considered specular, and the reading was recorded as reflectance. In the case of a diffuse reflector, the same procedure was followed using a smoked MgO standard.

2.2. NOTS POLARIZATION MEASUREMENTS

The data obtained at the Naval Ordnance Test Station (NOTS), China Lake, Calif., consist of measurements of the degree of linear polarization of light reflected from target and background objects. The data result from a joint laboratory and field study and are reported in three forms:

- (1) P_L vs. λ ,
- (2) P_L vs. θ ,
- (3) P_L vs. ϕ ,

where

P_L = degree of linear polarization

λ = wavelength

θ = zenith angle of observation

ϕ = azimuth angle of observation

2.2.1. FIELD MEASUREMENTS. Field measurements were made using a specially designed polarimeter consisting of a Polaroid HM-22 high extinction linear polarization filter, an f/4 250-mm telephoto lens, an eyepiece to observe the field of view, and an RCA 200-4-25-2.0 silicon photodetector (fig. 2). The wavelength was monitored by inserting any one of a series of 20-m μ optical bandpass filters behind the polarization analyzer. The filters were centered at the following peak wavelengths: 486, 520, 546, 579, 589, 656, and 706 m μ . The detector field of view was two degrees.

The polarimeter was mounted on a tripod for measuring terrain. The positions of the sun and polarimeter with respect to the observed ground were recorded using the notation shown in figure 3. The polarization analyzer was then rotated and currents corresponding to the maximum and minimum transmitted fluxes (I_1 and I_2) were recorded. The degree of linear polarization was calculated from the following equation:

$$P_L = \frac{I_1 - I_2}{I_1 + I_2}$$

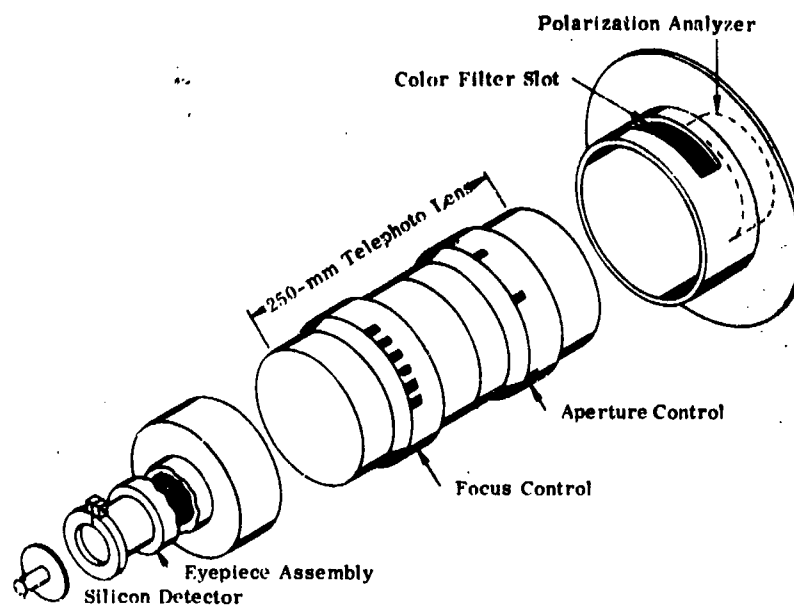


FIGURE 2. PHOTOELECTRIC FIELD POLARIMETER [2]

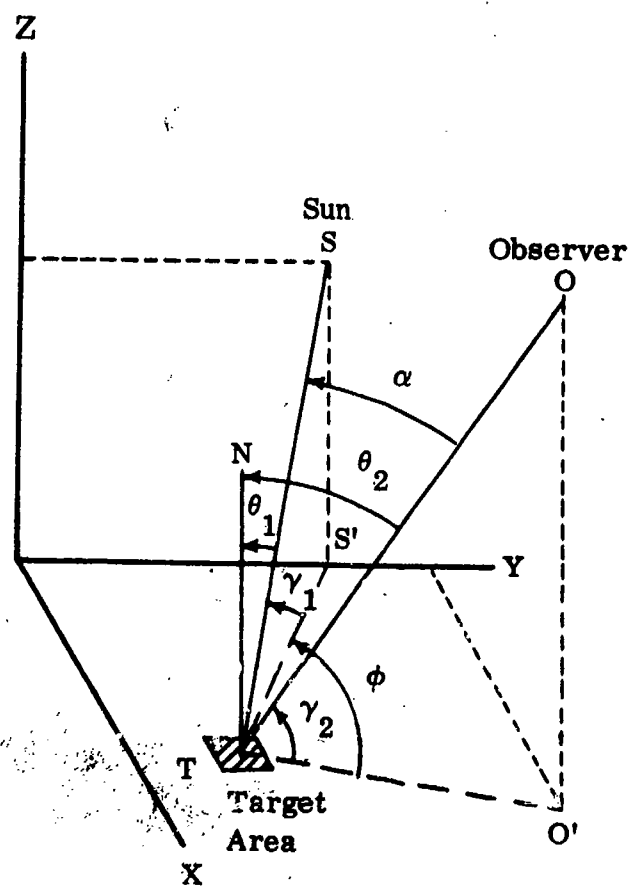


FIGURE 3. GEOMETRY OF FIELD MEASUREMENTS [2]
Unclassified

2.2.2. LABORATORY MEASUREMENTS. Laboratory measurements were conducted in much the same way as the field studies. The instrument (fig. 4) differed basically from the field instrument in two respects: (1) an artificial source was used rather than the natural illumination, and (2) the source and the detector were coplanar; for the field measurements, the detector could be situated at any desired azimuth in relation to the sun. The source was fixed, while the sample could be tilted to allow various incidence angles. The detector could also be moved independent of the sample holder to permit several viewing angles.

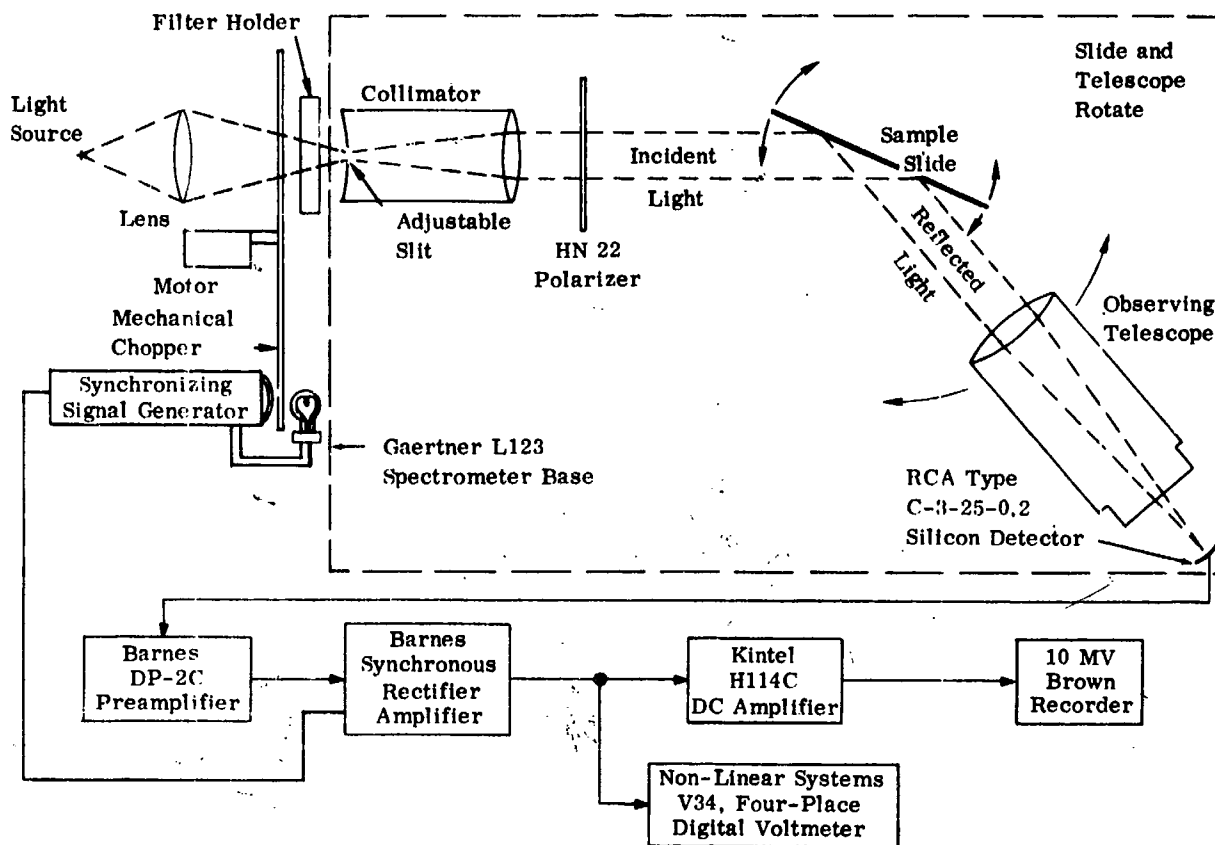


FIGURE 4. LABORATORY POLARIMETER AND INSTRUMENTATION [2]
Unclassified

The illumination angles used in this study were 30° , 60° , and 80° , and the observation angle varied from 5° to 85° .

The polarizer was inserted in the incident beam in first the perpendicular and then the parallel orientation. Light reflected from the sample, $V_\perp$ and $V_\parallel$ respectively, was recorded.

Here the degree of linear polarization, P_L , is given by

$$P_L = \frac{V_\perp - CV_\parallel}{V_\perp + CV_\parallel}$$

where $V_{\perp, r}$ = voltage observed upon reflection in the direction θ_r of perpendicularly polarized light at an incidence angle θ_i

$V_{\parallel, r}$ = voltage observed upon reflection in the direction θ_r of parallel polarized light at an incidence angle θ_i

2.3. MARTIN-MARIETTA REFLECTANCE MEASUREMENTS

The measurements reported herein from the Martin-Marietta Corporation are directional reflectance vs. wavelength, primarily in the ultraviolet portion of the electromagnetic spectrum. The measurements were made with two instruments, a Cary 14R reflectometer, and a Perkin-Elmer normal incidence reflectometer. These instruments are both standard manufacturer's items.

2.3.1. CARY 14R REFLECTOMETER. This instrument is shown schematically in figure 5. Sample illumination was achieved by placing a high intensity source at a small port in the bottom of the integrating sphere. The sample is thus illuminated by a broad spectral band, hemispherical source. A double prism grating monochromator then alternately looks at a MgCO_3 reference and the sample. This instrument may be operated over the 0.2- to 2.2- μ range.

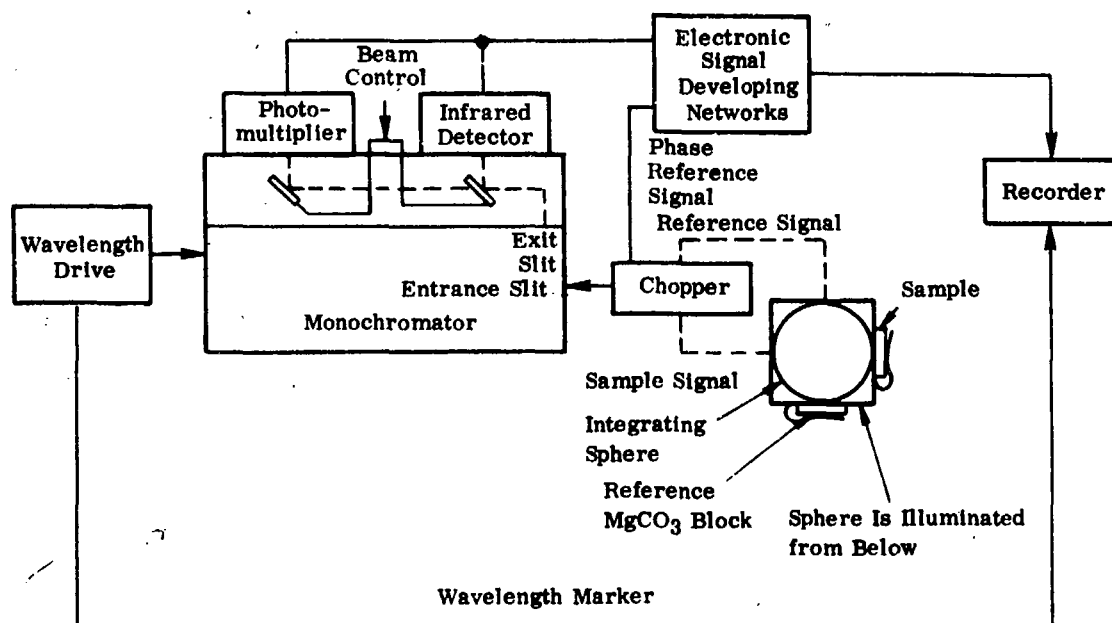


FIGURE 5. CARY 14R REFLECTOMETER [3]
Unclassified

2.3.2. PERKIN-ELMER NORMAL INCIDENCE REFLECTOMETER. This instrument is shown schematically in figure 6. In operation, broad spectral band light is collected and focused on the sample at the reflectance unit (fig. 7). Light reflected from the sample is collected and

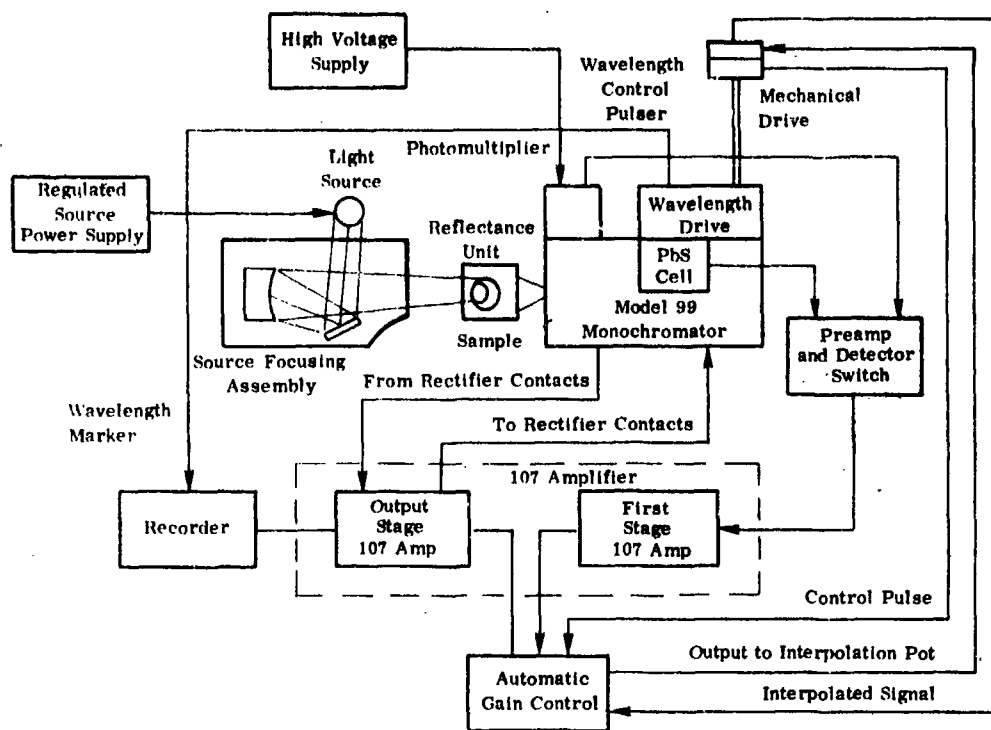


FIGURE 6. PERKIN-ELMER NORMAL INCIDENCE REFLECTOMETER [3]
Unclassified

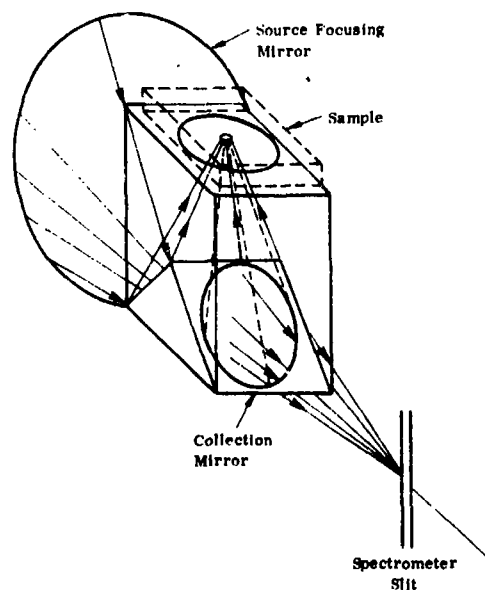


FIGURE 7. PERKIN-ELMER REFLECTANCE UNIT [3]
Unclassified

focused onto the entrance slit of a Perkin-Elmer Model 99 monochromator where it is analyzed spectrally from 0.2 to 0.4 μ . The measurements were made using a MgCO_3 reflectance standard.

3
OPTICAL DATA
Secret

3.1. (U) DATA FORMAT

In order to transfer a data curve from a source document to the Target Signature Library, the curve is first manually digitized and keypunched on IBM cards. Great care is exercised to preserve all significant details of the original curve except those attributable to instrument noise. Data points are taken in such a way that a new curve formed by connecting the data points with straight lines will duplicate the original curve. In essence, this amounts to taking data points at all significant inflection points on the curve. Thus relatively few data points are required to describe a smooth curve, while many points may be required to describe a highly erratic curve.

The keypunched cards are the mechanism for transferring the data to magnetic tape in the Target Signature Library, and for printing out data curves in a standard format on a plotting machine. All curves presented in this report have been prepared by this process.

The header information above each curve includes the curve identification number, the curve title, subject codes, and parameter information.

The curve identification number consists of the internal control letter "B" and eight digits. The first five digits identify the document from which the data were taken (the bibliography at the end of this report lists the documents by control letter and these five digits). The last three digits have been arbitrarily assigned by the Target Signature Analysis Center for purposes of retrieval and serve to identify a particular curve within a given source.

The subject code consists of a group of letters assigned to each curve to enable retrieval by subject. Each letter represents a specific descriptor, and each curve is assigned as many letters as are required to describe it adequately. The Target-Signature Subject-Code List (table I) explains the codes.

As an example, a curve may be described as follows:

Object Measured:	Loam (BFEA)
Instrumentation:	General Electric Spectrophotometer (CDB)
Experimental Platform:	Laboratory (CED)
Quantity Measured:	Directional reflectance where the specular component has been included in the measurement (DFAA)
Reflectance Standard:	Magnesium Oxide (DFCE)
Spectral Interval:	0.4-0.7 μ (ECB) and 0.7-1.5 μ (ECCA)

The conditions of the experiment, called parameter information, are also listed on the printed header in abbreviated form. This information is derived from the original source when

available. For many of the data, very few parameter entries appear because the source lacked documentation of the experimental parameters or because parameters are not applicable to all measurements; e.g., parameters such as altitude and range do not apply to laboratory measurements. Table II is the key for interpreting the parameter information.

The optical data that follow are arranged according to the subject code most descriptive of the object or sample. Each data curve has been assigned several codes, and a complete cross-index of curve-identification numbers by subject code and their location within this document may be found in section 3.3. Since the Target-Signature Subject-Code List contains a large number of specific types of target and background categories, it was necessary in some cases to group data into somewhat broader categories. The sections containing the optical data are:

AAKA	Clothing
AEA	Aluminum
AEB	Asphalt
AEC	Brick
AEG	Concrete
AEH	Dirt
AEI	Galvanized Steel
AEK	Gravel
AEL	Metal
AEM	Paint
AEO	Plastic
AEP	Rubber
AEQ	Tar
AER	Tile
AET	Wood
BF	Soil
BG	Vegetation
BH	Water

TABLE I. TARGET-SIGNATURE SUBJECT CODE LIST

Unclassified			
A	TARGETS	AEMA	White Pigments
AA	Ground	AEMAA	Zinc Oxide (Zinc White)
AAA	Buildings	AEMAB	Lead Basic Carbonate (White Lead)
AAB	Guns		Titanium Dioxide
AABA	Artillery	AEMAC	Green Pigments
AABB	Rifles	AEMB	Chromic Oxide (Chrome Green)
AAC	Industrial Facilities	AEMBA	Red Pigments
AACA	Power Stations		Ferric Oxide (Hematite)
AACB	Shipyards	AEMC	Trilead Tetroxide (Red Lead)
AAD	Military Facilities	AEMCA	Metallic Pigments
AADA	Communication Centers	AEMCB	Aluminum Powder
AADB	Fortifications		Other Pigments (Color Unknown)
AADC	Launching Sites	AEMD	Mica
AADCA	Anti-Aircraft	AEMDA	Aluminum Silicate
AADD	Marshalling Yards	AEME	Mediums, Thinners, Driers
AADE	Supply Depots		Resin
AAE	Airfields	AEMEA	Oleo
AAF	Railroad	AEMEB	Alkyd
AAFA	Tracks	AEMF	Ester
AAFB	Yards	AEMFA	Xylene
AAG	Roads	AEMFAA	Paper/Cardboard
AAH	Bridges	AEMFAB	Plastic
AAI	Dams	AEMFB	Rubber
AAJ	Docks	AEMFC	Tar
AAK	Personnel	AEN	Tile
AAKA	Clothing	AEO	Varnish
AAKB	Troop Concentrations	AEP	Wood
AAL	Vehicles	AEQ	Radiation Control
AALA	Aircraft	AER	Anti-Reflection Coating
AALB	Armored	AES	Shielding
AALC	Convoys	AET	Temperature Control
AALD	Earth-Moving	AF	Signatures
AALE	Tanks	AFA	
AALF	Trucks	AFB	
AB	Marine	AFC	
ABA	Submarine	AG	
ABB	Surface Vessels		
ABBA	Barges	B	BACKGROUNDS
ABBB	Landing Craft	BA	Atmosphere
AC	Camouflage	BAA	Constituents
AD	Decoys	BAAA	Aerosols
AE	Materials	BAAB	Dust
AEA	Aluminum	BAAC	Fog
AEB	Asphalt	BAAD	Gases
AEC	Brick	BAAE	Haze
AED	Burlap	BAAF	Rain
AEE	Canvas	BAAG	Smog
AEF	Cinder	BAAH	Smoke
AEG	Concrete	BAAI	Snow
AEH	Dirt	BAAJ	Spray
AEI	Galvanized Steel	BAAK	Water Vapor
AEJ	Glass	BAB	Sky
AEK	Gravel	BB	Clouds
AEL	Metal	BBA	Cumulonimbus
AEM	Paint	BBB	Cirrus

BBC	Cirrocumulus	BFHE	Bedrock
BBD	Cirrostratus	BFI	Series
BBE	Alto Cumulus	BFIA	Aguan
BBF	Alto Stratus	BFIB	Aiken
BBG	Cumulus	BFIC	Akron
BBH	Nimbostratus	BFID	Alamance
BBI	Strato Cumulus	BFIE	Albion
BC	Light Conditions	BFIF	Alonso
BCA	Day	BFIG	Barnes
BCB	Sunrise or Sunset	BFIH	Blakely
BCC	Twilight	BFII	Clareville
BCD	Night	BFIJ	Clarion
BCE	Clear	BFIK	Collington
BCF	Overcast	BFIL	Colts Neck
BD	Season	BFIM	Jecatur
BDA	Summer	BFIN	Dublin
BDB	Fall	BFIO	Gooch
BDC	Winter	BFIP	Grady
BDD	Spring	BFIQ	Greenville
BE	Terrain	BFIR	Guthrie
BEA	Flat	BFIS	Hainamanu
BEB	Rolling	BFIT	Hall
BEC	Hilly	BFIU	Hamakua
BED	Mountainous	BFIV	Herradura
BEE	Rural	BFIW	Joplin
BEF	Urban	BFIX	Marias
BF	Soil	BFIY	Marshall
BFA	Cultivated	BFIZ	Matanzas
BFB	Uncultivated	BFJ	Series (continued)
BFC	Coarse Textured	BFJA	Maury
BFCA	Sand	BFJB	Moaula
BFCB	Loamy Sand	BFJC	Naalehu
BFD	Moderately Coarse Textured	BFJD	Onomea
BFDA	Sandy Loam	BFJE	Ookala
BFDB	Fine Sandy Loam	BFJF	Orangeburg
BFE	Medium Textured	BFJG	Oriente
BFEA	Loam	BFJH	Orman
BFEB	Silt Loam	BFJI	Pallman
BFEC	Silt	BFJJ	Penn
BFF	Moderately Fine Textured	BFJK	Pierre
BFFA	Clay Loam	BFJL	Putnam
BFFB	Sandy Clay Loam	BFJM	Quibdo
BFFC	Silty Clay Loam	BFJN	Rubicon
BFG	Fine Textured	BFJO	Ruston
BFGA	Sandy Clay	BFJP	Santa Barbara
BFGB	Silty Clay	BFJQ	Texas Dune
BFGC	Clay	BFJR	Tifton
BFH	Other Constituents	BFJS	Tillman
BFHA	Organic Material	BFJT	Tilsit
BFHB	Gravel (less than 3-in. diameter)	BFJU	Vernon
BFHC	Cobbles (3- to 10-in. diameter)	BFJV	Weld
BFHD	Stones (greater than 10-in. diameter)	BFJW	Windthorst
		BFJX	Yolo
		BFJY	Zanesville
		BG	Vegetation

BGA
 BGAA
 BGAAA
 BGB
 BGBA
 BGBAA
 BGC
 BGCA
 BGCAA
 BGCB
 BGCBA
 BGCC
 BGCCA
 BGCD

 BGCD A
 BGCD B
 BGCD C
 BGCD D
 BGCE
 BGCEA
 BGCF
 BGCF A
 BGCG
 BGCG A
 BGCH
 BGCH A

 BGCI
 BGCI A
 BGCI J
 BGCI J A
 BGCK
 BGCK A
 BGCK B
 BGCL
 BGCL A
 BGCM
 BGCM A
 BGCM B
 BGCM C
 BGCM D
 BGCM E
 BGCM F
 BGCM G
 BGCM H
 BGCM I
 BGCM J
 BGCM K
 BGCM L
 BGCM M
 BGCM N
 BGCM O
 BGCM P
 BGCM N

Herbaceous, Algae Fungi
 Cladoniaceae Family
 Reindeer Moss
 Moss-Liverwort
 Sphagnum Family
 Sphagnum Moss
 Vascular
 Banana Family
 Banana
 Bromeliaceae Family
 Bunch Grass
 Buckwheat Family
 Buckwheat
 Composite Family
 (cf. Ligneous)
 Daisy
 Goldenrod
 Ragweed
 Sunflower
 Convolvulus Family
 Sweet Potatoe
 Crowfoot Family
 Crowfoot
 Duckweed Family
 Duckweed
 Evening-Primrose Family
 Willow Herb
 (cf. Willow Family)
 Fern Family
 Bracken Fern
 Flax Family
 Flax
 Goosefoot Family
 Pigweed
 Sugar Beet
 Gourd Family
 Squash
 Grass Family
 Barley
 Bermuda Grass
 Corn
 Creeping Grass
 Fescue
 Foxtail
 Ilyas
 Millet
 Oats
 Reeds
 Rice
 Rye
 Selin
 Timothy
 Vetch
 Wheat
 Health Family (see also
 Ligneous)

BGCNA
 BGCNB
 BGCO
 BGCOA
 BGCP
 BGCPA
 BGCPB
 BGCCQ
 BGCCQA
 BGCCQB
 BGCR

 BGCRA
 BGCRB
 BGCRC
 BGCRD
 BGCRE
 BGCRF
 BGCRG
 BGCRH
 BGCR I
 BGCS
 BGCSA
 BGCT
 BGCTA
 BGCTB
 BGD
 BGDA
 BGDA A
 BGDB
 BGDBA
 BGDBB
 BGDBC
 BGDC
 BGDC A
 BGDD
 BGDDA
 BGDE
 BGDEA
 BGDF
 BGDF A
 BGDFB
 BGDG

 BGDGA
 BGDGB
 BGDH
 BGDHA
 BGDI
 BGDIA

 BGDIB
 BGDJ
 BGDJA
 BGDK
 BGDKA

European Blueberry
 Heather
 Mallow Family
 Cotton
 Mustard Family
 Cabbage
 Mustard
 Nightshade Family
 Potatoes
 Tomatoes
 Pea (or Pulse) Family
 (see also Ligneous)
 Alfalfa
 Clover
 Coffee Plant
 Lentil
 Lima Bean
 Pea
 Peanut
 Soybean
 String Bean
 Plantain Family
 Plantain
 Sedge Family
 Cotton Grass
 Sedge
 Ligneous
 Arecaceae Family
 Areca Palm
 Beech Family
 Beech
 Chestnut
 Oak
 Bignonia Family
 Catalpa
 Calycanthaceae Family
 Meratia Praecox
 Carduacea Family
 Rabbit Brush
 Cashew Family
 Chinese Pistachio
 Sumach
 Composite Family
 (cf. Herbaceous)
 Sagebrush
 Wormwood
 Dogwood Family
 Dogwood
 Ebony Family
 Ironwood (cf. Hazei
 family)
 Persimmon
 Elm Family
 Elm
 Figwort Family
 Paulowina

BGDL
 BGDLA
 BGDLB
 BGDLG
 BGDLH
 BGDLI
 BGDM
 BGDMA
 BGDN
 BGDNA
 BGDO
 BGDOA
 BGDP
 BGDPA
 BGDPB
 BGDPQ
 BGDQA
 BGDR
 BGDRB
 BGDRD
 BGDS
 BGDSA
 BGDT
 BGDTA
 BGDTB
 BGDTG
 BGDU
 BGDUA
 BGDUV
 BGDVA
 BGDW
 BGDWA
 BGDX
 BGDXA
 BGDXB
 BGDXC
 BGDXD
 BGDXE
 BGDXF
 BGDY
 BGDYA
 BGDZ
 BGDZA
 BGE
 BGEA
 BGEAA
 BGEAB
 BGEAC
 BGEAD
 BGEAE
 BGEAF
 BGEAG

Hazel Family
 Alder
 Birch
 Hazelnut
 Hornbeam
 Ironwood (cf. Ebony Family)
 Heath Family (cf. Herbaceous)
 Mountain Laurel
 Holly Family
 Holly
 Honeysuckle Family
 Viburnum
 Laurel Family
 Laurel
 Sassafras
 Lily Family
 Yucca
 Linden Family
 Basswood
 Linden
 Logania Family
 Privet (Ligustrum)
 Magnolia Family
 Magnolia
 Tulip
 Tulip Poplar
 Maple Family
 Maple
 Mulberry Family
 Rubber
 Olive Family
 Ash
 Pine Family
 Cedar
 Fir
 Juniper
 Larch
 Pine
 Spruce
 Plane-Tree
 Sycamore
 Pea Family (cf. Herbaceous)
 Locust
 Ligneous (continued)
 Rose Family
 Blackberry
 Cherry
 Hawthorn
 Juneberry
 Peach
 Pin Cherry
 Plum
 BGEB
 BGEBA
 BGEC
 BGECB
 BGED
 BGEDA
 BGEE
 BGEEA
 BGEEF
 BGEEFA
 BGEEFB
 BGEEFC
 BGEEFCA
 BGEEFCB
 BGF
 BGFA
 BGFB
 BGFBAB
 BGFBBC
 BGFBBD
 BGFC
 BGFD
 BGFE
 BGFF
 BGG
 BGH
 BH
 BHA
 BHAA
 BHAB
 BHAC
 BHAD
 BHB
 BHBA
 BHBB
 BHBC
 BHBD
 BI
 C
 CA
 CAA
 CAB
 CAC
 CAD
 CAE
 CB
 CC
 CCA
 CD
 CDA
 CDB

Sour Gum Family
 Gum
 Trumpet-Creeper Family
 Calabash
 Vine Family
 Virginia Creeper
 Walnut Family
 Hickory
 Willow Family
 Aspen
 Poplar
 Willow (cf. Evening-Primrose Family)
 Dwarf
 Ground
 Leaf
 Narrow
 Broad
 Coriaceous (Leathery)
 Membranous
 Lower Surface
 Upper Surface
 Young (Spring)
 Mature (Summer)
 Old (Fall)
 Dry
 Bark
 Twig
 Water
 Formations
 Lake
 Puddle
 River
 Sea
 State
 Ice
 Ice and Liquid
 Liquid
 Snow
 Climate
 EQUIPMENT
 Radar
 Coherent
 Non-Coherent
 Pulse
 C-W
 M'TI
 Radiometer
 Spectrograph
 Eastman Kodak
 Spectrometer
 Beckman
 General Electric

CDC	Perkin-Elmer	DFD	Bidirectional
CDD	Interference	DFE	Total (Albedo)
CE	Platform	DG	Scintillation
CEA	Aircraft	DH	Solar Influence
CEB	Balloon	DI	Transmittance
CEC	Ground	DIA	Directional
CED	Laboratory	DIB	Bidirectional
CEE	Shipborne	DJ	Emission
CF	Optical	DJA	Atmosphere
CFA	Ultraviolet	DJB	Emissivity
CFB	Visible	DJC	Emittance
CFC	Infrared	DJD	Blackbody
CFD	Active	DJE	Greybody
CFE	Passive	DJF	Fluorescence
CG	Detectors	DJG	Thermal
CH	Filters	DK	Artificial Sources
CI	Image Tubes	DKA	Arc
CJ	Materials	DKB	Beacon
CK	Evaluation	DKC	Flame
CKA	Noise	DKD	Flare
CL	Reflectometer	DKE	Gas
CM	Polarimeter	DKF	Gas Discharge
		DKG	Globalar
		DKH	Incandescent Lamp
D	RADIATION	DKI	Maser, Laser, Iraser, Uvaser
DA	Pattern	DKJ	Mantle
DAA	Aspect Dependence	DKK	Nernst Glower
DAB	Optical Cross Section	DKL	Nuclear Explosion
DAC	Radar Cross Section (σ)	DKM	Oscillator
DACA	Normalized (σ_0)	DKN	Shock Tube
DB	Attenuation	DKO	Spark
DBA	Absorption	DKP	Vapor Lamp
DBB	Scatter	DL	Natural Sources
DBBA	Backscatter Coefficient (ρ)	DLA	Aurora
DC	Modulation	DLB	Airglow
DD	Polarization	DLC	Lightning
DDA	Radar	DLD	Lunar
DDB	Optical	DLE	Planetary
DDBA	Circular	DLF	Solar
DDBB	Elliptic	DLG	Stellar
DDBC	Linear	DLH	Zodiacal Light
DE	Refraction	DM	Flux
DF	Reflectance	DN	Radiance
DFA	Directional		
DFAA	Specular Included	E	SPECTRA
DFAB	Specular Not Included	EA	Gamma-Rays
DFB	Specular	EB	X-Rays
DFC	Standard	EC	Optical
DFCA	Baryte	ECA	Ultraviolet
DFCB	Flowers of Sulfur	ECAA	Less than 0.1 μ
DFCC	Gypsum	ECAB	0.1-0.2 μ
DFCD	Magnesium Carbonate	ECAC	0.2-0.2 μ
DFCE	Magnesium Oxide	ECAD	0.3-0.4 μ
DFCF	Paper	ECB	Visible (0.4-0.7 μ)
DFCG	Rhodium Mirror		
DFCH	Aluminum Mirror		

ECBA	Chromaticity	FF	Filtering
ECBB	Color	FFA	Spatial
ECBBA	Blue	FFB	Spectral
ECBBB	Green	FG	Measurement
ECBBC	Yellow	FGA	Temperature
ECBBD	Orange	FGB	Time
ECBBE	Red	FGC	Position
ECBBF	Brown	FGD	Range
ECBBG	Field Drab	FGE	Angle
ECBBH	Khaki	FGF	Velocity
ECBBI	Olive Drab	FGG	Acceleration
ECBBJ	White	FH	Calibration
ECBBK	Grey	FI	Homing
ECBBL	Black	FJ	Pattern Recognition
ECC	Infrared	G	ANALYSIS
ECCA	0.7-1.5 μ	GA	Mathematical
ECCB	1.5-3.0 μ	GAA	Model
ECCC	3-5 μ	GB	Statistical
ECCD	5-8 μ	GBA	Distribution
ECCE	8-15 μ	GBAA	Gaussian
ECCF	15-50 μ	GBB	Process
ECCG	50-100 μ	GBBA	Ergodic
ECCH	100-1000 μ	GBBB	Stationary
ECCI	1.4- μ band	GBBC	Nonstationary
ECCJ	1.9- μ band	GC	Information Processing
ECCK	2.2- μ band	GCA	Digital
ECCL	2.7- μ band	GD	Correlation
ECCM	4.3- μ band	GDA	Auto-
ECCN	6.3- μ band	GDB	Cross-
ECCO	9.6- μ band	GE	One-Dimensional
ECCP	Other	GF	Two-Dimensional
ECD	Line	GG	Linear
ED	Radio Frequency	H	ACOUSTICS
EDA	EHF (30-300 kMc)	HA	Attenuation
EDB	SHF (3-30 kMc)	HAA	Absorption
EDC	UHF (0.3-3 kMc)	HAB	Scatter
EDD	VHF (30-300 Mc)	HABA	Backscatter Coefficient (ρ)
EDE	HF (3-30 Mc)	HB	Modulation
EDF	MF (0.3-3 Mc)	HC	Refraction
EDG	LF (30-300 kc)	HD	Reflectance
EDH	VLF (3-30 kc)	HE	Transmission
F	OPERATIONS	HF	Emission
FA	Detection	HG	Artificial Sources
FB	Discrimination	HH	Natural Sources
FC	Reconnaissance	HI	Flux
FD	Surveillance	HJ	Diffraction
FE	Imaging	HK	Frequency Spectrum
FEA	Photography	HL	Correlation
FEB	Scanning		
FEC	Contrast		
FED	Resolution		
FEE	Display		

TABLE II. OPTICAL DATA PARAMETERS

Unclassified

DATE	Date of measurement (day, month, and year)
TIME	Time of measurement (24-hour clock)
LAT	Latitude of measurement (field measurement) or location at which specimen was collected (laboratory measurement)
LONG	See LAT
ALT	Altitude of experimental platform (thousands of feet)
RANGE	Slant range (thousands of feet)
DAYS RE	Number of days sample has been removed from its natural environment
IN*	Incidence angle from normal (degrees)
IAZ*	Azimuth of incident radiation (degrees)
CN**	Collection angle from normal (degrees)
CAZ**	Azimuth of collection angle (degrees)
IRR	Type of target irradiation coded as follows: A. Sun B. Moon C. Skylight (extended source) D. Laser E. Other artificial point sources
OBST	Obstructions in the air that prevent a clear view of the target, coded as follows: A. Smoke B. Haze C. Dust D. Sand E. Fog F. Drizzle G. Rain H. Snow I. Hail
TTEMP	Temperature of target or measured object (°K)
WIND SP	Average wind speed (mph)
WIND DI	Wind direction
CLD	Total cloud cover, coded as follows: A. 0 - 0.1 B. 0.2 - 0.5 C. 0.6 - 0.8 D. 0.9 - 1.0
VIS	Visibility (miles)
TEMP	Temperature of environment (°F)
DEW PT	Dew point temperature (°F)
N AVE	Number of curves or measurements that have been averaged to make up this curve

*These angles are defined only if the major portion of radiation incident on the target comes from a point source, e.g., the sun (see fig. 8).

**These angles are defined when the target is observed from one direction (see fig. 8).

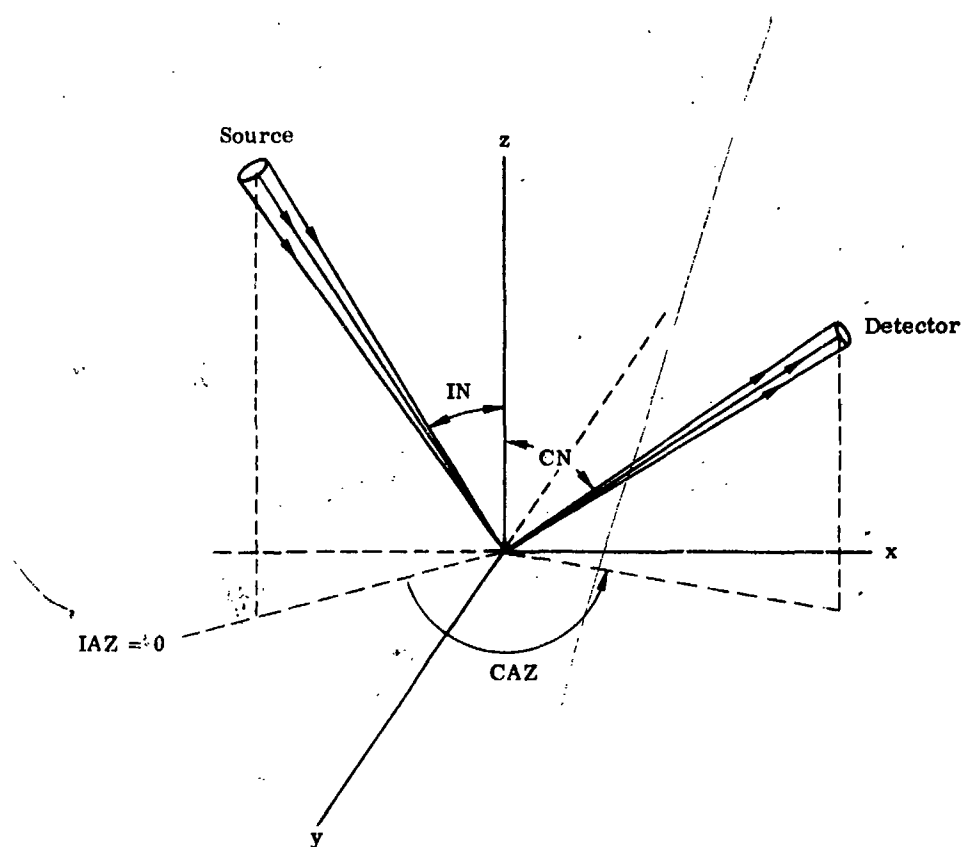


FIGURE 8. GEOMETRY USED IN RECORDING PARAMETER INFORMATION
Unclassified

AAKA
TARGET MATERIALS
Clothing

AKA 1

The graph displays the reflectance characteristics of a thin film of ZnO on glass. The x-axis represents the wavelength in microns, ranging from 0.2 to 1.5. The y-axis represents the percent reflectance, ranging from 0 to 100. The curve shows a sharp dip in reflectance at approximately 0.3 microns, reaching a minimum of about 10%. A broad peak in reflectance is observed around 0.4 microns, reaching a maximum of approximately 85%. The reflectance remains relatively stable at about 80% for wavelengths between 0.5 and 1.0 microns, and then slightly decreases to about 75% at 1.5 microns.

Wavelength (microns)	Percent Reflectance
0.2	80
0.3	10
0.4	85
0.5	80
0.6	80
0.7	80
0.8	80
0.9	80
1.0	80
1.1	78
1.2	78
1.3	78
1.4	78
1.5	75

The graph plots Percent Absorbance (Y-axis, 0 to 120) against Wavelength in microns (X-axis, 0.2 to 1.5). The curve shows a sharp peak at approximately 0.25 microns (absorbance ~115) and a broad absorption band between 0.5 and 1.0 microns, with a local maximum around 0.7 microns (absorbance ~25). Absorbance is near zero for wavelengths above 1.0 microns.

Wavelength (microns)	Percent Absorbance
0.2	0
0.25	115
0.3	10
0.4	5
0.5	10
0.6	15
0.7	25
0.8	15
0.9	10
1.0	5
1.1	5
1.2	5
1.3	5
1.4	5
1.5	5

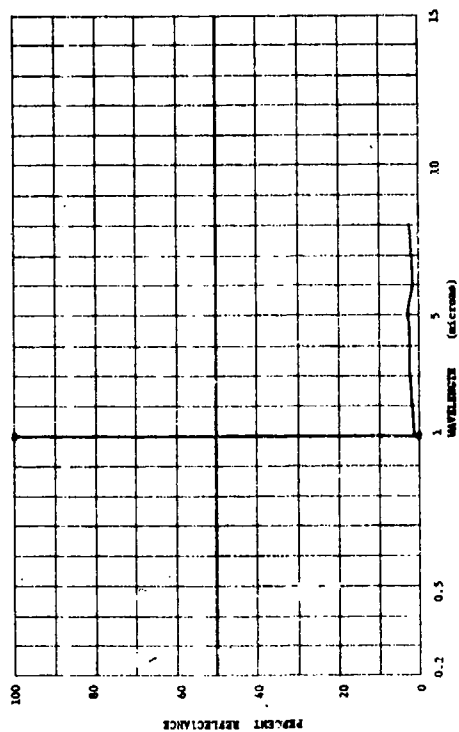
CONFIDENTIAL

AKA 2

• B13501-075 Flat Collar: Duck, Olive Drab, Coarse Cloth Weave. (CONFIDENTIAL)

SUBJECT CODES	
ANXA	2C1911
CDC	C1D
DEG	DPA4
ECCA	ECCB
ECCC	ECCD

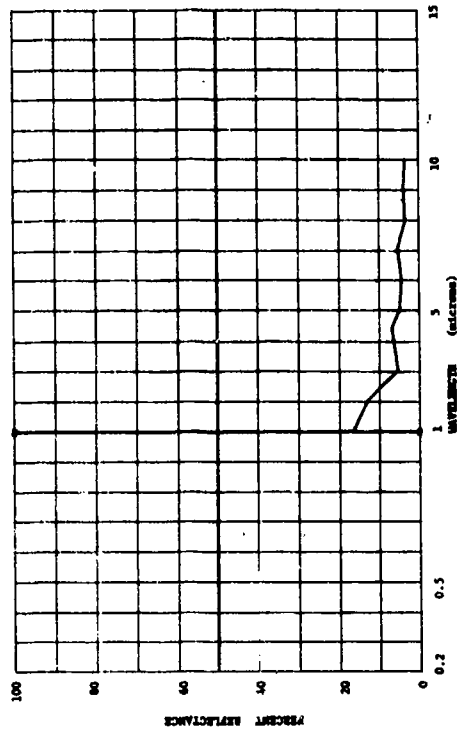
PARAMETER INFORMATION		LAT		LONG		ALT		RANGE	
DATE	SS	TIME		CH		CLD		TRN	S
DAYS	RE	TH		WIND	DI			VIS	
ORST		TIME		W	AVE				
TIME		DD	PT						



• 813501-077
Dailers Fabric, Wool Elastane, Drab, Medium Cloth Weave. (CONFIDENTIAL.)

[illegible]

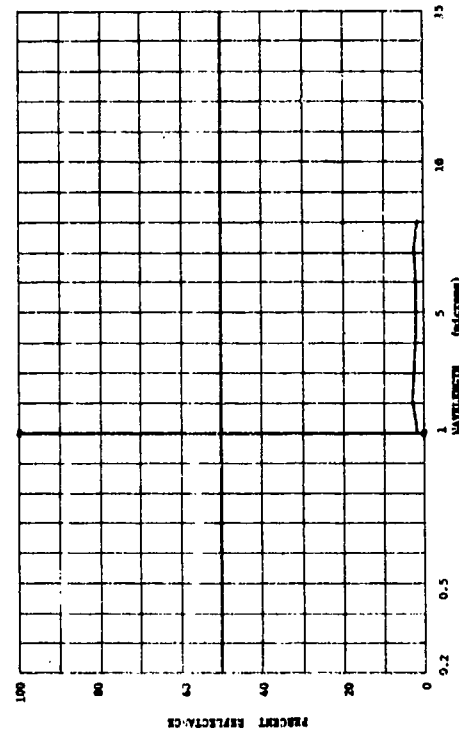
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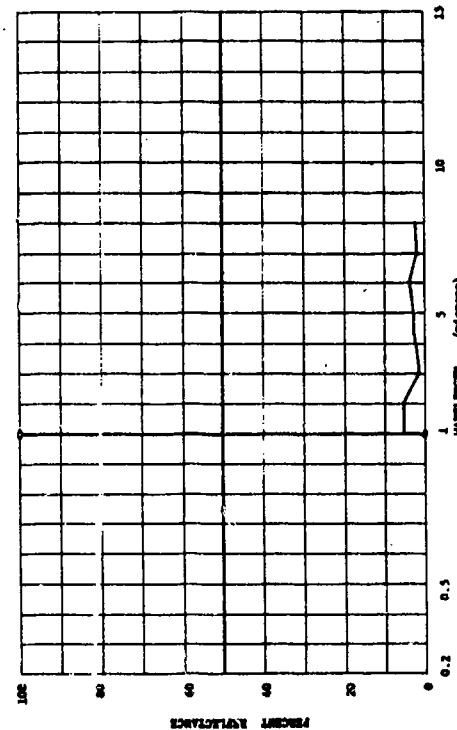
113501-074 Cotton Deck, Olive Drab, Coarse Cloth Weave. (CONFIDENTIAL)

PRODUCT CODES

	PARAMETER INFORMATION	LAT=	LONG=	ALT=	RANGE=
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DAYS 12=	12=	WIND SP=	WIND DIR=	CLE=	VIS=
QST=	TIME=	DAY=			
TIME=	DAY PT=				

[illegible]

PROJECT CODES	PROJECT	TRAIL	DATE	TIME	LOCATION
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1003	1003	1003	1003	1003	1003
1004	1004	1004	1004	1004	1004
1005	1005	1005	1005	1005	1005
1006	1006	1006	1006	1006	1006
1007	1007	1007	1007	1007	1007
1008	1008	1008	1008	1008	1008
1009	1009	1009	1009	1009	1009
1010	1010	1010	1010	1010	1010
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1013	1013	1013	1013	1013	1013
1014	1014	1014	1014	1014	1014
1015	1015	1015	1015	1015	1015
1016	1016	1016	1016	1016	1016
1017	1017	1017	1017	1017	1017
1018	1018	1018	1018	1018	1018
1019	1019	1019	1019	1019	1019
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1024	1024	1024	1024	1024	1024
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1059	1059	1059	1059	1059	1059
106					

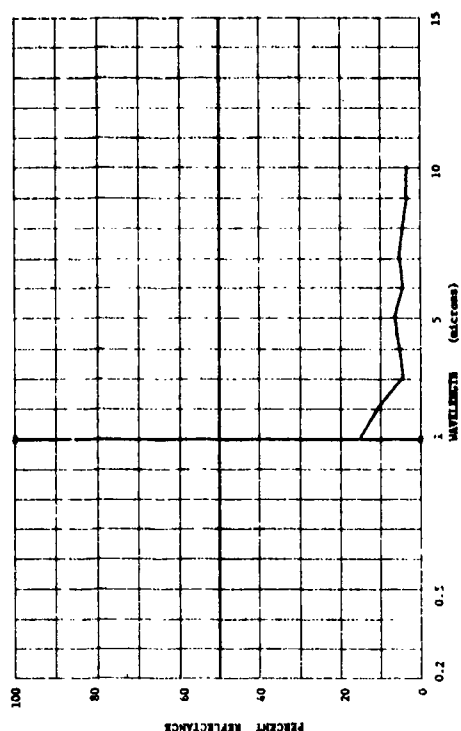
[illegible]

CONFIDENTIAL

Uniform Fabric, Wool Serge, Blue, Medium Cloth Weave. (CONFIDENTIAL)

SUBJECT CODES	ICBMA
AKA	
LOCZ	

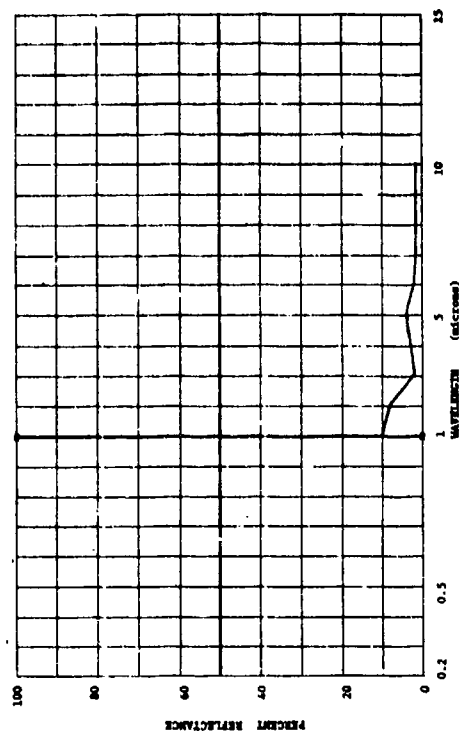
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DAYS RE=	1H
OBSI=	TIDE=
TIDE=	UTMO SP=
	# AVE= 1
LAT=	
LAZ=	
LONG=	
CN=	UTMO DI=
ALT=	
IRIS= X	
VLS=	
RANGE=	



Uniform Fabric, Worsted Tropical Khaki, Medium Cloth Weave. (CONFIDENTIAL)

SUBJECT CODES	PC
AKA	PC
FOI	PC

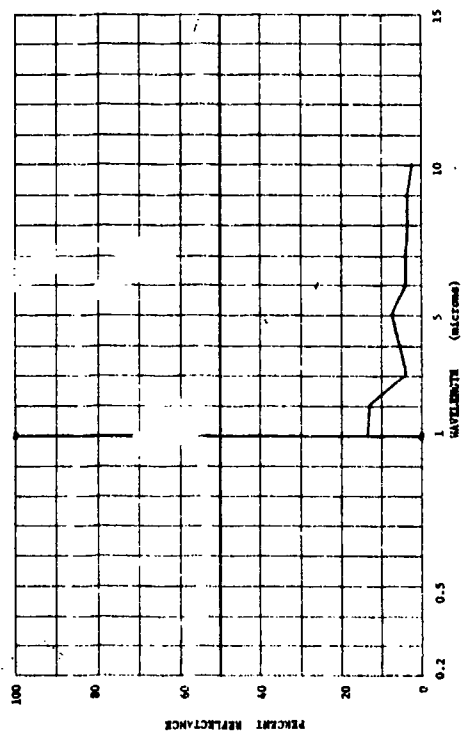
PARAMETER INFORMATION					
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DAYS RE=		TH=		LON=	TR=
OBS=		TIM=		CH=	CAL=
TIM=		END PT=		VWD DI=	CLS=
				N AVG=	VLC=



Uniform Fabric, Wool Flannel, Olive Drab, Medium Cloth Weave. (CONFIDENTIAL)

SUBJECT CODES	DATA	LC#s	REF
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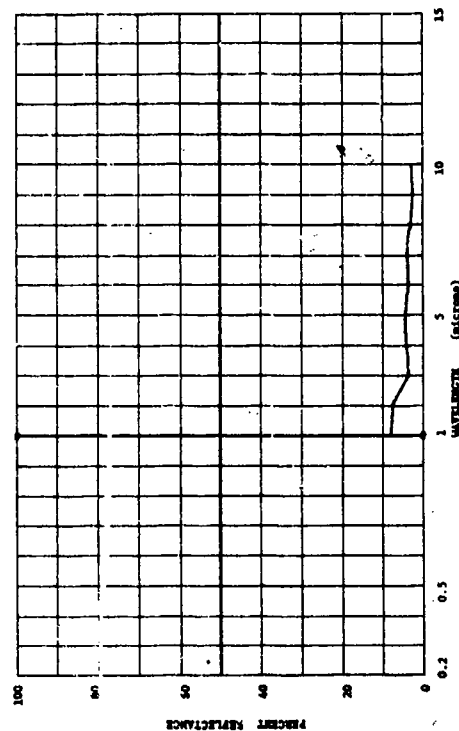
PARAMETER INFORMATION					
DATE=	TIME=	LAT=	LONG=	ALT=	RANGE=
HRS	MIN	N	E	M	FT
DAY	SEC	DIG	DIG	DIG	DIG
MO	FRA	WIND SP	WIND DIR	CLOUDS	VIS-
YEAR	DEC	MPH	DEG	%	MI
		Avg			
07-18-97	00:00	39.000	-105.000	1000	1000
07-18-97	00:05	39.000	-105.000	1000	1000
07-18-97	00:10	39.000	-105.000	1000	1000
07-18-97	00:15	39.000	-105.000	1000	1000
07-18-97	00:20	39.000	-105.000	1000	1000
07-18-97	00:25	39.000	-105.000	1000	1000
07-18-97	00:30	39.000	-105.000	1000	1000
07-18-97	00:35	39.000	-105.000	1000	1000
07-18-97	00:40	39.000	-105.000	1000	1000
07-18-97	00:45	39.000	-105.000	1000	1000
07-18-97	00:50	39.000	-105.000	1000	1000
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07-18-97	01:30	39.000	-105.000	1000	1000
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07-18-97	04:35	39.000	-105.000	1000	1000
07-18-97	04:40				



Uniform Fabric: Cotton Twill Khaki. Medium Cloth Weave. (CONFIDENTIAL)

SUBJECT CODES	AAIA	ECAS	FOCI

PARAMETER INFORMATION		RANGES	
BATH=	SS	LOW=	ALT=
DAYS=	RD	CH=	CAS=
OST=	TIME	WIND DI=	CLD=
TIME=	DDO FT=	WIND SP=	VIS=
		W AVE=	



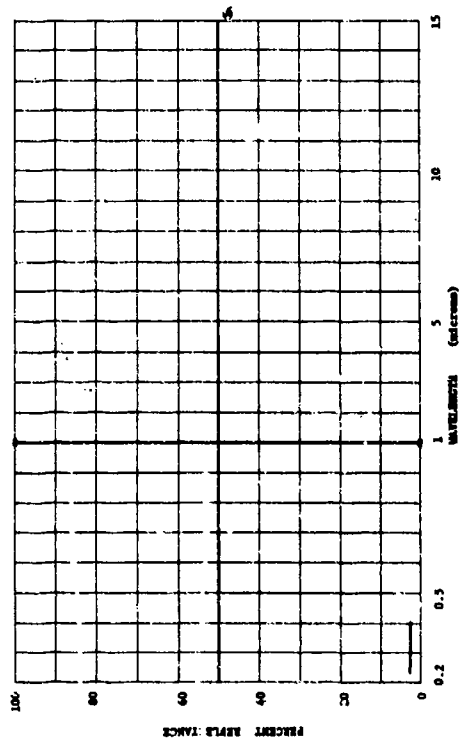
CONFIDENTIAL

AKA :

• H1:004-007 Black Clack. (CONFIDENTIAL)

[illegible]

PARAMETER INFORMATION		RANGES	
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DAYS=	16	TIME=	CAL=
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			WIND SP=
			W AVG= 1



CONFIDENTIAL

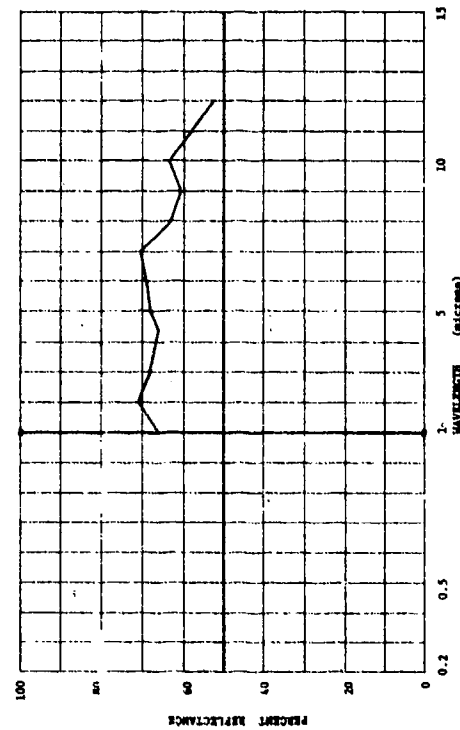
AEA
TARGET MATERIALS
Aluminum

AFA 1

• BJ3501-045

SUBJECT CODES	CTD	DFAS	DMC	ECCL	ECCB	EDCD	EDCE
ALA							
CDC							

PARAMETER INFORMATION	
DAYS=	55
DATE=	TIME=
DAYS BE-	LR=
COST=	TIME=
WAGE=	DEN ST=
LAT=	ALT=
LNG=	CAZ=
CR=	CLD=
WIND DI=	RANGE=
WIND SP=	IRB= E
VTE= A	VIS=



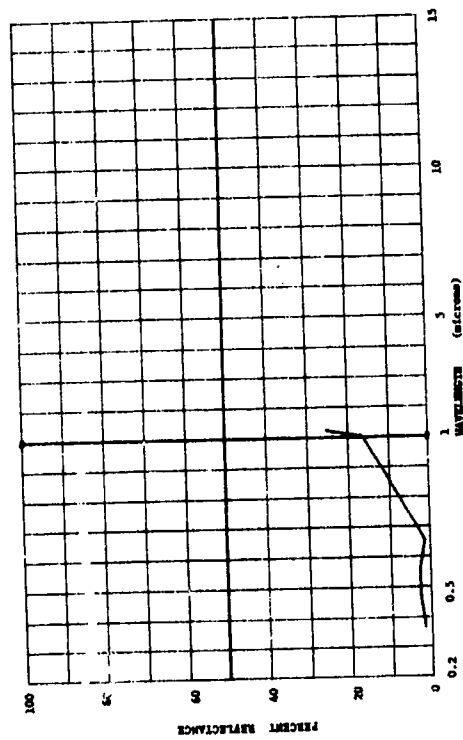
SECRET

AEB
TARGET MATERIALS
Asphalt

SECRET

AEB 1

• E. 3946-008
Asphalt, Smooth, Dry. (SECRET)

[illegible][illegible]

SECRET

AEC
TARGET MATERIALS
Brick

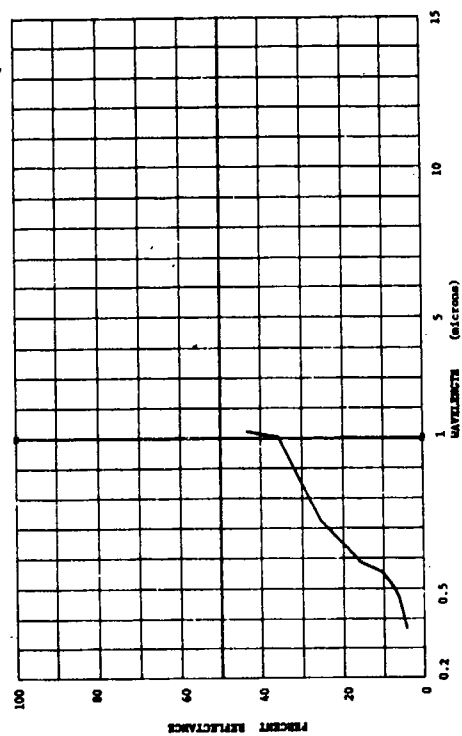
SECRET

AEC 1

• D13946-001
Light Red Brick, Dry. (SECRET)

SUBJECT CODES	ABC	ECNR	CD	DPA	DPC	ECAD	ECB	EOCA
1								
2								
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73								

PARAMETER INFORMATION				PARAMETER INFORMATION			
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TIME=	TIME=	TIME=	TIME=	N AVG= 1			



SECRET

AEG
TARGET MATERIALS
Concrete

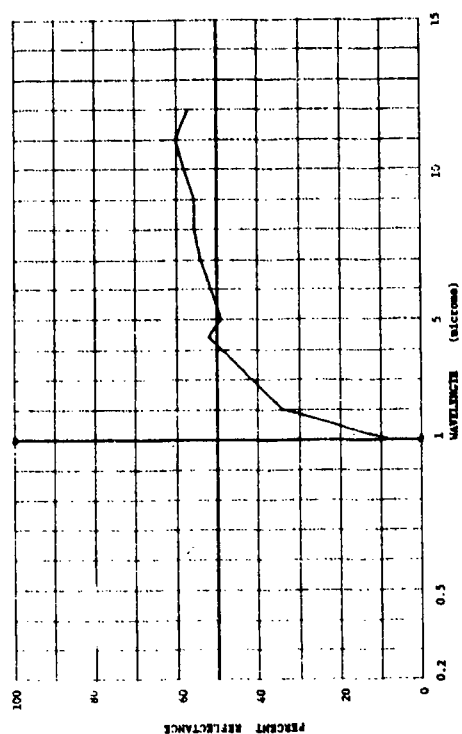
AEH
TARGET MATERIALS
Dirt

AEI
TARGET MATERIALS
Galvanized Steel

AZI 1

SUBJECT CODES	AEI	CDC
000000		
000001		
000002		
000003		
000004		
000005		
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000098		
000099		

PARAMETER INFORMATION		LAT=	LONG=	ALT=	RANGE=
DATE=	SS	LAT=	CN	CAS=	IR= E
DAYS RE=	14	LAT=	WIND DT=	CAS=	VIS=
NETS=	TIDR=	WIND SP=			
TEMP=	DEM FT=	A AVE= 1			



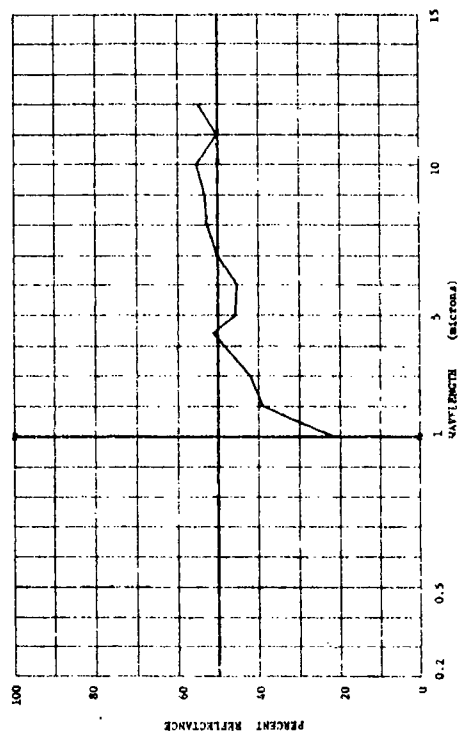
CONFIDENTIAL

AEL
TARGET MATERIALS
Metal

2.2501-042 Stainless Steel Polished Silver, Specular. (CONFIDENTIAL)

SUBJECT CODES	CED	JFAA	DNG	ECCA	ECCB	ECCC	ECCD	ECCE
APL	000							
CON								

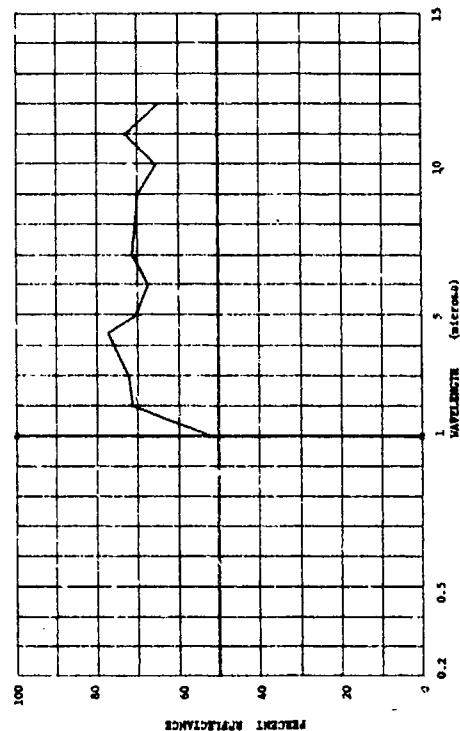
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DATE=	SS	TIME=		ALT=		IRB=	E
IN YR=	LD=			CAS=		VIS=	
ONST=		TEMP=		CLD=			
200=		WIND SP=		WIND DI=			
		WAVE PT=					
		WAVE L=					



Chromium Plate, Silver, On Mild Steel, Specular. (CONFIDENTIAL)

SUBJECT CODES	ATL	CDC	CED	DPAA	DMG	EGCA	EGCS	ECCC	ECED	ECCE
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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53										
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56										
57										
58										
59										
60										
61										
62										

PARAMETER INFORMATION			
DATE=	55	TIME=	
DAYS BE=	14=	LAT=	
TIME=		LON=	
TIME=		CAL=	
TIME=		CID=	
TIME=		WIND DT=	
TIME=		WAVE 1=	
TIME=		WAVE 2=	
TIME=		WAVE 3=	
TIME=		WAVE 4=	
TIME=		WAVE 5=	
TIME=		WAVE 6=	
TIME=		WAVE 7=	
TIME=		WAVE 8=	
TIME=		WAVE 9=	
TIME=		WAVE 10=	
TIME=		WAVE 11=	
TIME=		WAVE 12=	
TIME=		WAVE 13=	
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TIME=		WAVE 15=	
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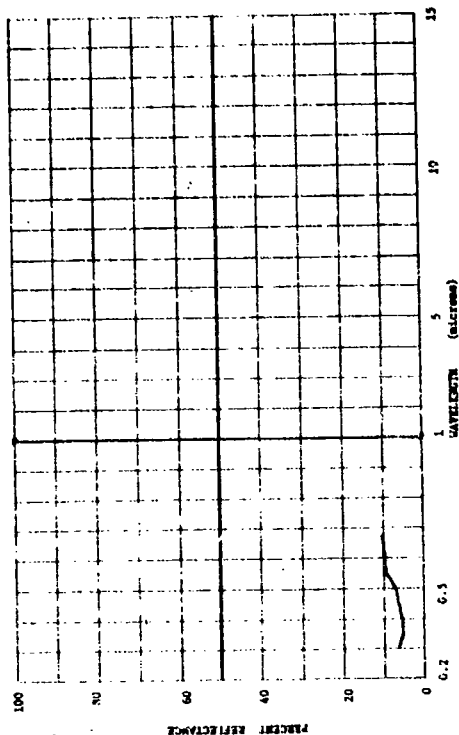


CONFIDENTIAL

REL 3

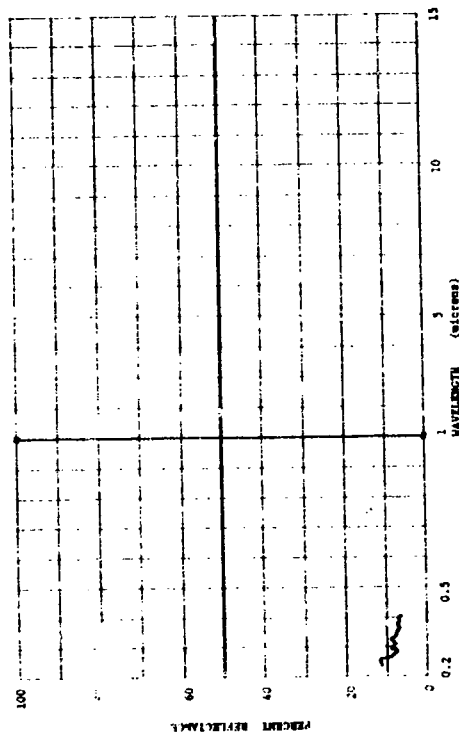
• 814004-039 Rusty Iron. (CONFIDENTIAL)

SUBJECT CODES
ALL CD CUD DPA DPCD DK SCAD SZC
PARAMETER INFORMATION
DATE 04 TIME
RUST 3a IN
DIST 10000
TEMP 100
LAT 10
LON 10
WIND SP 10
WIND DIR 10
S AVE 1
RANGE 10
IR 10
VIS 10
ALT 10
CAS 10
CL 10



• 814004-003 Rusty Iron. (CONFIDENTIAL)

SUBJECT CODES
ALL CUC DPA DPCD DK SCAC SZC
PARAMETER INFORMATION
DATE 04 TIME
RUST 3a IN
DIST 10000
TEMP 100
LAT 10
LON 10
WIND SP 10
WIND DIR 10
S AVE 1
RANGE 10
IR 10
VIS 10
ALT 10
CAS 10
CL 10



CONFIDENTIAL

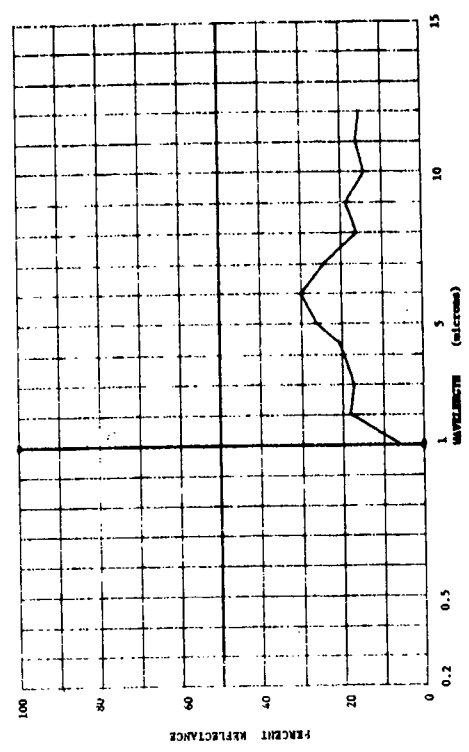
AEM
TARGET MATERIALS
Paint

CONFIDENTIAL

ARM 1

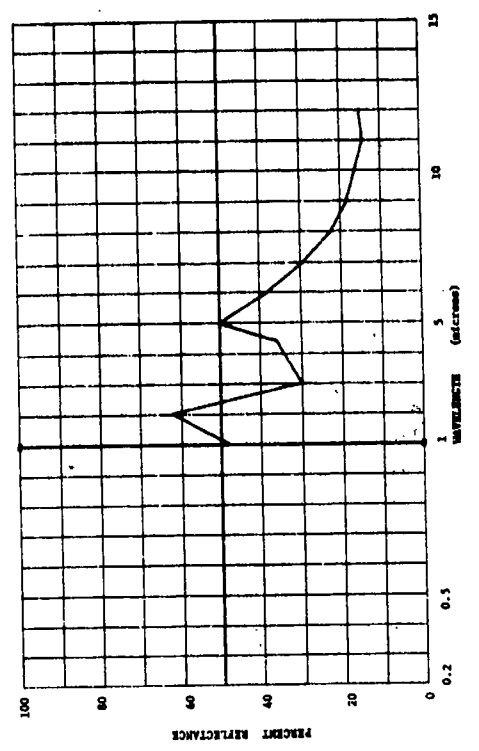
* B13501-016 Flat Zapon Lacquer, Black, On Mild Steel, Flat. (CONFIDENTIAL)

SUBJECT CODES
ADN ECRBL AEL CDC DPAF DMG ECCA ECCR ECCO
ECCD ECCC
PARAMETER INFORMATION
DATE- 55 TIME-
DAYS RE- 11-11-55
OBS- 11-11-55
TIME- 11-11-55
LAT- LONG-
TAX- CR- ALT-
UTM SP- UTM DI-
UTM E-
UTM VIS-
UTM E-
UTM VIS-



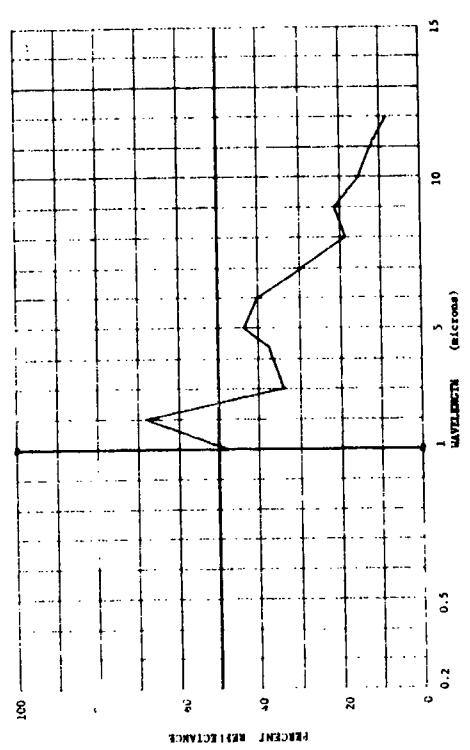
* B13501-036 Same as B13501-016, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADN ECRBL AEL CDC DPAF DMG ECCA ECCR ECCO
ECCD ECCC
PARAMETER INFORMATION
DATE- 55 TIME-
DAYS RE- 11-11-55
OBS- 11-11-55
TIME- 11-11-55
LAT- LONG-
TAX- CR- ALT-
UTM SP- UTM DI-
UTM E-
UTM VIS-
UTM E-
UTM VIS-



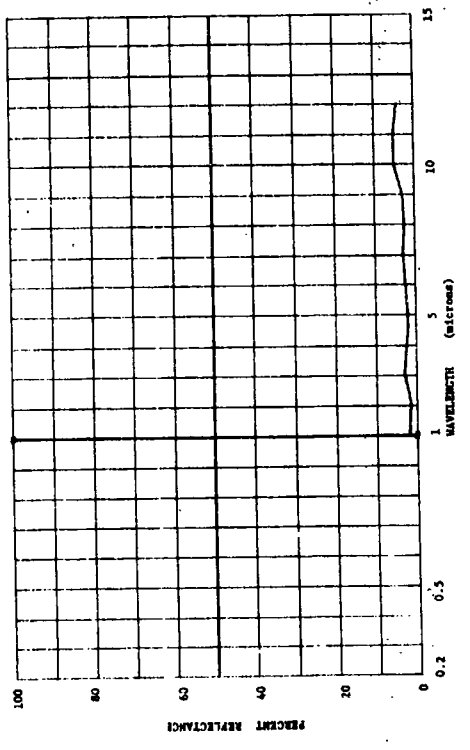
* B13501-013 Zinc Chromate Lacquer, Yellow, On Mild Steel, Full Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADN ECRBL AEL CDC DPAF DMG ECCA ECCR ECCO
ECCD ECCC
PARAMETER INFORMATION
DATE- 55 TIME-
DAYS RE- 11-11-55
OBS- 11-11-55
TIME- 11-11-55
LAT- LONG-
TAX- CR- ALT-
UTM SP- UTM DI-
UTM E-
UTM VIS-
UTM E-
UTM VIS-



* B13501-017 Same as B13501-013, On Mild Steel, Flat. (CONFIDENTIAL)

SUBJECT CODES
ADN ECRBL AEL CDC DPAF DMG ECCA ECCR ECCO
ECCD ECCC
PARAMETER INFORMATION
DATE- 55 TIME-
DAYS RE- 11-11-55
OBS- 11-11-55
TIME- 11-11-55
LAT- LONG-
TAX- CR- ALT-
UTM SP- UTM DI-
UTM E-
UTM VIS-
UTM E-
UTM VIS-



CONFIDENTIAL

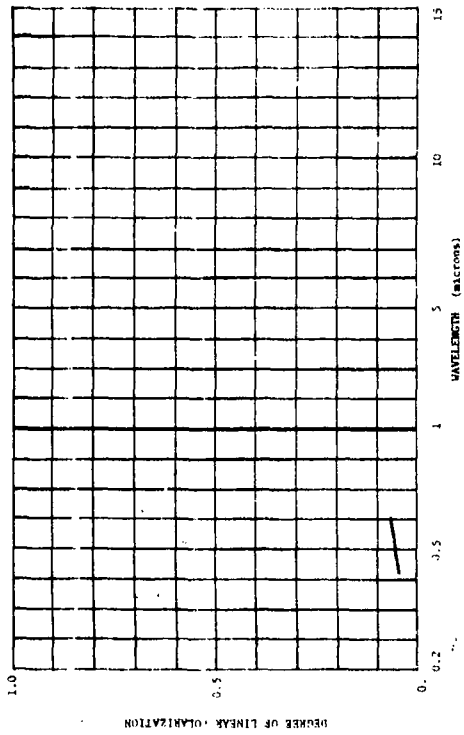
CONFIDENTIAL

AEM 2

*B1384-006 Dirty Gray Truck Top. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK AEL ALF CEC CN DMC DLF ECH

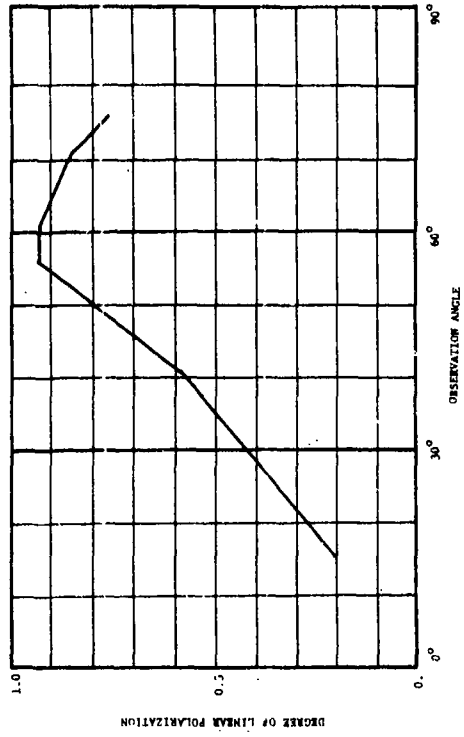
PARAMETER INFORMATION
DATE= 10-60
TIME= 14-00
LAT= 34-00
LONG= 118-00
WIND SP= 10
WIND DIR= 180
H AVE= 1
RANGE= 180
ELEV= 100
VIS= 10



*B1384-020 Flat Gray Paint Surfaces. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK AEL ALF CEC CN DMC DLF ECH

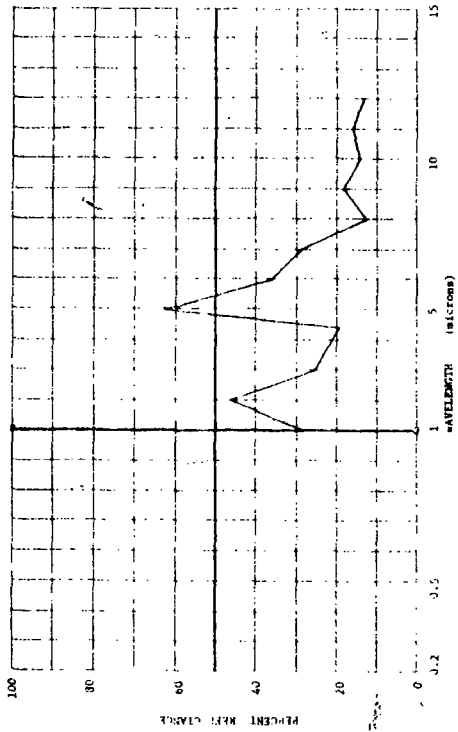
PARAMETER INFORMATION
DATE= 10-60
TIME= 14-00
LAT= 34-00
LONG= 118-00
WIND SP= 10
WIND DIR= 180
H AVE= 1
RANGE= 180
ELEV= 100
VIS= 10



*B13501-037 Enamel, Gray, on Mild Steel, Full Gloss. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK AEL ALF CEC CN DMC DLF ECH

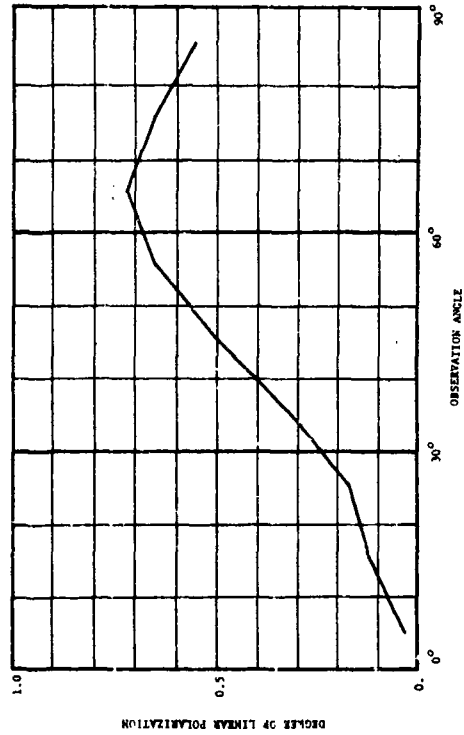
PARAMETER INFORMATION
DATE= 10-60
TIME= 14-00
LAT= 34-00
LONG= 118-00
WIND SP= 10
WIND DIR= 180
H AVE= 1
RANGE= 180
ELEV= 100
VIS= 10



*B1384-019 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK AEL ALF CEC CN DMC DLF ECH

PARAMETER INFORMATION
DATE= 10-60
TIME= 14-00
LAT= 34-00
LONG= 118-00
WIND SP= 10
WIND DIR= 180
H AVE= 1
RANGE= 180
ELEV= 100
VIS= 10



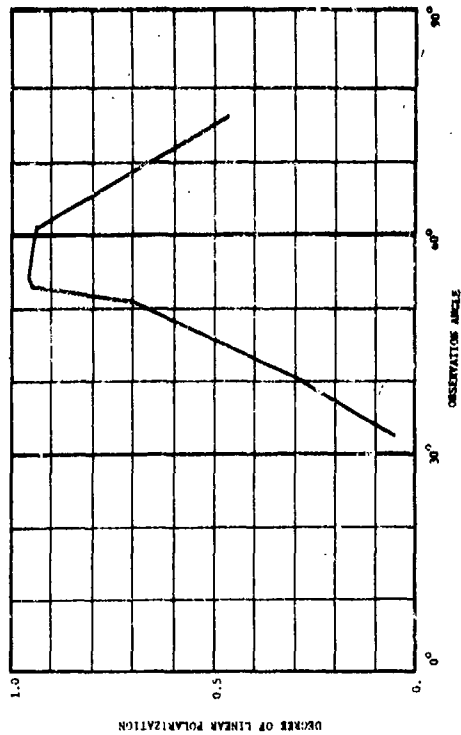
CONFIDENTIAL

CONFIDENTIAL

AEM 3

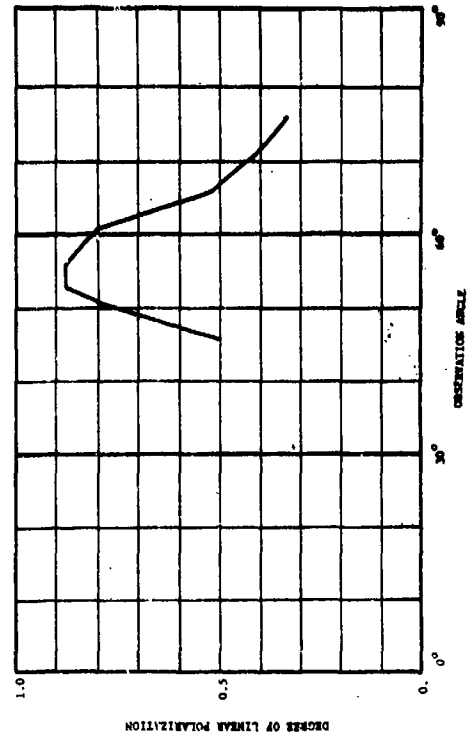
*B1384-022 Flat Gray Paint Surfaces. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK CLO CN DMC DFD DK ECR
PARAMETER INFORMATION
DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= 1M-60 CAZ= 180
OBS= 1M-60 WIND SP= WIND DI= 180
TEMP= 1M-60 WIND DI= 180
TEMP= 1M-60 WIND DI= 180



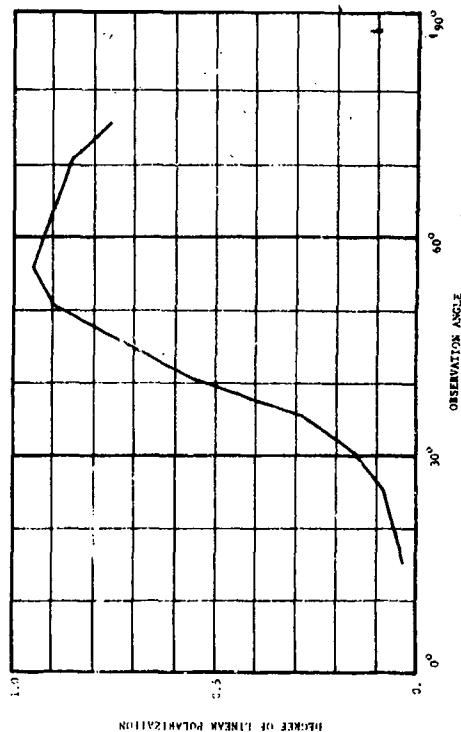
*B1384-024 Flat Gray Paint Surfaces. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK CLO CN DMC DFD DK ECR
PARAMETER INFORMATION
DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= 1M-60 CAZ= 180
OBS= 1M-60 WIND SP= WIND DI= 180
TEMP= 1M-60 WIND DI= 180
TEMP= 1M-60 WIND DI= 180



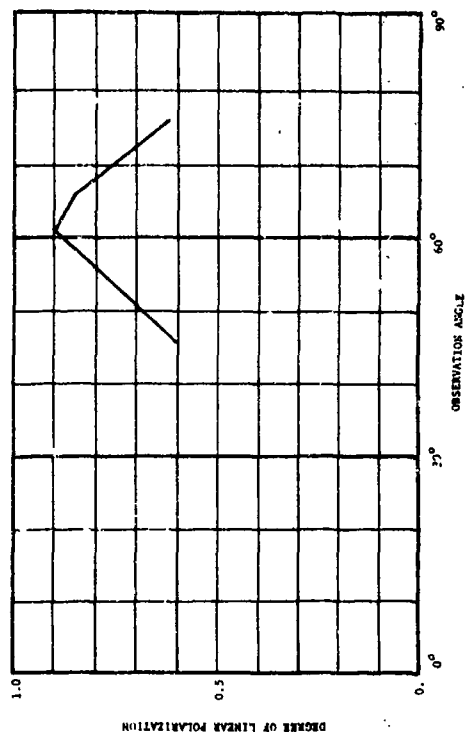
*B1384-021 Flat Gray Paint Surfaces. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK CLO CN DMC DFD DK ECR
PARAMETER INFORMATION
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DAYS RE= 1M-60 CAZ= 180
OBS= 1M-60 WIND SP= WIND DI= 180
TEMP= 1M-60 WIND DI= 180
TEMP= 1M-60 WIND DI= 180



*B1384-023 Flat Gray Paint Surfaces. (CONFIDENTIAL)

SUBJECT CODES
AEM ECRK CLO CN DMC DFD DK ECR
PARAMETER INFORMATION
DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= 1M-60 CAZ= 180
OBS= 1M-60 WIND SP= WIND DI= 180
TEMP= 1M-60 WIND DI= 180
TEMP= 1M-60 WIND DI= 180



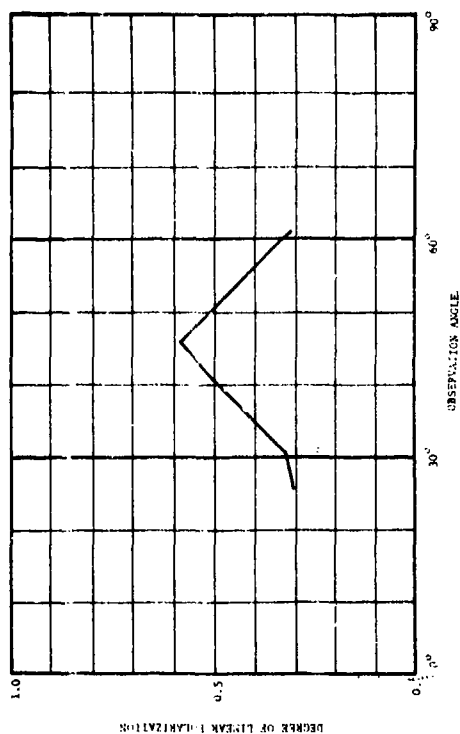
CONFIDENTIAL

• B13864-050 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

PARAMETER INFORMATION	
DATE=	TIME=
DAYS RE=	IN= 30
ONST=	TEMP=
TEMP=	DEM PT=

ALT=	RANGE=
CAZ=	TRR= E
CLD=	VIS=

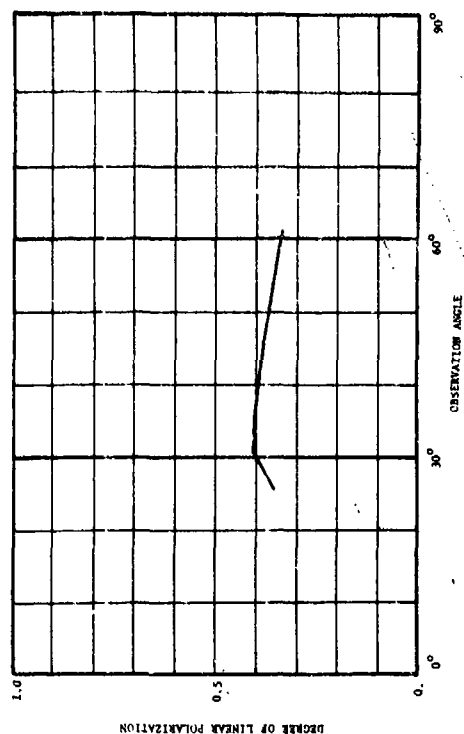


Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

PARAMETER INFORMATION			
DATE=	TIME=		
DAYS RE=	MS=30		
ORST=	TEMP=		
TEMP=	DEM PT		

ALT=	RANGE=
CAZ=	IRR=
CLD=	VIS=



• 223864--049 Flat Gray Paint. (CONFIDENTIAL)

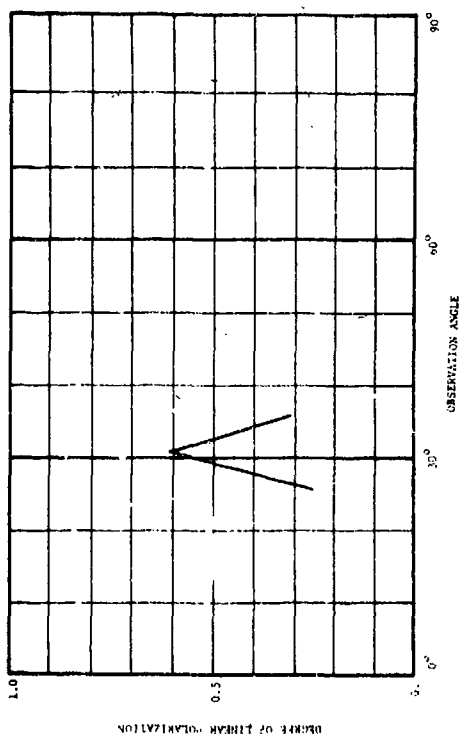
SUBJECT CODES

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PARAMETER INFORMATION
DATE=          TIME=
DAYS RE=       IN= 30
OBS=          TIEMP=
TEMP=         DEN PI=

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ALT=	RANGE=
CAZ=	IRR= E
CID=	VIS=

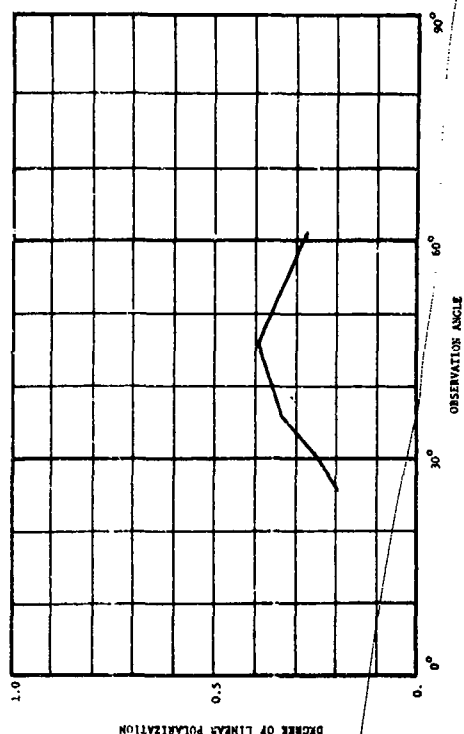


FD-302 (Rev. 4-15-64)

SUBJECT CODES

PARAMETER INFORMATION			
DATE=	TIME=		
DAYS RE=	IN=	30	
COST=	TEMP=		
REQ=	DEN PT=		

ALT=	RANGE=
CAZ=	ERR= E
CUD=	VIS=



CONFIDENTIAL

ARM 6

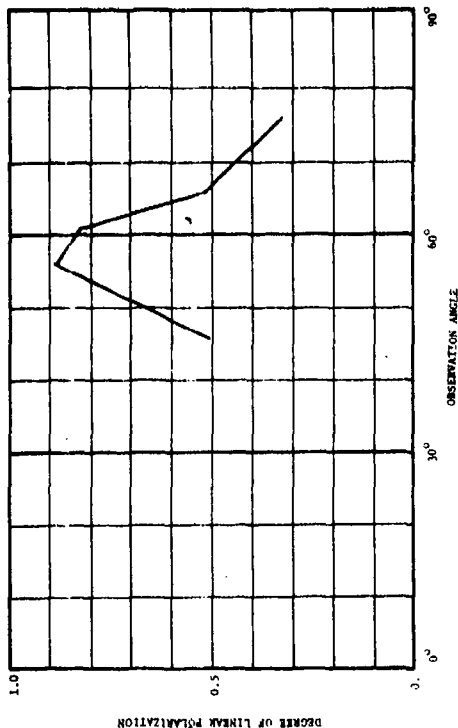
*81384-058 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECHM CED CM DDMC DFD DK EGB

PARAMETER INFORMATION

DATE 64 TIME 12-40
DAYS 00 HRS 00 MIN 00 SEC
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1



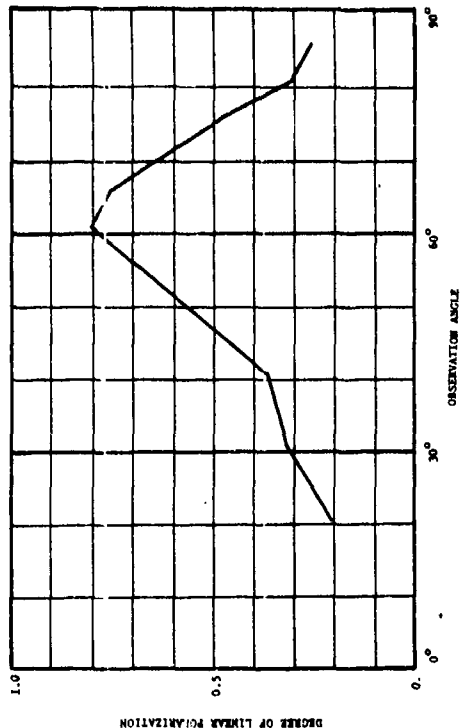
*81384-060 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECHM CED CM DDMC DFD DK EGB

PARAMETER INFORMATION

DATE 64 TIME 12-40
DAYS 00 HRS 00 MIN 00 SEC
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1



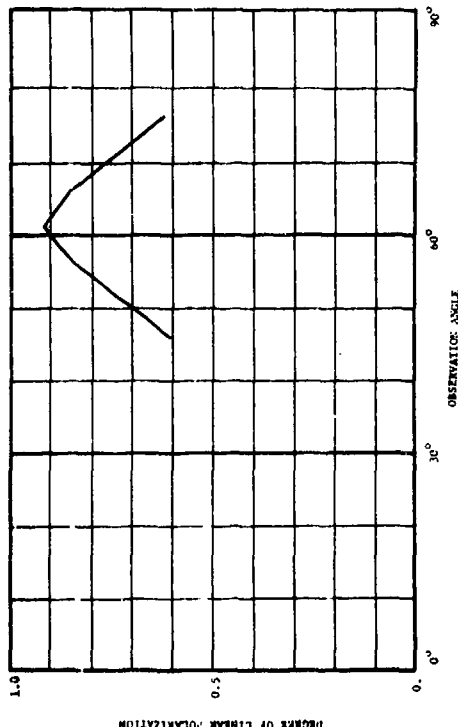
*81384-057 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECHM CED CM DDMC DFD DK EGB

PARAMETER INFORMATION

DATE 64 TIME 12-40
DAYS 00 HRS 00 MIN 00 SEC
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1



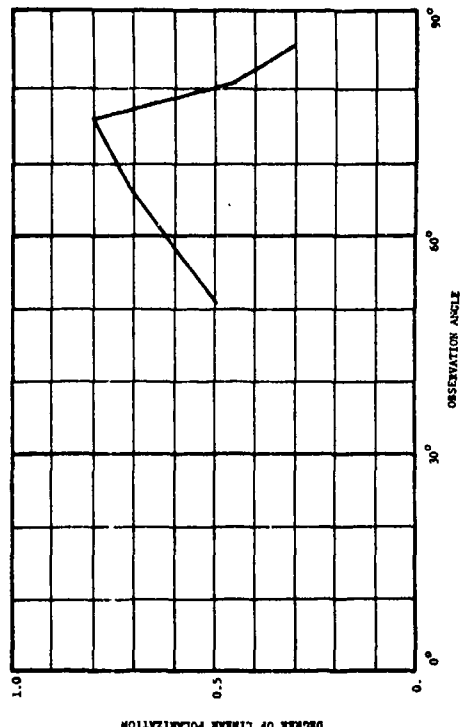
*81384-059 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECHM CED CM DDMC DFD DK EGB

PARAMETER INFORMATION

DATE 64 TIME 12-40
DAYS 00 HRS 00 MIN 00 SEC
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1
LONG 180 ALT 180
LAT 0 CLD 180
WIND DIR 0 WIND SP 0
OBS 1 DEM PT 1
TEMP 1



CONFIDENTIAL

CONFIDENTIAL

ARM 7

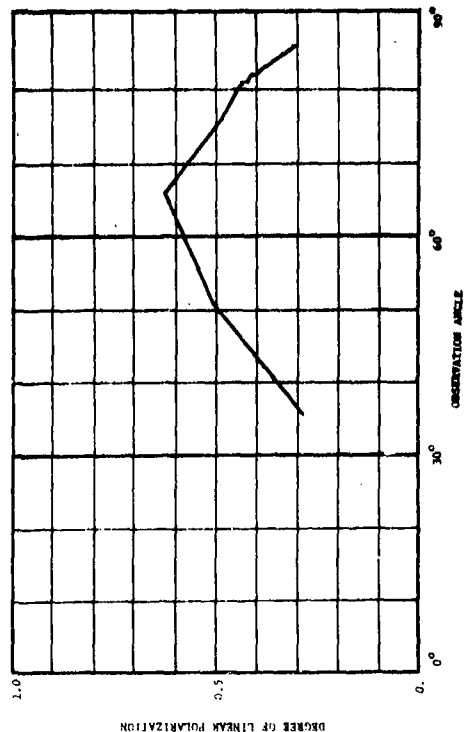
*B13864-062 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECRBK CED CH DORC DFD DK ECR

PARAMETER INFORMATION

DATE- 01/01/60 TIME- 12:00
DAY- 01/01/60 TIME- 12:00
ORGT- 01/01/60 TIME- 12:00
TEMP- 25.0 F DEN PT- 1
LAT- 0 LONG- 0
HWD SP- 0 HWD DI- 0
S AVE- 1 LANDON- 1.3



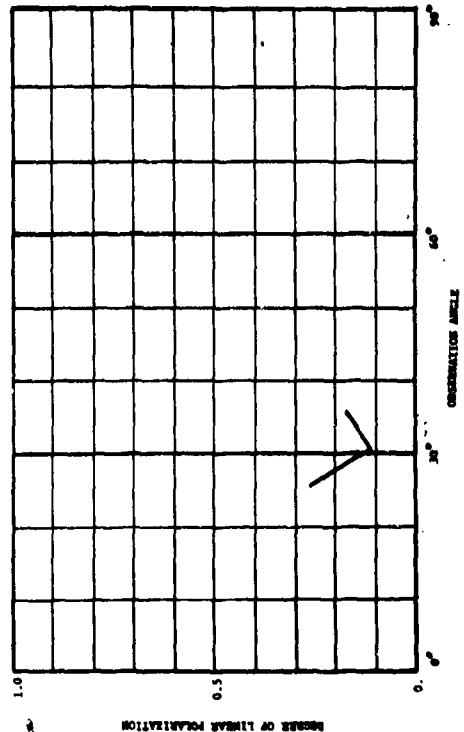
*B13864-079 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECRBK CED CH DORC DFD DK ECR

PARAMETER INFORMATION

DATE- 01/01/60 TIME- 12:00
DAY- 01/01/60 TIME- 12:00
ORGT- 01/01/60 TIME- 12:00
TEMP- 25.0 F DEN PT- 1
LAT- 0 LONG- 0
HWD SP- 0 HWD DI- 0
S AVE- 1 LANDON- 1.3



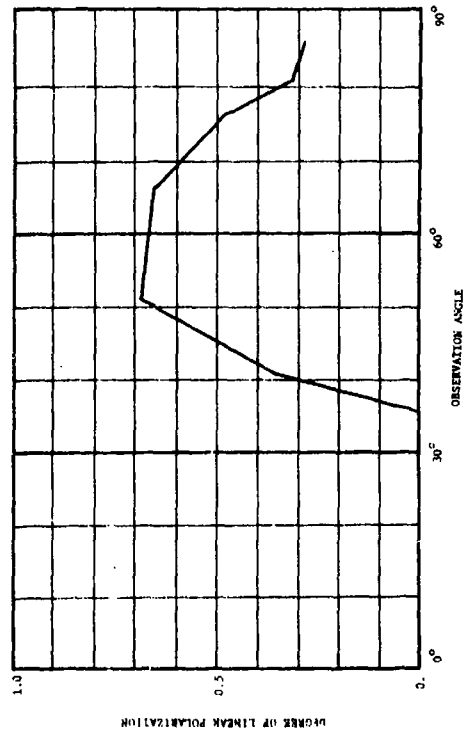
*B13864-061 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECRBK CED CH DORC DFD DK ECR

PARAMETER INFORMATION

DATE- 01/01/60 TIME- 12:00
DAY- 01/01/60 TIME- 12:00
ORGT- 01/01/60 TIME- 12:00
TEMP- 25.0 F DEN PT- 1
LAT- 0 LONG- 0
HWD SP- 0 HWD DI- 0
S AVE- 1 LANDON- 1.3



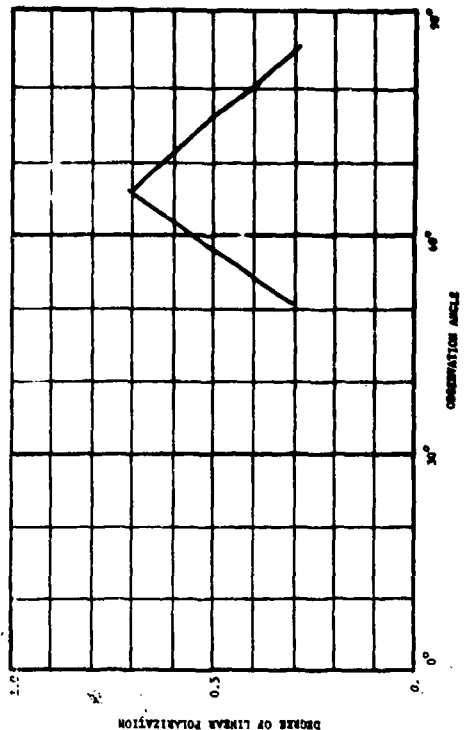
*B13864-063 Flat Gray Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM ECRBK CED CH DORC DFD DK ECR

PARAMETER INFORMATION

DATE- 01/01/60 TIME- 12:00
DAY- 01/01/60 TIME- 12:00
ORGT- 01/01/60 TIME- 12:00
TEMP- 25.0 F DEN PT- 1
LAT- 0 LONG- 0
HWD SP- 0 HWD DI- 0
S AVE- 1 LANDON- 1.3



CONFIDENTIAL

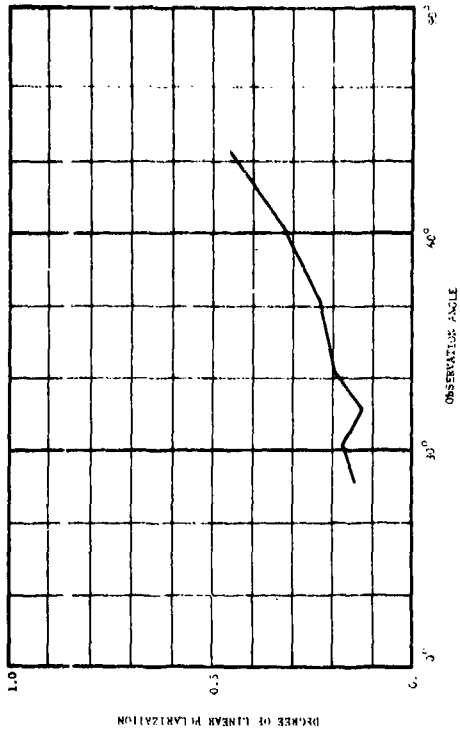
CONFIDENTIAL

AFM 8

•B1384-083 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

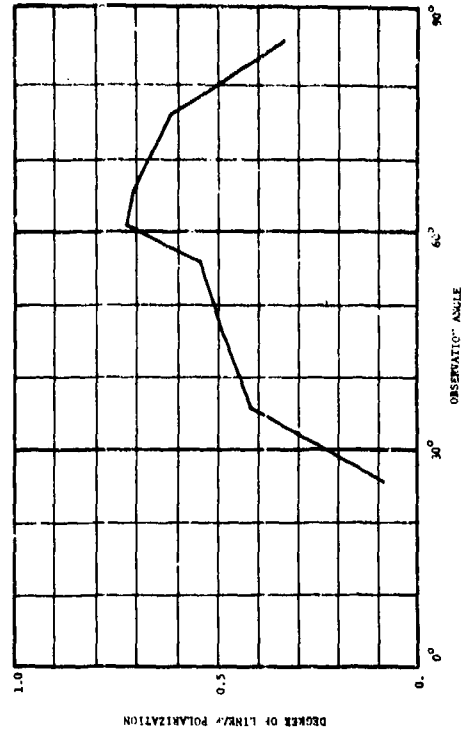
ASH ECRBF CED CN DORC DEF DK ECR
PARAMETER INFORMATION
DATE= TIME= LAT= LONG= ALT= RANGE=
DAYS RE= 12-60 CM= CDS= 180
OBS= 120 SP= WIND DI= 120 E
TEMP= DEN PT= S AVE= 1 LANDMA= 500



•B1384-083 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

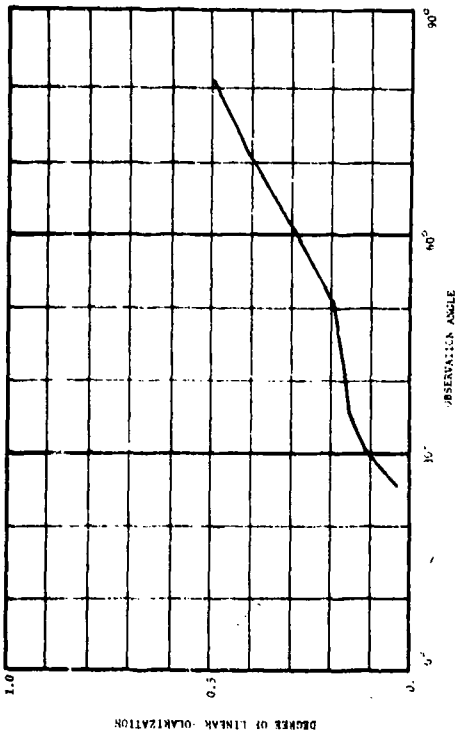
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DATE= TIME= LAT= LONG= ALT= RANGE=
DAYS RE= 12-60 CM= CDS= 180
OBS= 120 SP= WIND DI= 120 E
TEMP= DEN PT= S AVE= 1 LANDMA= 500



•B1384-080 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

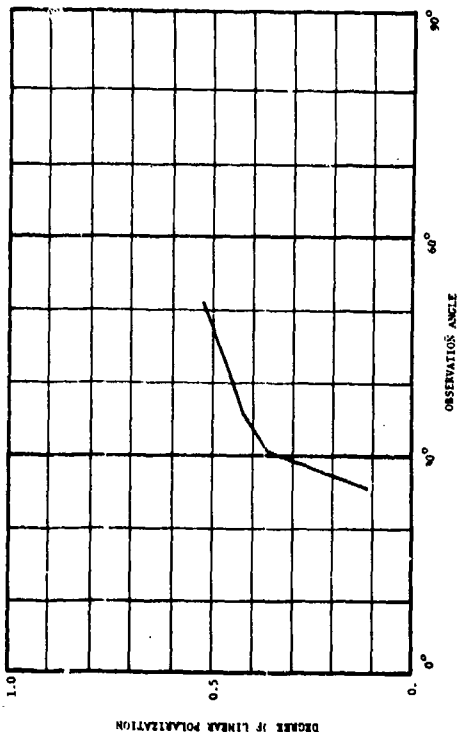
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PARAMETER INFORMATION
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DAYS RE= 12-60 CM= CDS= 180
OBS= 120 SP= WIND DI= 120 E
TEMP= DEN PT= S AVE= 1 LANDMA= 500



•B1384-080 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

ASH ECRBF CED CN DORC DEF DK ECR
PARAMETER INFORMATION
DATE= TIME= LAT= LONG= ALT= RANGE=
DAYS RE= 12-60 CM= CDS= 180
OBS= 120 SP= WIND DI= 120 E
TEMP= DEN PT= S AVE= 1 LANDMA= 500



CONFIDENTIAL

CONFIDENTIAL

AEM- 0

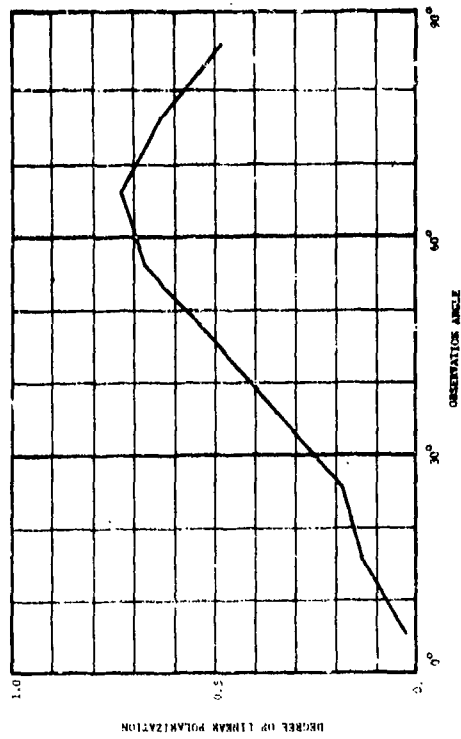
• B1J864-085
Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

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PARAMETER INFORMATION

DATE	TIME	LAT	LONG	ALT	RANGE
DAYS RE=	DAYS 60	LAT- 0	CN-	CAL-	TRG- E
OBSZ=	ITRG=	WIND S ^m	WIND D ^s	CLD=	VIS-
TYPE	UNIT	N WAVE L	Mph/mph		Km



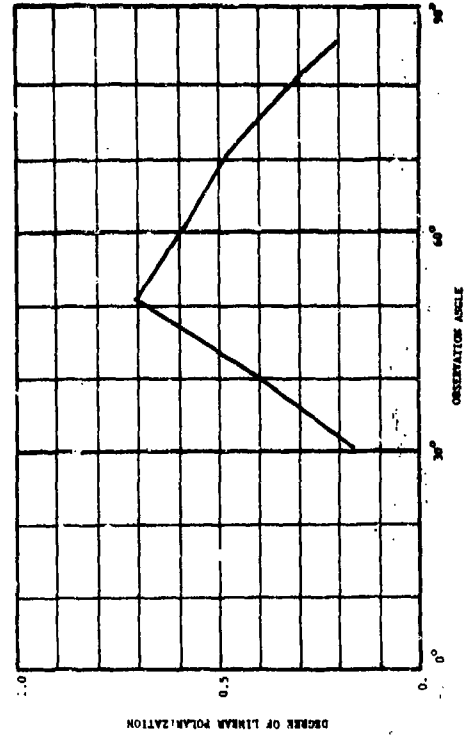
• B13864-087
Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

APR	ECRDF	CTD	CR	TRBC	LTB	DK	LCB
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PAT. OFFICE INFORMATION

DATE	TIME	LAT	LONG	ALT	RASTER
DAYS 40	13:40	LAT= 0	CR=	CLD=	TIME= 1
ORST	TIME	WIND SP	WIND DIR		WLS=
DEW PT	DEW PT	% AFT= 1	LOGS=		



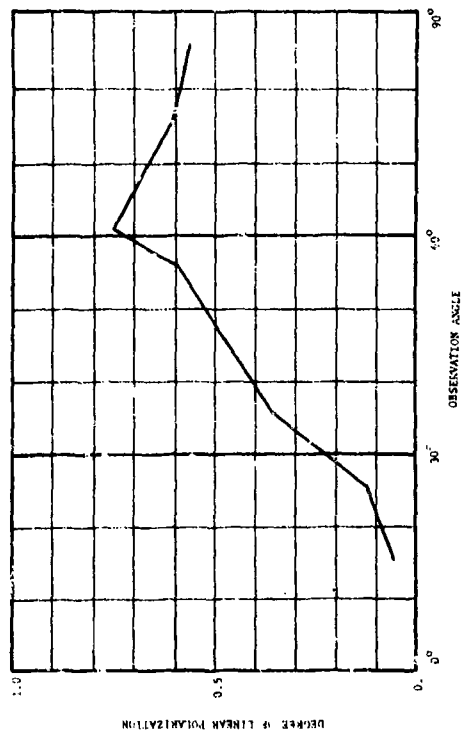
• B13664-084
Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

ASH	ECBPF	CEG	CM	DDBC	DFD	DM	ECB
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PARAMETER INFORMATION

DATE	TIME	LAT	LONG	ALT	RANGE
DAY	HR	IN	OUT	CAZ	TRG E
OBS	ITEM	WIND	DIR	CLD	VIS
TEMP	DEG BT	N	AVE	LAMDA	ASH



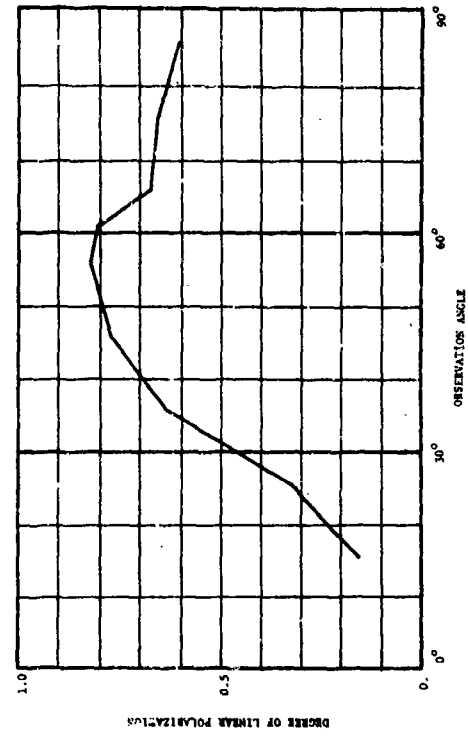
• B1384-086 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

SECRET 000000

PARAMETER INFORMATION

DATE	TIME	LAT	LONG	ALT	RANGE
DAYS BE	IN= 60	LAT= 0	CH	CAZ=	IRB= E
OBS	TEMP	WIND SP	WIND DI	CLD=	VIS=
TEMP	DEW PT	S AVE	LAND		



CONFIDENTIAL

CONFIDENTIAL

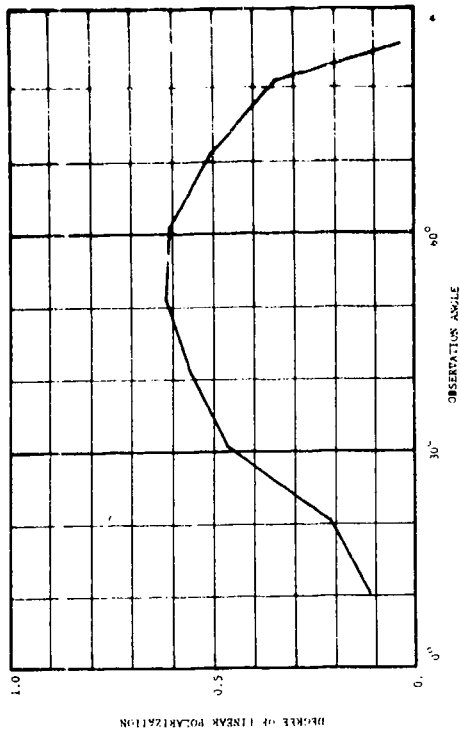
*813864-089 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

AEM EGBF CED CM DDBF DFE DM ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 178 E
DAYS RE= IN=80 IAZ= 0 CM= CAZ= 180
OBS= TTDP= WIND SP= WIND DI= CLD= 155
TEMP= DEN PT= LAMBDA= .546



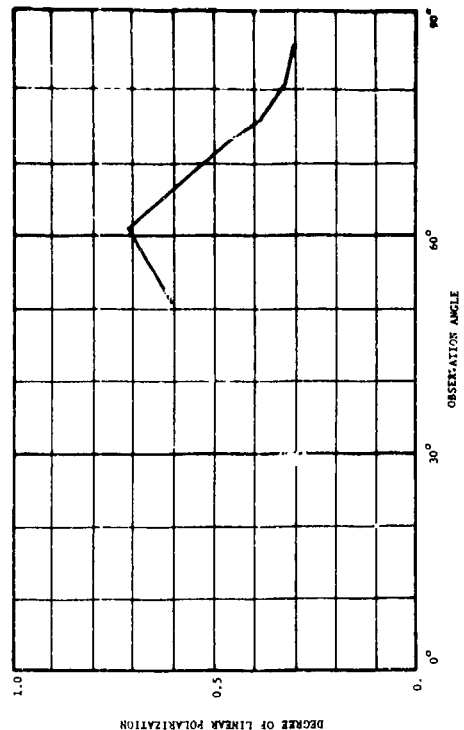
*813864-091 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

AEM EGBF CED CM DDBF DFE DM ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 178 E
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OBS= TTDP= WIND SP= WIND DI= CLD= 155
TEMP= DEN PT= LAMBDA= .423



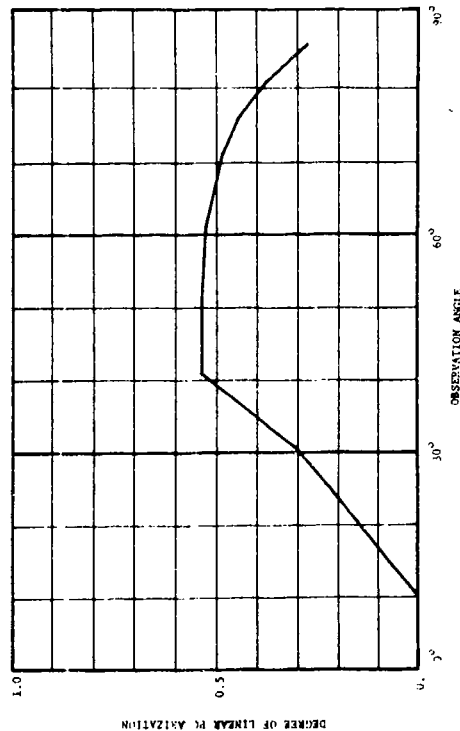
*813864-088 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

AEM EGBF CED CM DDBF DFE DM ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180 E
DAYS RE= IN=80 IAZ= 0 CM= CAZ= 180
OBS= TTDP= WIND SP= WIND DI= CLD= 155
TEMP= DEN PT= LAMBDA= .656



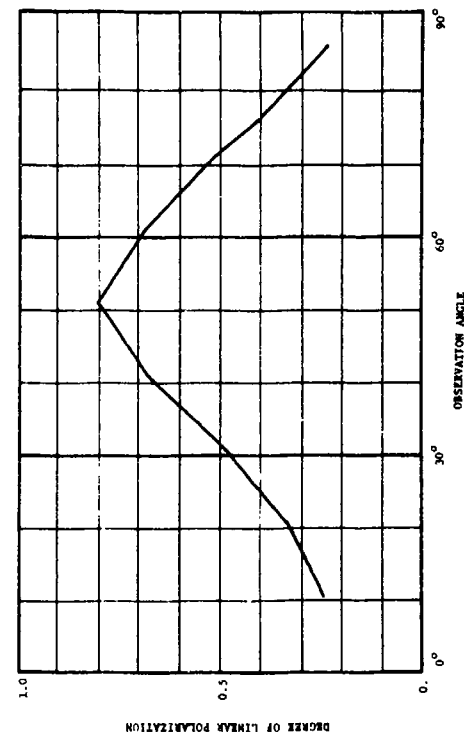
*813864-090 Camouflage Brown Paint. (CONFIDENTIAL)

SUBJECT CODES

AEM EGBF CED CM DDBF DFE DM ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180 E
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OBS= TTDP= WIND SP= WIND DI= CLD= 155
TEMP= DEN PT= LAMBDA= .686



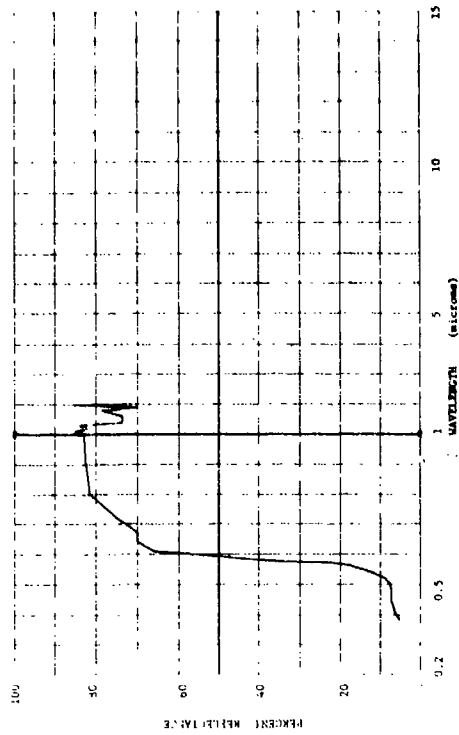
CONFIDENTIAL

SECRET

ARM 11

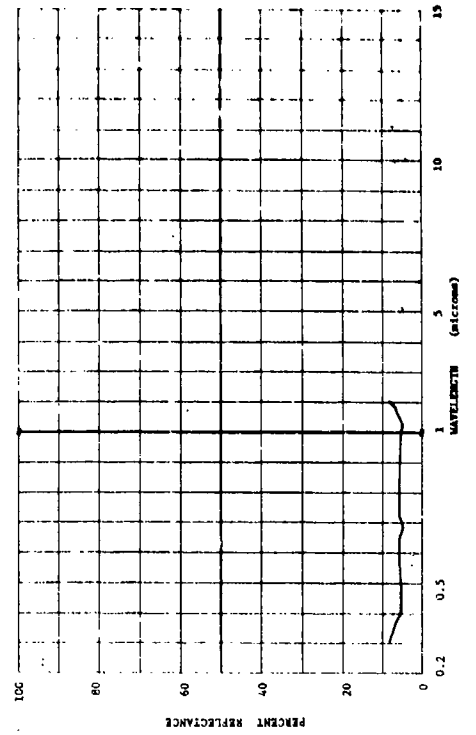
• 81-004-066 Orange Paint, Military Standard 32246, on Wood. (CONFIDENTIAL)

SUBJECT CODES
ASR ECBL ALT CD CED DFAB DPCD DK EOCAC EOCB
EUS EOCB EOCB
PARAMETER INFORMATION
DATE= 64 TIME= 1800
DAYS RE= 1800
OBS= 1800
TEMP= 1800
WIND SP= 1800
WIND DI= 1800
N AVE= 1800
RANGE= 1800
TAR= E
VIS= 1800
ALT= 1800
CAZ= 1800
CLD= 1800



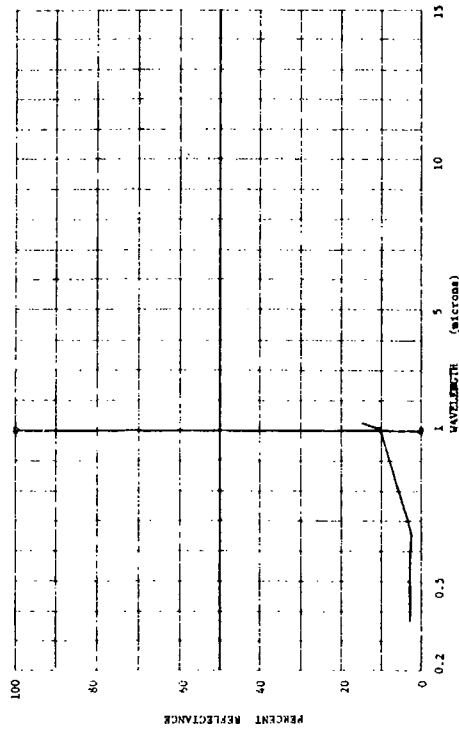
• 81-004-070 Black Paint, Military Standard 37038, on Wood. (CONFIDENTIAL)

SUBJECT CODES
ASR ECBL ALT CD CED DFAB DPCD DK EOCAC EOCB
EUS EOCB EOCB
PARAMETER INFORMATION
DATE= 64 TIME= 1800
DAYS RE= 1800
OBS= 1800
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WIND DI= 1800
N AVE= 1800
RANGE= 1800
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VIS= 1800
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CAZ= 1800
CLD= 1800



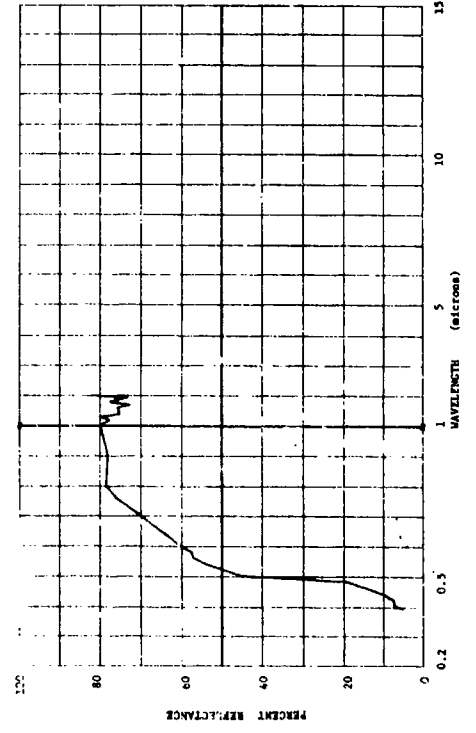
• 81-004-067 Black Metal, Dry. (SECRET)

SUBJECT CODES
ASR ECBL ALT CD CED DFAB DPCD DK EOCAC EOCB
EUS EOCB EOCB
PARAMETER INFORMATION
DATE= 64 TIME= 1800
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WIND DI= 1800
N AVE= 1800
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TAR= E
VIS= 1800
ALT= 1800
CAZ= 1800
CLD= 1800



• 81-004-069 Yellow Paint, Military Standard 33481, on Wood. (CONFIDENTIAL)

SUBJECT CODES
ASR ECBL ALT CD CED DFAB DPCD DK EOCAC EOCB
EUS EOCB EOCB
PARAMETER INFORMATION
DATE= 64 TIME= 1800
DAYS RE= 1800
OBS= 1800
TEMP= 1800
WIND SP= 1800
WIND DI= 1800
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RANGE= 1800
TAR= E
VIS= 1800
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CAZ= 1800
CLD= 1800



SECRET

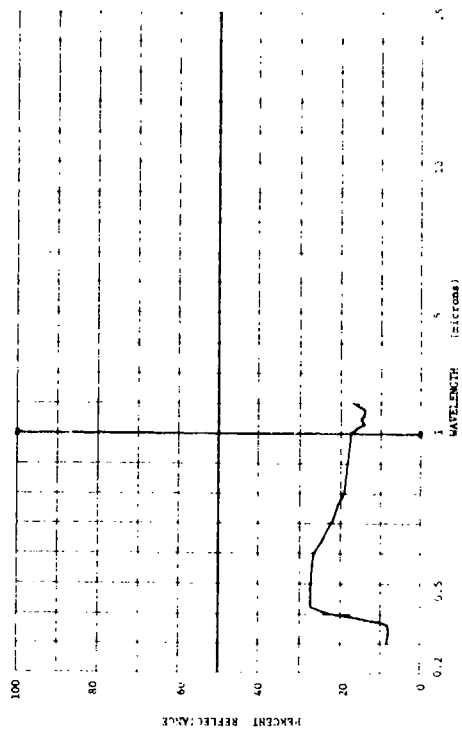
CONFIDENTIAL

AFM 11

* B14004-075 Dark Gray Paint, Military Standard 36514, on Wood. (CONFIDENTIAL)

SUBJECT CODES

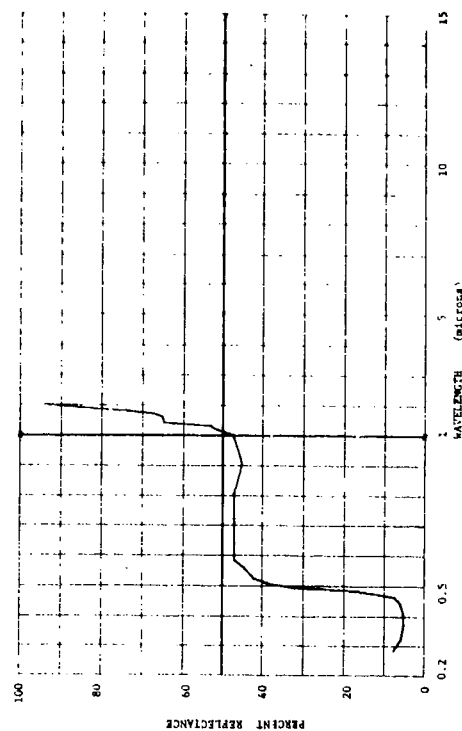
ASH ECBBK AEL CD CED DFAB DFCD DK ECAJ ECAJ
ECB ECCA ECEB
PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- IN-
OBS- TTEMP-
TEMP- DEN PT-
N AVE- 1



* B14004-078 Yellow Paint, Military Standard 33-81, on Metal. (CONFIDENTIAL)

SUBJECT CODES

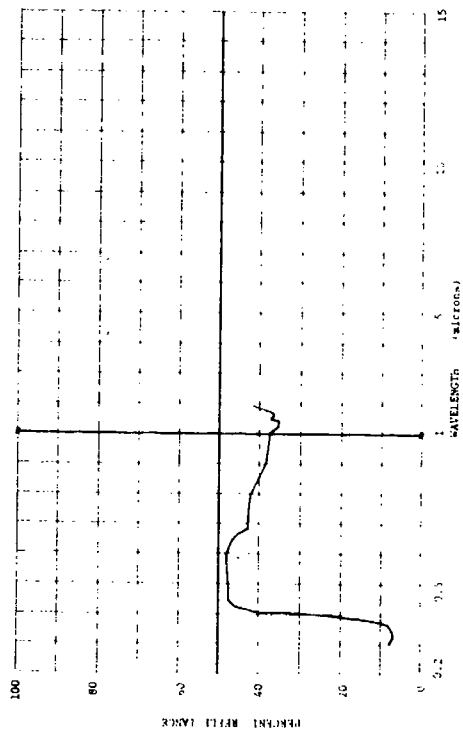
ASH ECBBK AEL CD CED DFAB DFCD DK ECAJ ECAJ
ECB ECCA ECEB
PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- IN-
OBS- TTEMP-
TEMP- DEN PT-
N AVE- 1



* B14004-073 Light Gray Paint, Military Standard 36-03, on Wood. (CONFIDENTIAL)

SUBJECT CODES

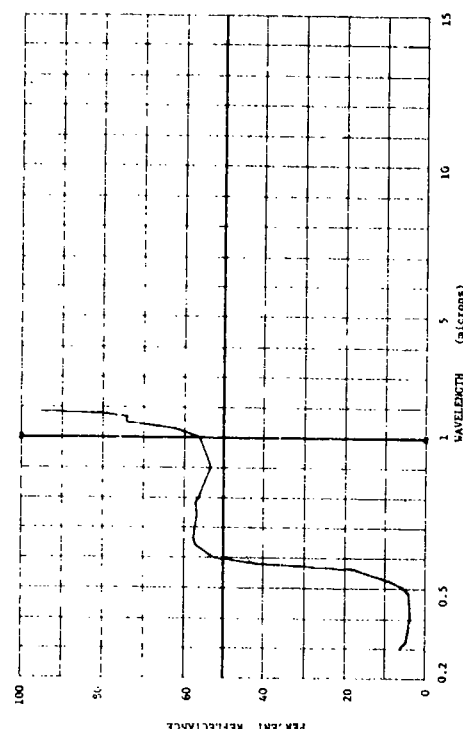
ASH ECBBK AEL CD CED DFAB DFCD DK ECAJ ECAJ
ECB ECCA ECEB
PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- IN-
OBS- TTEMP-
TEMP- DEN PT-
N AVE- 1



* B14004-077 Orange Paint, Military Standard 33-04, on Metal. (CONFIDENTIAL)

SUBJECT CODES

ASH ECBBK AEL CD CED DFAB DFCD DK ECAJ ECAJ
ECB ECCA ECEB
PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- IN-
OBS- TTEMP-
TEMP- DEN PT-
N AVE- 1



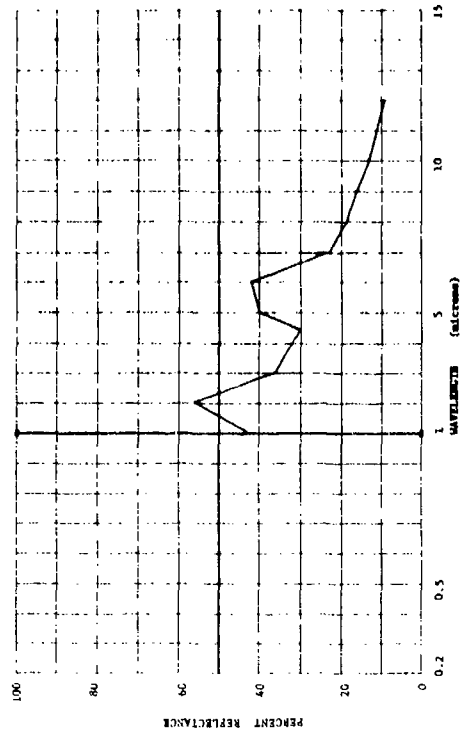
CONFIDENTIAL

CONFIDENTIAL

AEM 10

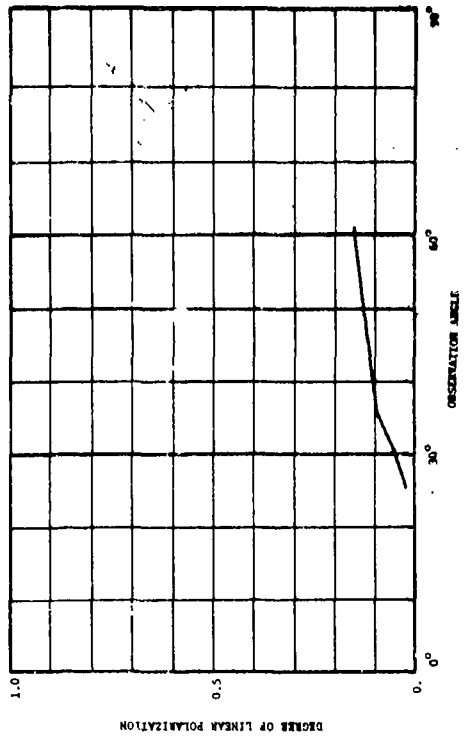
* B13501-009 Lacquer, White, 70 Mild Steel, Full Gloss. (CONFIDENTIAL)

SUBJECT CODES
AEM AEL CUC CUD DPA DMC ECA ECE ECD EGD
ECE
PARAMETER INFORMATION
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DAYS RE IN-
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TIME DEN PT-
LONG-
LAT-
CAS-
CLD-
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TRM-
VIS-



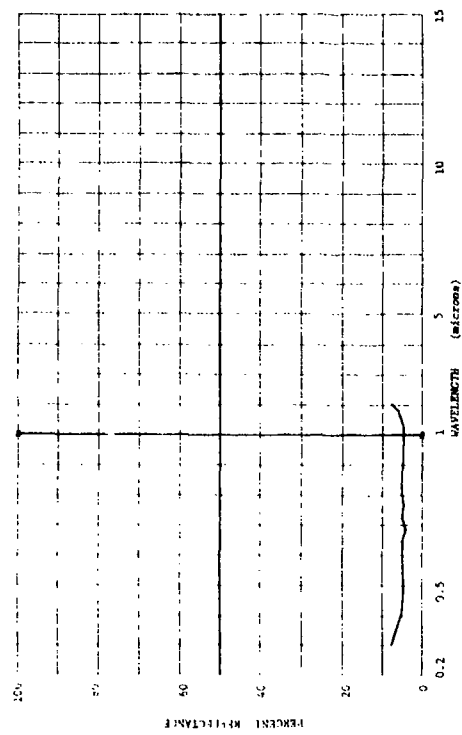
* B13501-034 Flat White Paint. (CONFIDENTIAL)

SUBJECT CODES
AEM AEL CUC CUD DPA DMC ECA ECE ECD EGD
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PARAMETER INFORMATION
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CLD-
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TRM-
VIS-



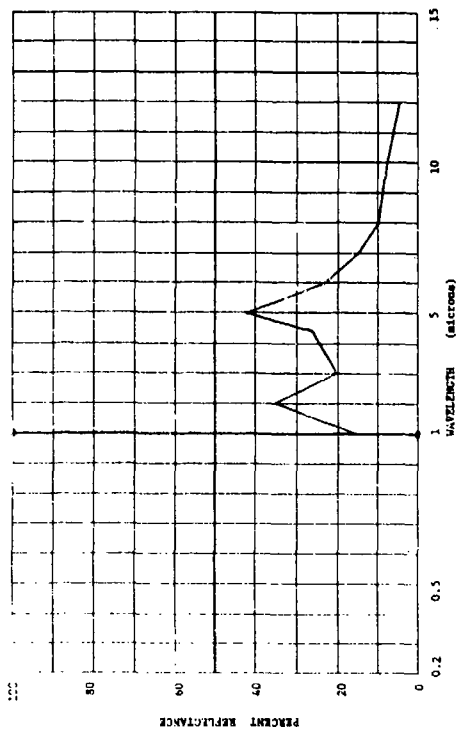
* B13501-015 Lacquer, White, 70 Mild Steel, Lustreless. (CONFIDENTIAL)

SUBJECT CODES
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PARAMETER INFORMATION
DATE SS TIME
DAYS RE IN-
OBS- ITOP-
TIME DEN PT-
LONG-
LAT-
CAS-
CLD-
RANGE-
TRM-
VIS-



* B13501-015 Lacquer, White, 70 Mild Steel, Lustreless. (CONFIDENTIAL)

SUBJECT CODES
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ECE
PARAMETER INFORMATION
DATE SS TIME
DAYS RE IN-
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CONFIDENTIAL

• H13864-036

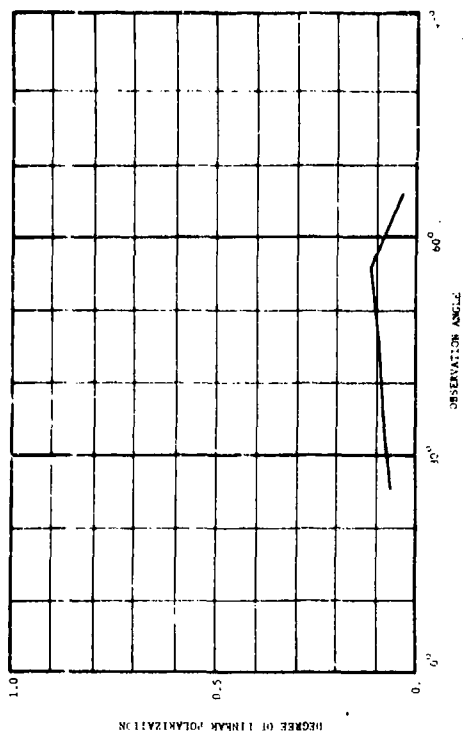
* 81366-035

SUBJECT CODES

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PARAMETER INFORMATION

DATE=	TIME=	LAT=	LONG=	ALT=	RANGE=
DAYS RE=	WAVE N	LAZ=	WAVE	AZ=	TR= E
OBS=	TEMP=	WIND SP=	WIND DIR=	CLD=	VIS=
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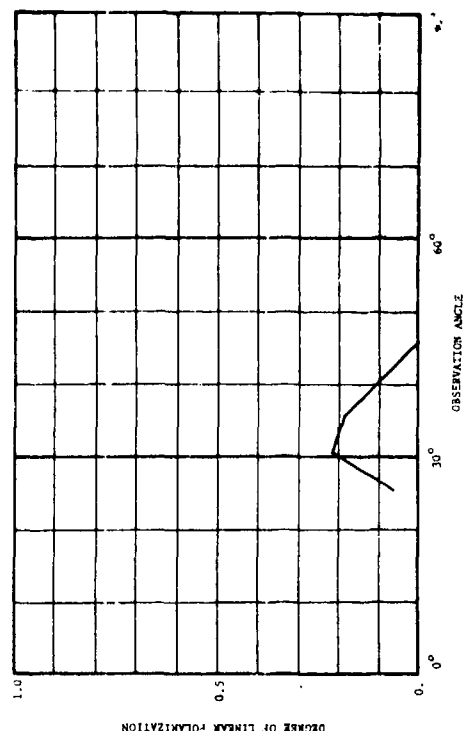
81386-038 Flat White Paint. (CONFIDENTIAL)

SUBJECT CODES

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PARAMETER INFORMATION

DATE	TIME	LAT	LONG	ALT	RANGE
DAYS	IN	TAZ	CH	CAZ	TH
OBJ	TRNG	WIND SP	WIND DIR	CLS	VIS
TEMP	DEN FT	N AVE	LWDADA		



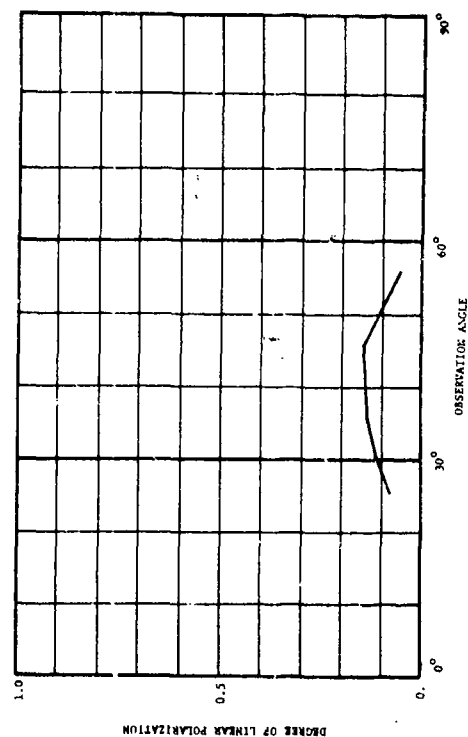
• B13864-037

SUBJECT CODES

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2010	100	100	100	100	100	100	100
2020	100	100	100	100	100	100	100
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2210	100	100	100	100	100	100	100
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2490	100	100	100	100	100	100	100
2500	100	100	100	100	100	100	100
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PARAMETER INFORMATION:

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		LONG=	
		CN=	
		WIND DI=	
		LAMDA=	-86
		N AVE=	1
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		LAZ=	0
		TIME 30	
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		DEN FT=	
		TEND=	
		OBT=	
		DAYS RE=	
		DATE=	



CONFIDENTIAL

AFM 16

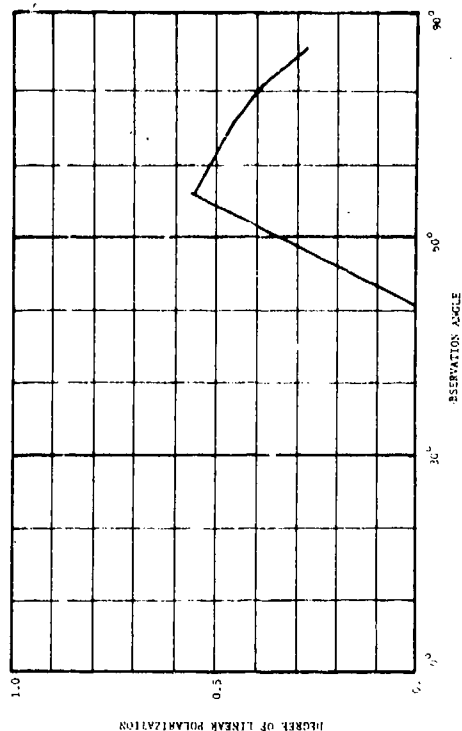
*B1386-044 Flat White Paint. (CONFIDENTIAL)

SUBJECT CODES

ALMA CLO CN DRMC DFL DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 140
DAYS RE= IN=80 IAZ= 0 CH= 180 180 E
OBS= WIND SP= WIND DI= WIND SP= VIS= 1
TEMP= DEN PT= DEN PT= 1 LAMBDA= .704



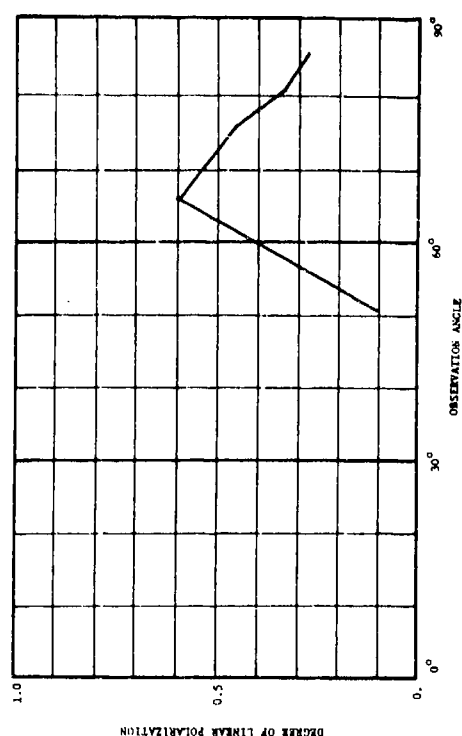
*B1386-046 Flat White Paint. (CONFIDENTIAL)

SUBJECT CODES

ALMA CLO CN DRMC DFL DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 140
DAYS RE= IN=80 IAZ= 0 CH= 180 180 E
OBS= WIND SP= WIND DI= WIND SP= VIS= 1
TEMP= DEN PT= DEN PT= 1 LAMBDA= .544



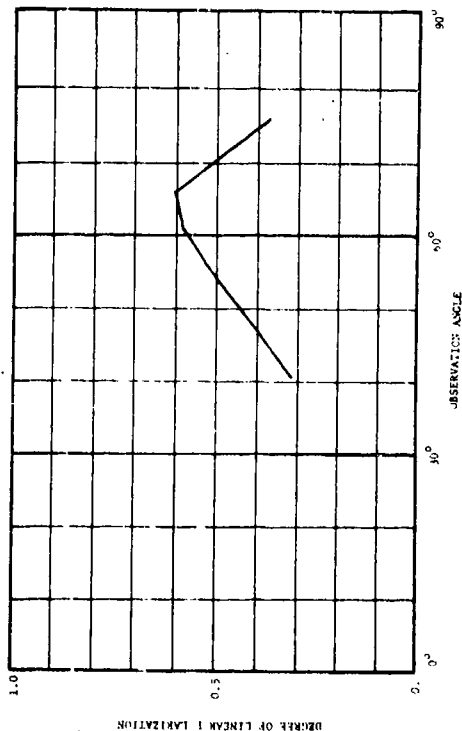
*B1386-043 Flat White Paint. (CONFIDENTIAL)

SUBJECT CODES

ALMA CLO CN DRMC DFL DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= IN=80 IAZ= 0 CH= 180 180 E
OBS= WIND SP= WIND DI= WIND SP= VIS= 1
TEMP= DEN PT= DEN PT= 1 LAMBDA= .423



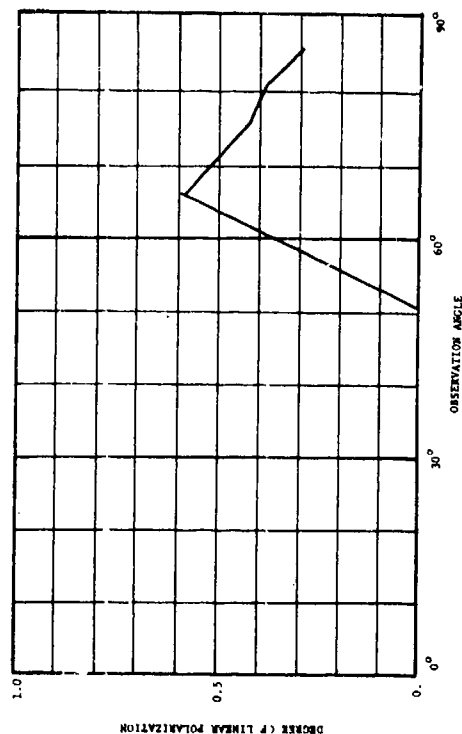
*B1386-045 Flat White Paint. (CONFIDENTIAL)

SUBJECT CODES

ALMA CLO CN DRMC DFL DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= IN=80 IAZ= 0 CH= 180 180 E
OBS= WIND SP= WIND DI= WIND SP= VIS= 1
TEMP= DEN PT= DEN PT= 1 LAMBDA= .556



CONFIDENTIAL

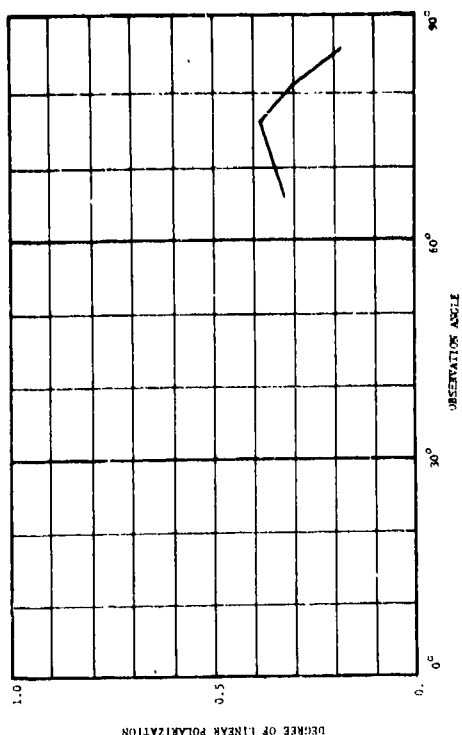
• B-13864-048
Fast White Paint. (CONFIDENTIAL)

SUBJECT CODES

100-443887-100

PARAMETER INFORMATION

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TEN=	DEW PT=	N AVE= 1	LAMPD=	-423	

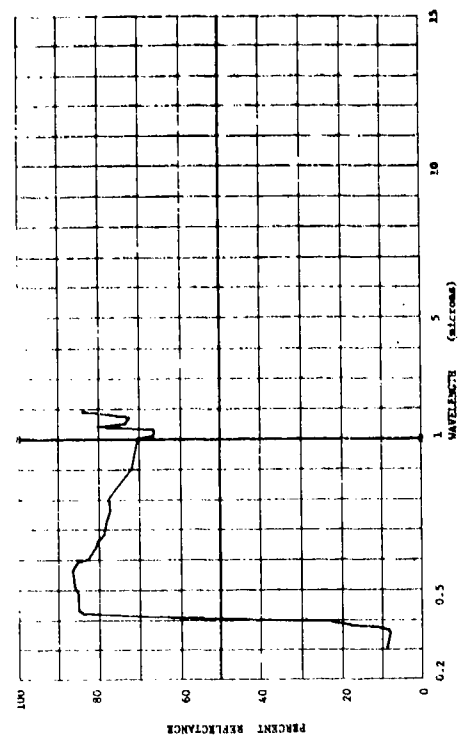


White Paint. Military Standard 37875, on Metal. (CONFIDENTIAL)

SUBJECT CODES

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PARAMETER INFORMATION	
DATE=	64
DAYS RE=	18
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OBS=	
TIME PT=	
LAT=	
LON=	
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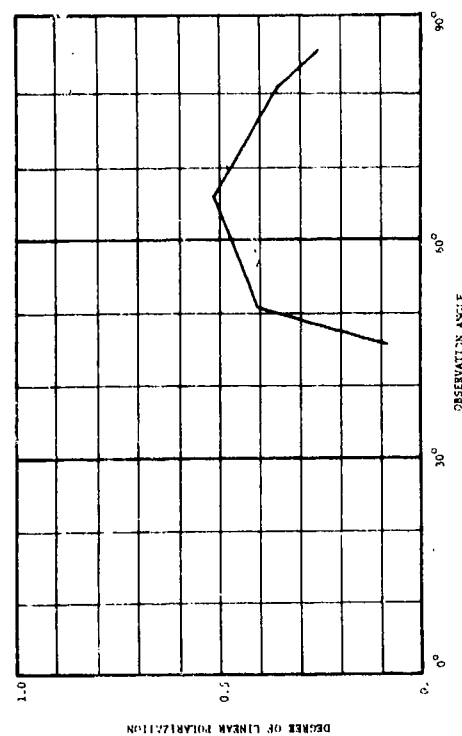
CONFIDENTIAL

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PARAMETER INFORMATION									
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TYPE=	NEW SP=	N AVE=	LAMBDA=						



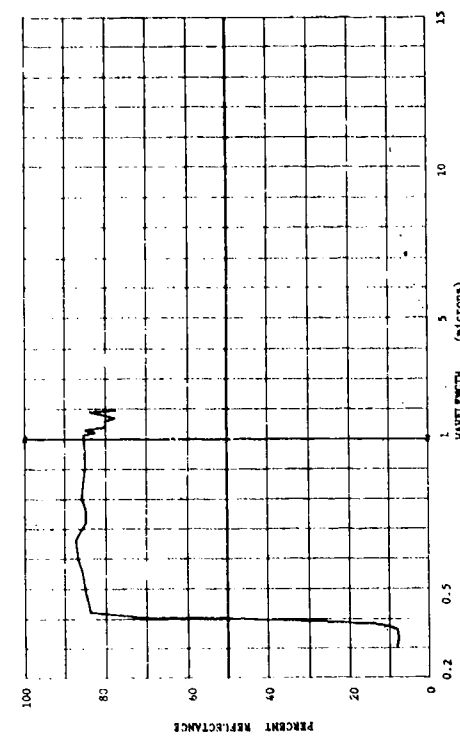
White Paint. Military Standard 37875, on Wood. (CONFIDENTIAL.)

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SUBJECT CODES

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PARAMETER INFORMATION					
DATE	TIME	LAT	LONG	AUT	RANGE
DAYS RE	1K	LON	CN	CAZ	IRB= E
OBSI	TITG	WIND SP	WIND DI	CLD	VIS-



CONFIDENTIAL

AFM 18

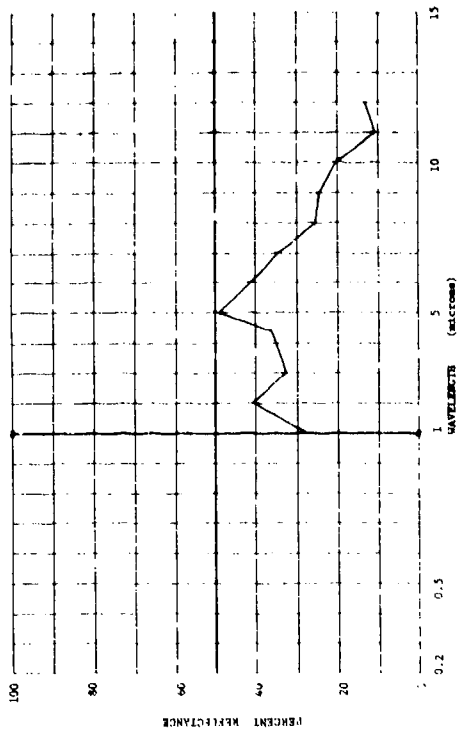
• B13501-002 Examel, Olive Drab, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADPB EGBBI AEL CDC DFPA DGC ECGA ECGE ECCC
ECCD ECGE

PARAMETER INFORMATION
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OBS= 12:00
TIME= 12:00
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LAT= 100-00-00
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WIND SP= 0
WAVE= 1

RANGE= 100-00-00
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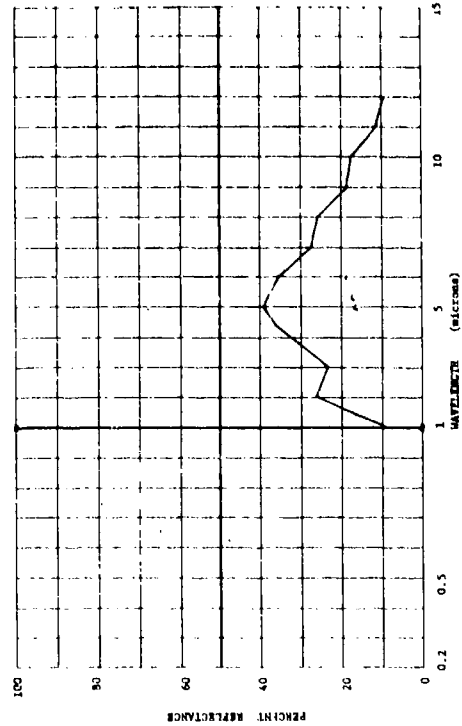
• B13501-004 Synthetic Examel, Olive Drab, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADPB EGBBI AEL CDC DFPA DGC ECGA ECGE ECCC
ECCD ECGE

PARAMETER INFORMATION
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DATE RE= 12:00
OBS= 12:00
TIME= 12:00
DEM PT= 1

LONG= 100-00-00
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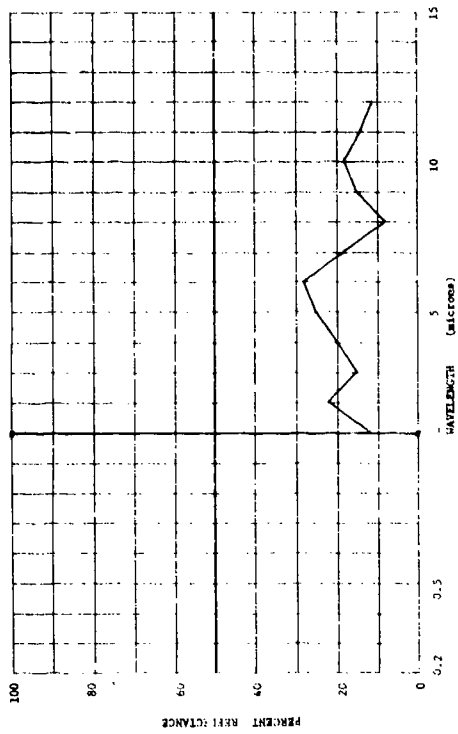
• B13501-001 Examel, Olive Drab, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADPB EGBBI AEL CDC DFPA DGC ECGA ECGE ECCC
ECCD ECGE

PARAMETER INFORMATION
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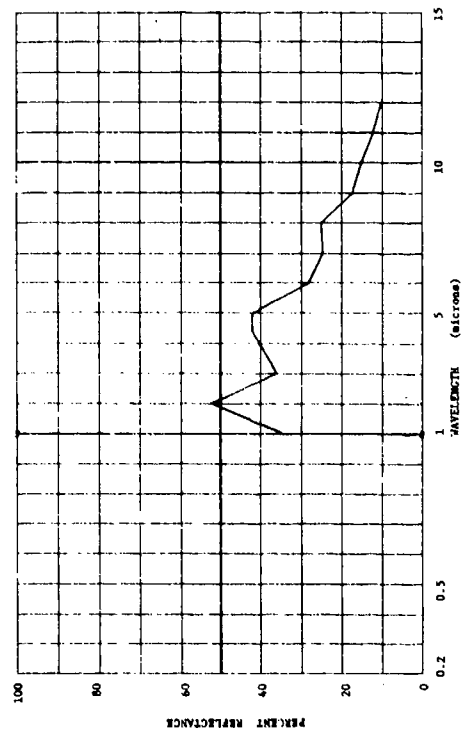
• B13501-003 Synthetic Examel, Olive Drab, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADPB EGBBI AEL CDC DFPA DGC ECGA ECGE ECCC
ECCD ECGE

PARAMETER INFORMATION
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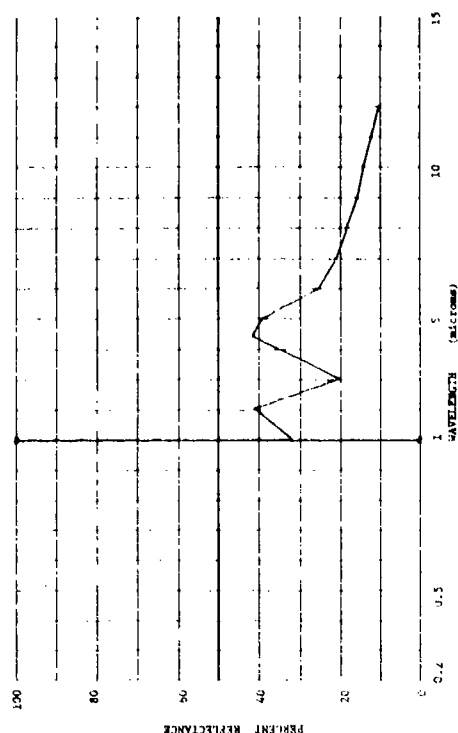
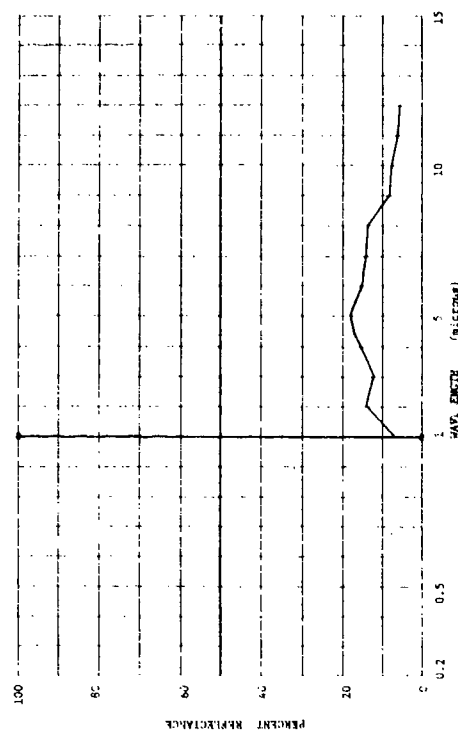
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CONFIDENTIAL

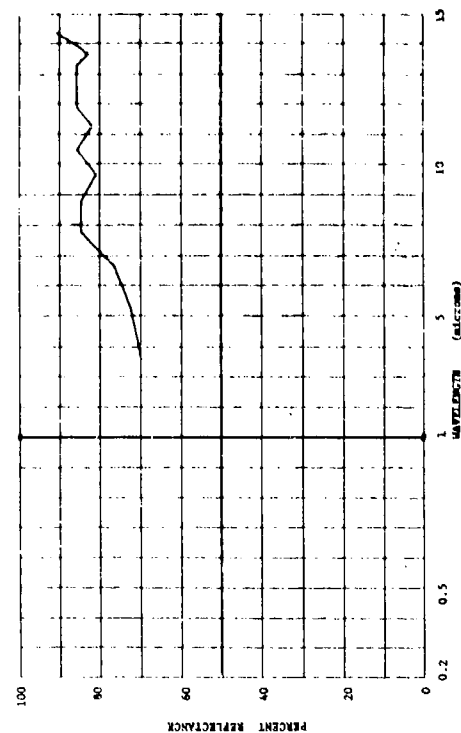
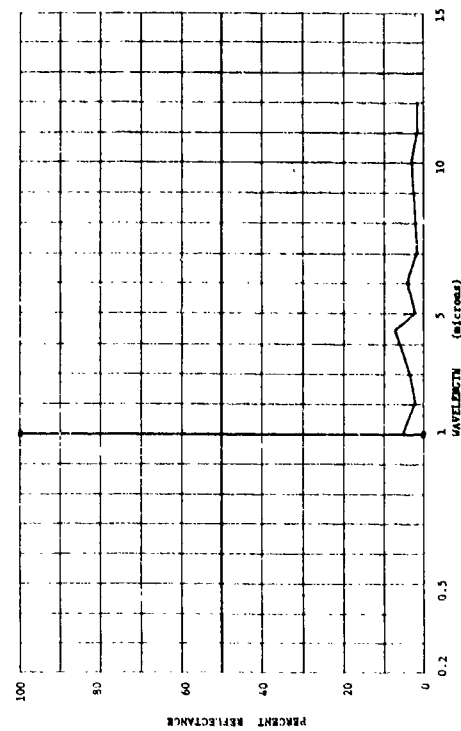
8.3501-005
Synthetic Enamel, Olive Drab, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES				PARAMETER INFORMATION				ECCN			
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1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251
1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263
1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275
1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287
1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299
1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311
1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323
1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335
1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347
1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359
1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371

[illegible]

* B-13621-001 Olive Drab Enamored Steel, 500 Deg. F. - 260 Deg. C. (C36F10E7JAL)

Lacquer, Olive Drab, or Mild Steel, Unrecessed. (CONFIDENTIAL)

[illegible][illegible]

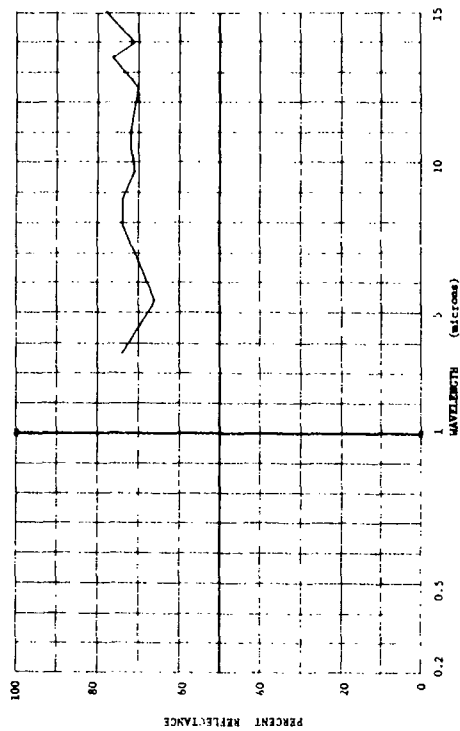
CONFIDENTIAL

AEM 20

*B-13621-003 Olive Drab Enamelled Steel, 150 Deg. F = 65.6 Deg. C. (CONFIDENTIAL)

SUBJECT CODES
AEMB ECMB1 AEL CDC CED DJC DK ECCC ECDD ECCE

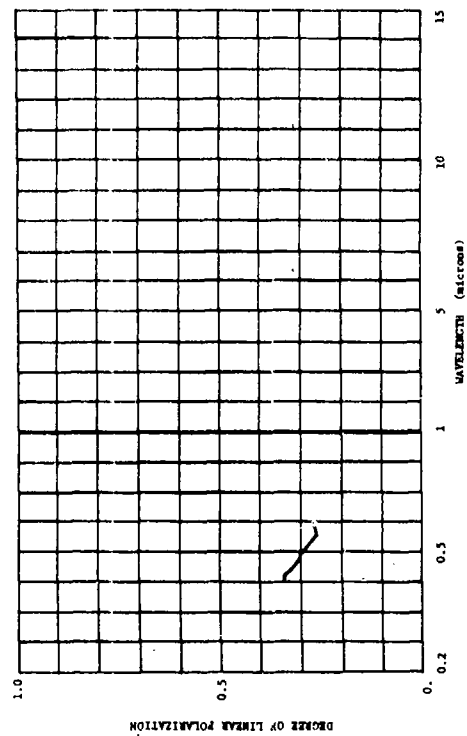
PARAMETER INFORMATION
DATE= 54 TIME= LONG= ALT= RANGE= 160
DAYS RE= 10 IN= CM= 60 CAZ= 160 IR= A
OBS= TTRP= WIND DI= CLD= VIS= 1
TDR= DEN PT= N AVE= 1



*B-1364-002 Glossy Olive Drab. (CONFIDENTIAL)

SUBJECT CODES
AEMB ECMB1 CEC CN DMC DLP ECA

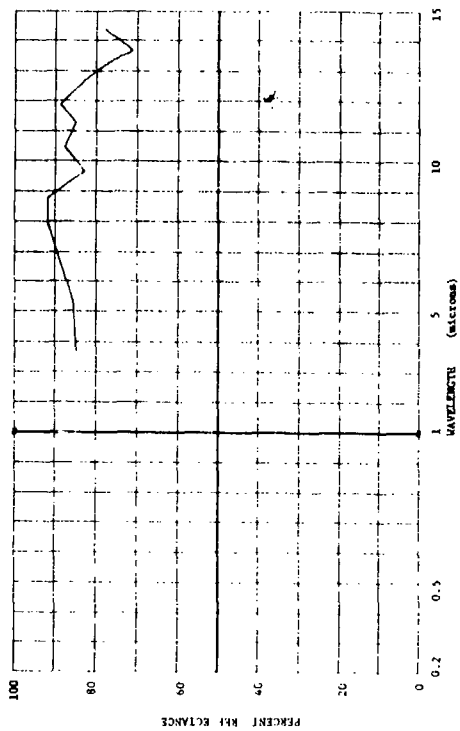
PARAMETER INFORMATION
DATE= 64 TIME= LONG= ALT= RANGE= 160
DAYS RE= 10 IN= 25 CM= 60 CAZ= 160 IR= A
OBS= TTRP= WIND DI= CLD= VIS= 1
TDR= DEN PT= N AVE= 1



*B-13621-002 Olive Drab Enamelled Steel, 300 Deg. F = 148.9 Deg. C. (CONFIDENTIAL)

SUBJECT CODES
AEMB ECMB1 AEL CDC CED DJC DK ECCC ECDD ECCE

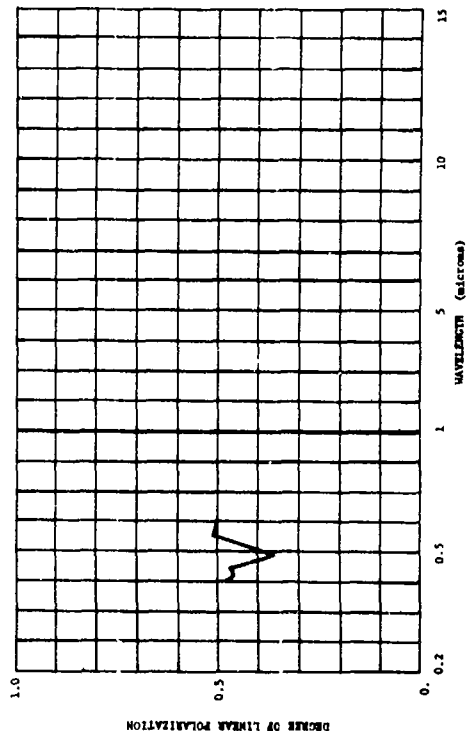
PARAMETER INFORMATION
DATE= 54 TIME= LONG= ALT= RANGE= 160
DAYS RE= 10 IN= CM= 60 CAZ= 160 IR= E
OBS= TTRP= WIND DI= CLD= VIS= 1
TDR= DEN PT= N AVE= 1



*B-1364-001 Smoother Marine Green. (CONFIDENTIAL)

SUBJECT CODES
AEMB CEC CN DMC DLF ECB

PARAMETER INFORMATION
DATE= 64 TIME= LONG= ALT= RANGE= 160
DAYS RE= 10 IN= 25 CM= 60 CAZ= 160 IR= A
OBS= TTRP= WIND DI= CLD= VIS= 1
TDR= DEN PT= N AVE= 1



CONFIDENTIAL

CONFIDENTIAL

ARM 22

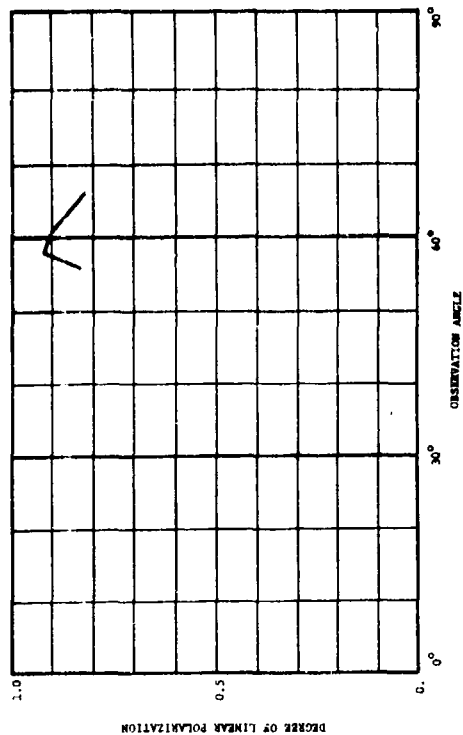
*31384-029 Glossy Olive Drab Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM SCBI CED CN DMC DFD DE ECR

PARAMETER INFORMATION

DATE- 64 TIME- 04
DATA RE- 1200
OBS- 1200
TDR- 1200
LAT- 0
LON- 0
WIND SP- 1
WIND DI- 180
H AVE- 1
LAMBDA- .706
RANGE- 180
CLD- 180
VIS- 180



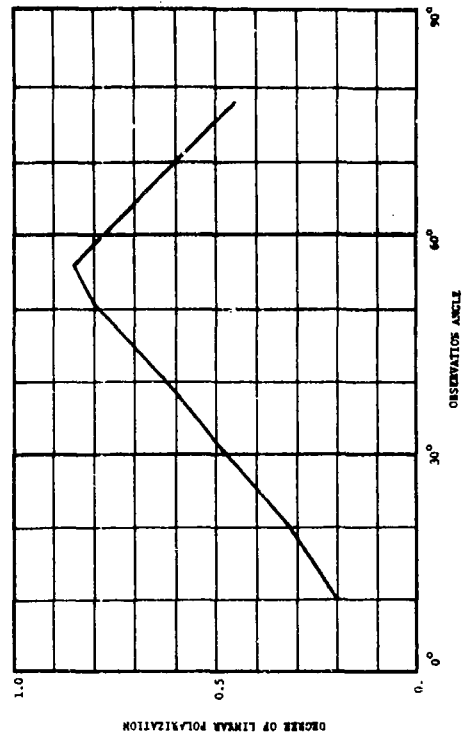
*31384-031 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM SCBI CED CN DMC DFD DE ECR

PARAMETER INFORMATION

DATE- 64 TIME- 04
DATA RE- 1200
OBS- 1200
TDR- 1200
LAT- 0
LON- 0
WIND SP- 1
WIND DI- 180
H AVE- 1
LAMBDA- .656
RANGE- 180
CLD- 180
VIS- 180



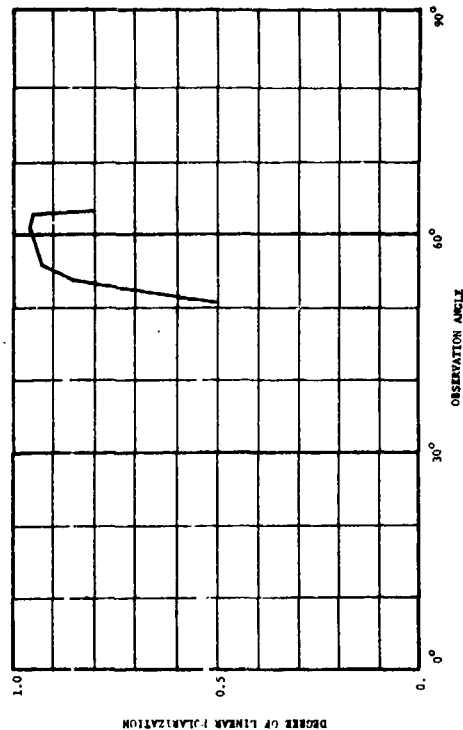
*31384-028 Glossy Olive Drab Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM SCBI CED CN DMC DFD DE ECR

PARAMETER INFORMATION

DATE- 64 TIME- 04
DATA RE- 1200
OBS- 1200
TDR- 1200
LAT- 0
LON- 0
WIND SP- 1
WIND DI- 180
H AVE- 1
LAMBDA- .656
RANGE- 180
CLD- 180
VIS- 180



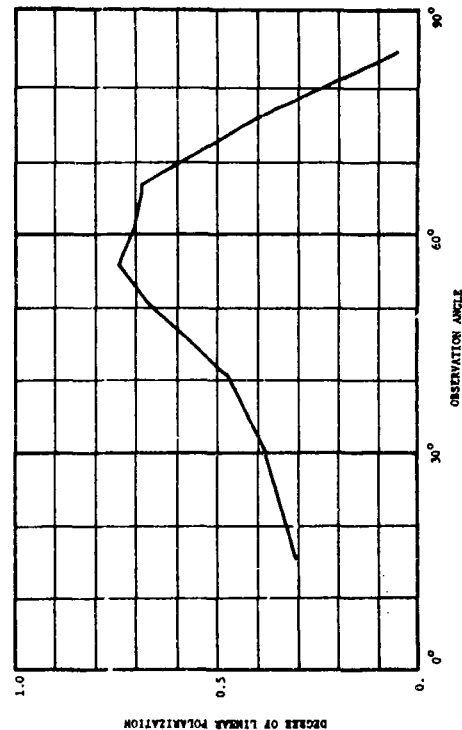
*31384-030 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ARM SCBI CED CN DMC DFD DE ECR

PARAMETER INFORMATION

DATE- 64 TIME- 04
DATA RE- 1200
OBS- 1200
TDR- 1200
LAT- 0
LON- 0
WIND SP- 1
WIND DI- 180
H AVE- 1
LAMBDA- .486
RANGE- 180
CLD- 180
VIS- 180



CONFIDENTIAL

CONFIDENTIAL

AEM 23

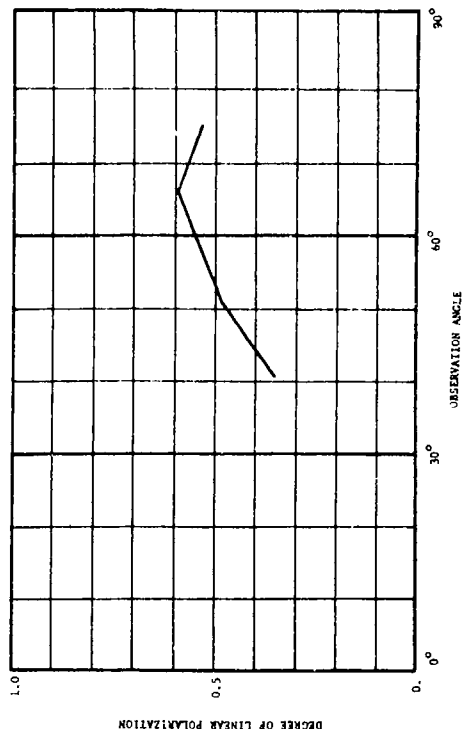
*B1386-033 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADXB CED CN DDMC DTD DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= IN=60 IAS=0 CN= CAZ= 180 IIR= E
OBS= WIND SP= WIND DI= WIND DI= 180 VIS= 180
TEMP= DEN FT= LAMBDA= .546



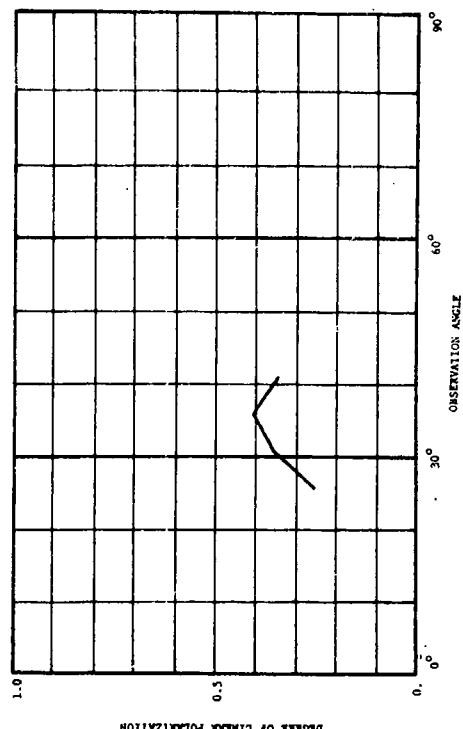
*B1386-065 Semigloss Marine Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADXB CED CN DDMC DTD DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= IN=30 IAS=0 CN= CAZ= 180 IIR= E
OBS= WIND SP= WIND DI= WIND DI= 180 VIS= 180
TEMP= DEN FT= LAMBDA= .656



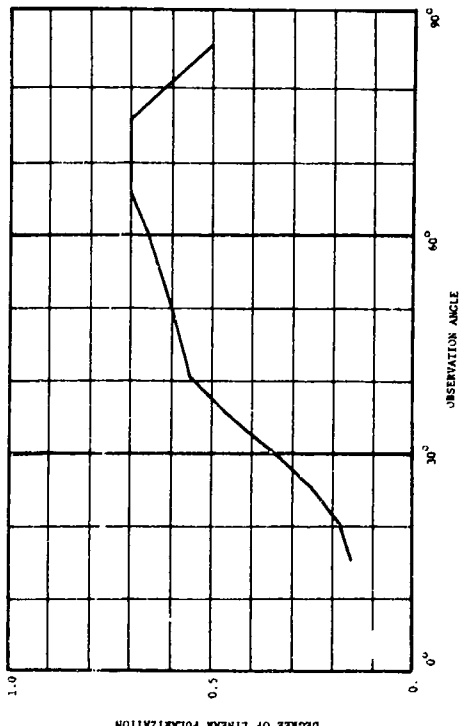
*B1386-042 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADXB CED CN DDMC DTD DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= IN=60 IAS=0 CN= CAZ= 180 IIR= E
OBS= WIND SP= WIND DI= WIND DI= 180 VIS= 180
TEMP= DEN FT= LAMBDA= .546



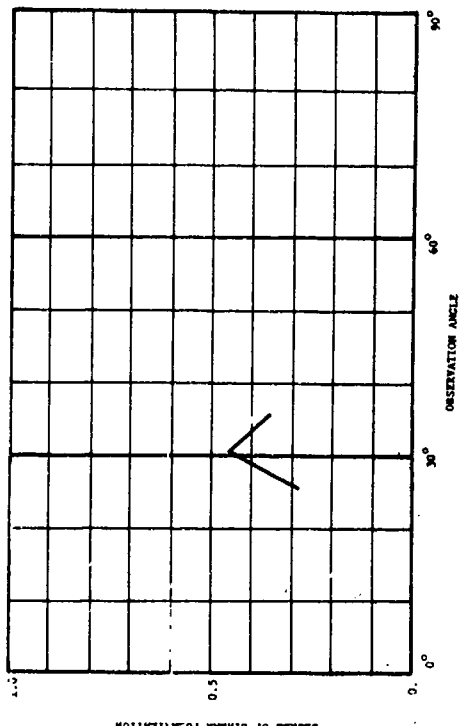
*B1386-044 Semigloss Marine Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADXB CED CN DDMC DTD DK ECB

PARAMETER INFORMATION

DATE= TIME= LAT= LONG= ALT= RANGE= 180
DAYS RE= IN=30 IAS=0 CN= CAZ= 180 IIR= E
OBS= WIND SP= WIND DI= WIND DI= 180 VIS= 180
TEMP= DEN FT= LAMBDA= .706



CONFIDENTIAL

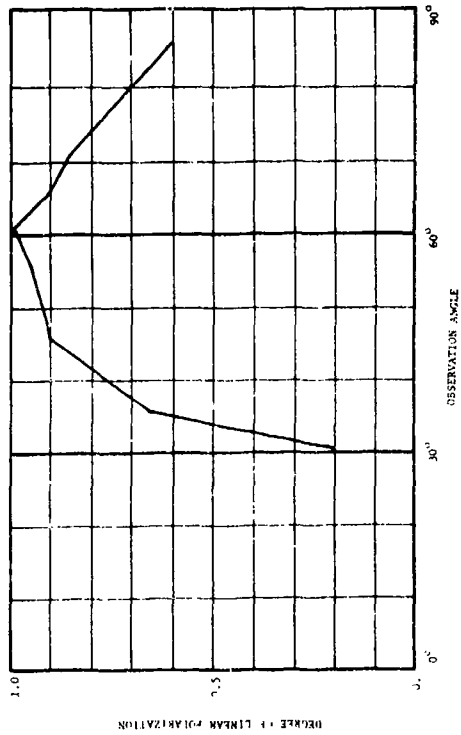
* b13864-071
Semi-gloss Marine Green Paint. (CONFIDENTIAL)

SUBJECT CODES

MEMO DATED 11 FEB 68

PARAMETER INFORMATION

DATE=	DAYS RF=	TIME=	LAT=	LONG=	ALT=	RANGE=
		TIME=00	LAT=0	CN=	CAZ=	180
		TIME=	WIND SP=	WIND DIR=	CLD=	715=
TEMP=		WET B=	N AVE=	LANDSEA=		



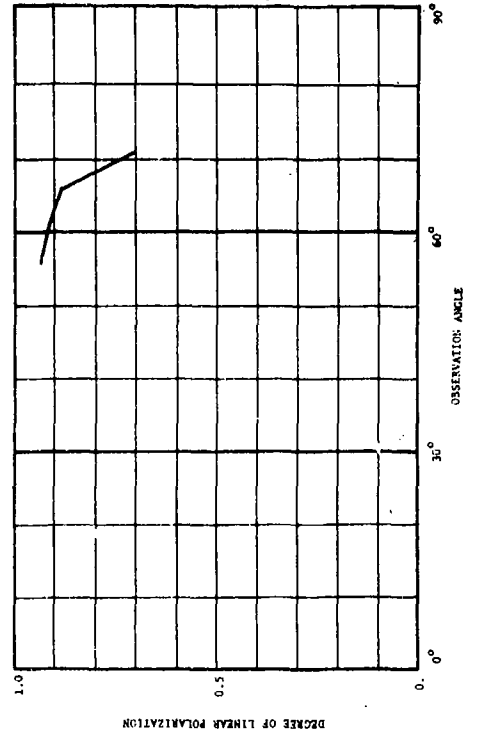
* B1386-0-3

SUBJECT CONES

AEAB	LED	CM	DUBC	DFD	DK	ECB

PARAMETER INFORMATION:

DATE=	TIME=	LAT=	LONG=	ALT=	RANGE=
DAYS RE=	IN=60	LAZ=J	CK=	CAZ=	TRN= E
OBJ=	ITYPE=	WIND SP=	WIND DI=	CLD=	VIS=
TEMP=	DE- PT=	N AVE= 1	LAMBDA= .423		



CONFIDENTIAL

AEM 26

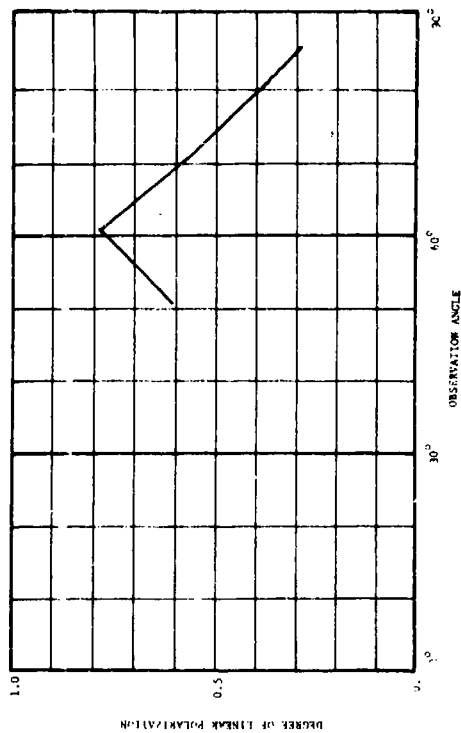
*813864-075 Semigloss Marine Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ASPB CED CN DDMC DFD UK ECB

PARAMETER INFORMATION

DATE= 11-80 TIME= 14-00 LAT= 0 LONG= 0
DAYS RE= 01-80 IAS= 00 ALT= 180 RANGE= 180
OBS= 01-80 WIND SP= 0 WIND DIR= 0 IIR= E
TEMP= 01-80 DEN FT= 0 N AVE= 1 WIND DIR= 0 VIS= 0
LAMBDA= 0.65



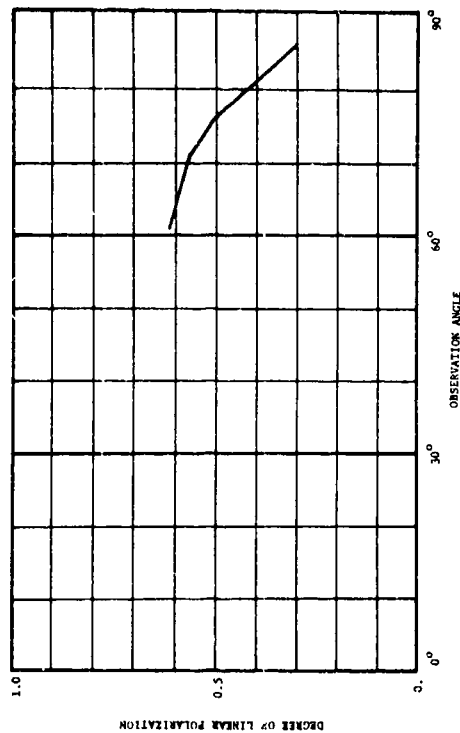
*813864-077 Semigloss Marine Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ASPB CED CN DDMC DFD UK ECB

PARAMETER INFORMATION

DATE= 11-80 TIME= 14-00 LAT= 0 LONG= 0
DAYS RE= 01-80 IAS= 00 ALT= 180 RANGE= 180
OBS= 01-80 WIND SP= 0 WIND DIR= 0 IIR= E
TEMP= 01-80 DEN FT= 0 N AVE= 1 WIND DIR= 0 VIS= 0
LAMBDA= 0.65



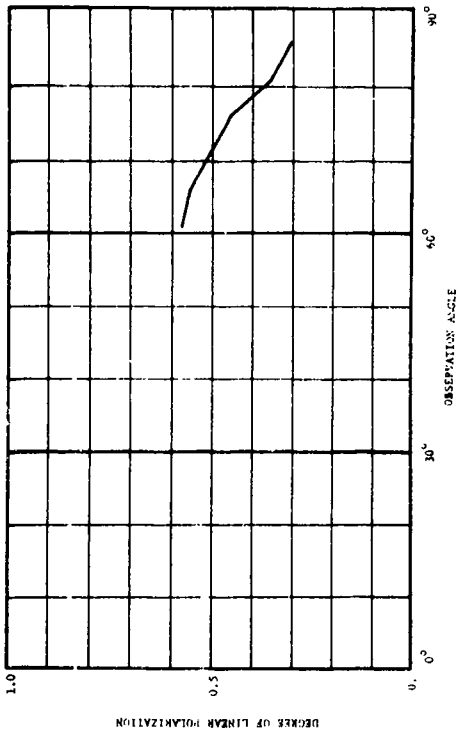
*813864-076 Semigloss Marine Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ASPB CED CN DDMC DFD UK ECB

PARAMETER INFORMATION

DATE= 11-80 TIME= 14-00 LAT= 0 LONG= 0
DAYS RE= 01-80 IAS= 00 ALT= 180 RANGE= 180
OBS= 01-80 WIND SP= 0 WIND DIR= 0 IIR= E
TEMP= 01-80 DEN FT= 0 N AVE= 1 WIND DIR= 0 VIS= 0
LAMBDA= 0.70



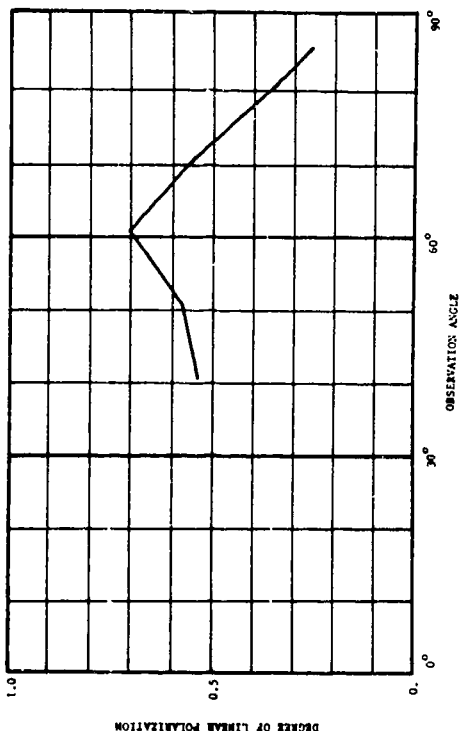
*813864-076 Semigloss Marine Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ASPB CED CN DDMC DFD UK ECB

PARAMETER INFORMATION

DATE= 11-80 TIME= 14-00 LAT= 0 LONG= 0
DAYS RE= 01-80 IAS= 00 ALT= 180 RANGE= 180
OBS= 01-80 WIND SP= 0 WIND DIR= 0 IIR= E
TEMP= 01-80 DEN FT= 0 N AVE= 1 WIND DIR= 0 VIS= 0
LAMBDA= 0.70



CONFIDENTIAL

CONFIDENTIAL

AEM 28

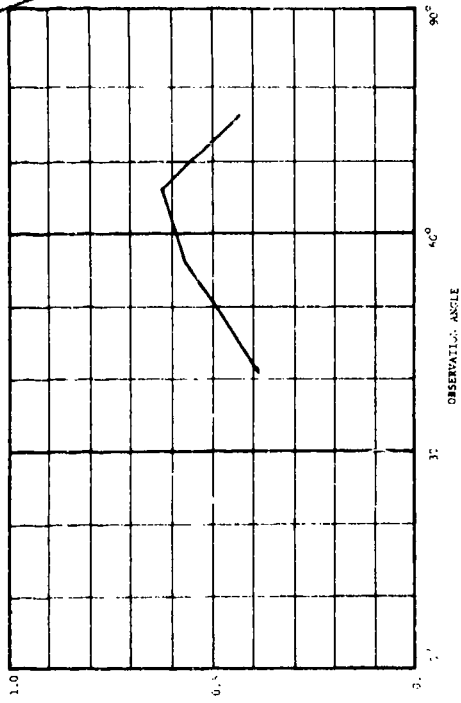
*81384-096 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADBG CUD CN DDMC DFD DK ECB

PARAMETER INFORMATION

DATE- TIME- LAT- LONG- ALT- RANGE-
DAYS RE- 14-60 14-60 180 180
OBS- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180



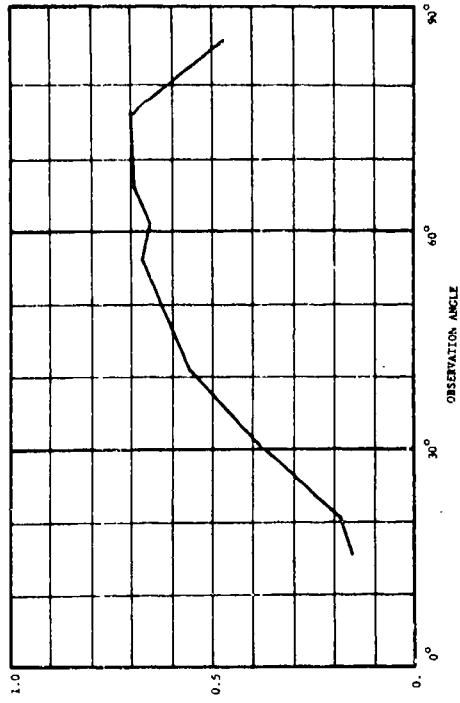
*81384-096 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADBG CUD CN DDMC DFD DK ECB

PARAMETER INFORMATION

DATE- TIME- LAT- LONG- ALT- RANGE-
DAYS RE- 14-60 14-60 180 180
OBS- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180



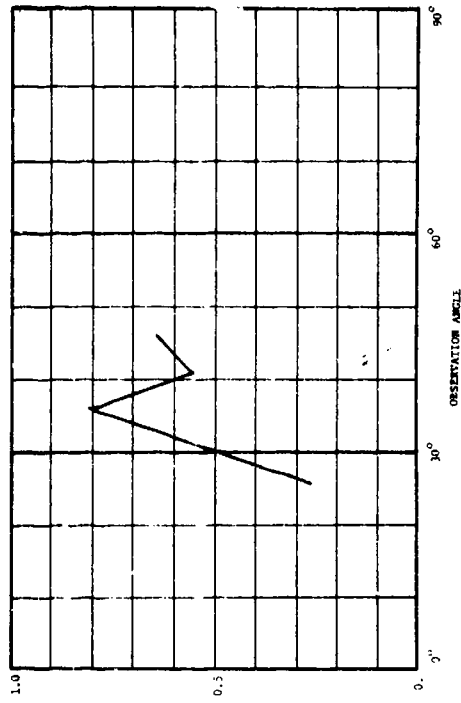
*81384-095 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADBG CUD CN DDMC DFD DK ECB

PARAMETER INFORMATION

DATE- TIME- LAT- LONG- ALT- RANGE-
DAYS RE- 14-60 14-60 180 180
OBS- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180



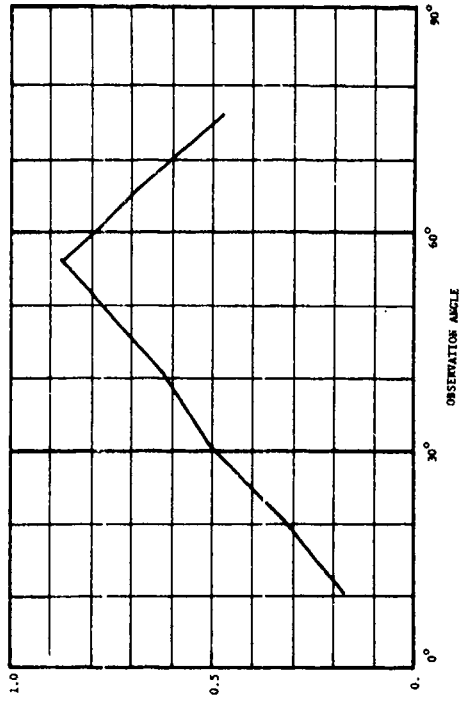
*81384-097 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADBG CUD CN DDMC DFD DK ECB

PARAMETER INFORMATION

DATE- TIME- LAT- LONG- ALT- RANGE-
DAYS RE- 14-60 14-60 180 180
OBS- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180
TIME- DEN PT- 14-60 14-60 180 180



CONFIDENTIAL

CONFIDENTIAL

ARM 20

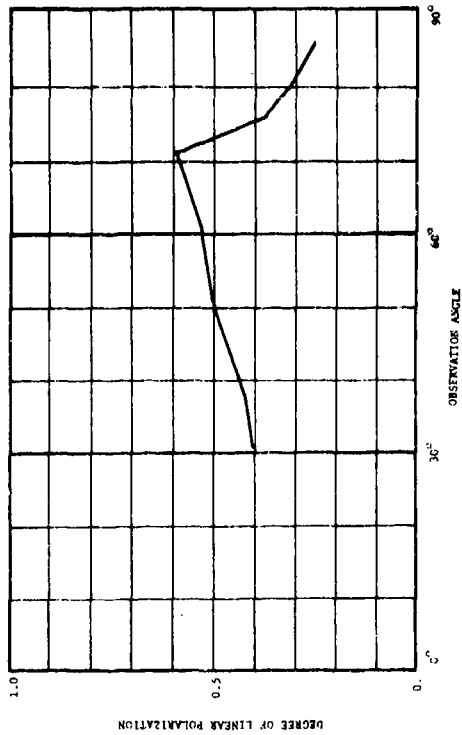
*813864-100 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADMB CED CM DDMC DFD DK ECH

PARAMETER INFORMATION

DATE- TIME-
DAYS RE- IN-60
OBS- ITDR-
TEMP- DEN PT-
LAT- 0
EAS- 0
WIND SP-
N AVE- 1
LONG-
CM-
WIND DI-
LAMBDA- .706
ALT-
CAS- 180
CLD-
RANGE-
IRP- E
VIS-



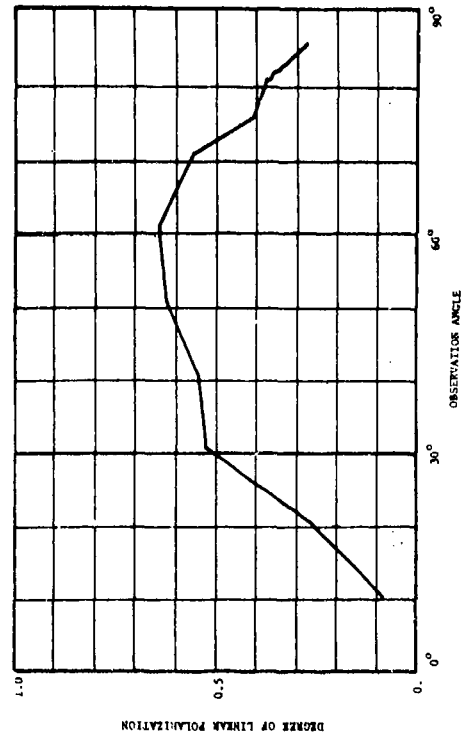
*813864-102 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADMB CED CM DDMC DFD DK ECH

PARAMETER INFORMATION

DATE- TIME-
DAYS RE- IN-60
OBS- ITDR-
TEMP- DEN PT-
LAT- 0
EAS- 0
WIND SP-
N AVE- 1
LONG-
CM-
WIND DI-
LAMBDA- .544
ALT-
CAS- 180
CLD-
RANGE-
IRP- E
VIS-



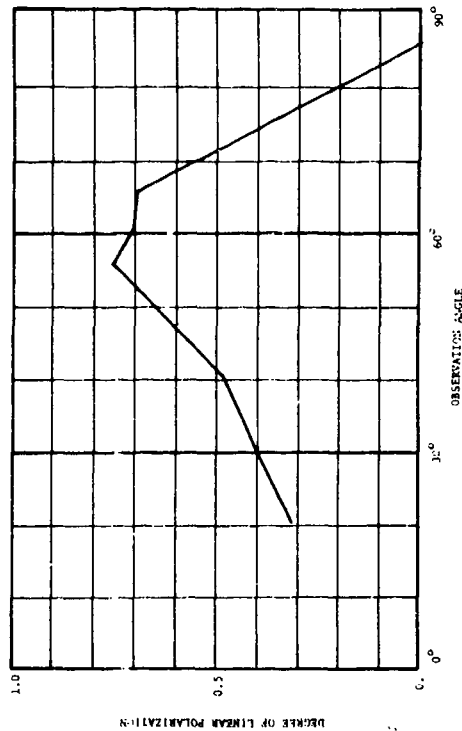
*813864-099 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADMB CED CM DDMC DFD DK ECH

PARAMETER INFORMATION

DATE- TIME-
DAYS RE- IN-60
OBS- ITDR-
TEMP- DEN PT-
LAT- 0
EAS- 0
WIND SP-
N AVE- 1
LONG-
CM-
WIND DI-
LAMBDA- .86
ALT-
CAS- 180
CLD-
RANGE-
IRP- E
VIS-



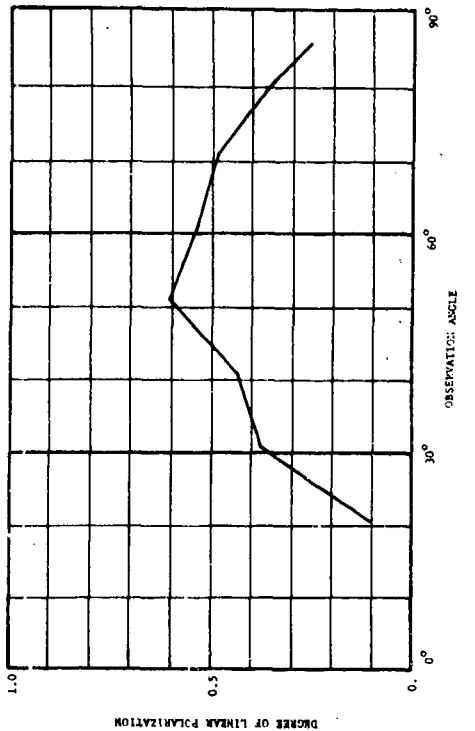
*813864-101 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

ADMB CED CM DDMC DFD DK ECH

PARAMETER INFORMATION

DATE- TIME-
DAYS RE- IN-60
OBS- ITDR-
TEMP- DEN PT-
LAT- 0
EAS- 0
WIND SP-
N AVE- 1
LONG-
CM-
WIND DI-
LAMBDA- .656
ALT-
CAS- 180
CLD-
RANGE-
IRP- E
VIS-



CONFIDENTIAL

CONFIDENTIAL

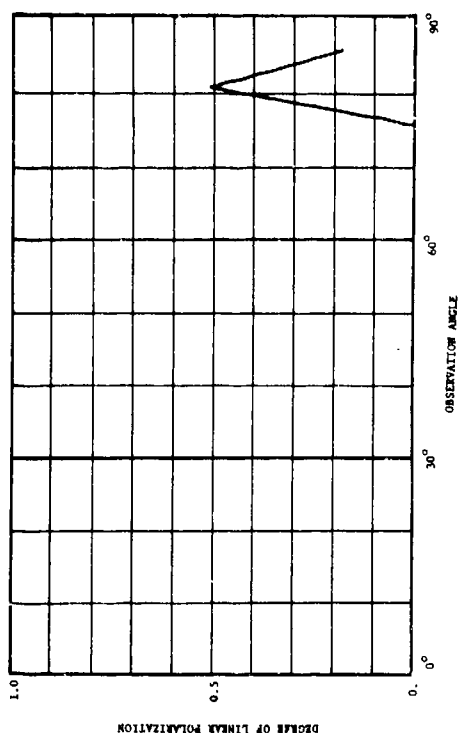
• B13864--104
Camouflage Green Paint. (CONFIDENTIAL)

213864-103 Camouflage Green Paint. (CONFIDENTIAL)

SUBJECT CODES

CM	DOMC	DFTD	DE	ECB
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PARAMETER INFORMATION		LAT=	LONG=	RADT=
DATE=	TIME=	LAX= 0	CN=	IR= E
DAYS RE=	13-80	WIND DIR=	CAS= 180	VIS=
OBS=	TEMP=	WIND SP=	CLD=	
TIME=	DEW PT=	M AVE= 1		.623

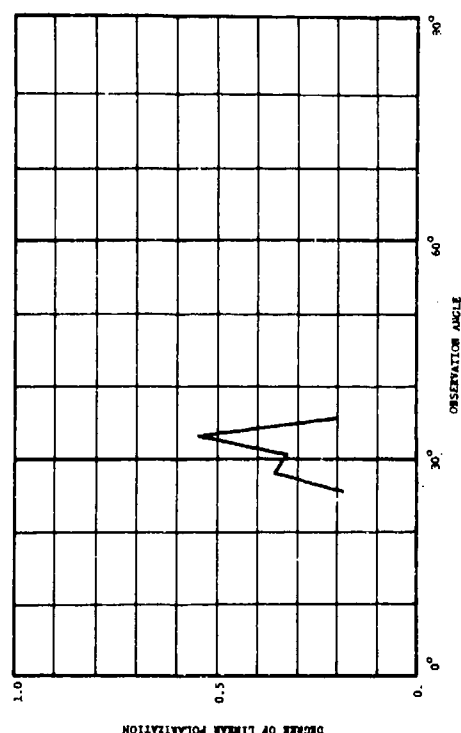


• A13864-106 Glossy Olive Drab Paint. (CONFIDENTIAL.)

SUBJECT CODES

I	CZD	CH	EDAC	DPD	DM	ECB
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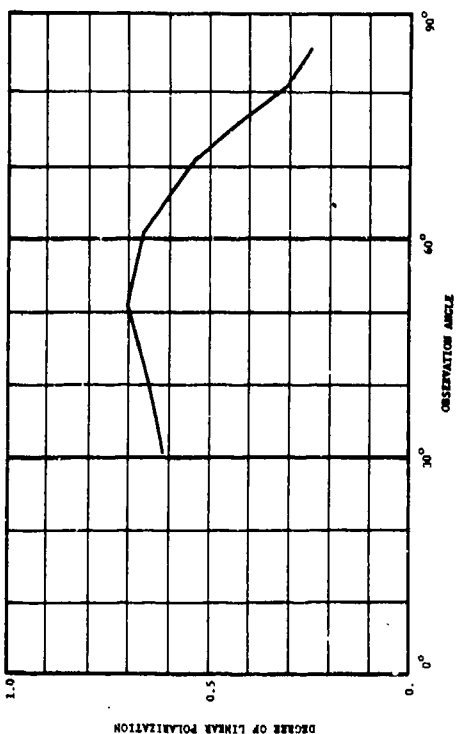
PARAMETER INFORMATION					
DAYS	TIDB=	LAT=	LONG=	ALT=	RANGE=
HOURS	TIDB-30	LATZ= 0	CN=	CAD= 180	TIR= 1
OBSERVATION	TIDB SP	UTIME D=	UTIME D=	CED=	VIS=
TIME	DEM PT=	N AVE= 1	LAMPDA= .656		



SUBJECT CODES

CM	DGAC	DPD	DK	LCB
----	------	-----	----	-----

PARAMETER INFORMATION		PARAMETER	
DATE=	TIME=	LONG=	RANGE=
DAYS BE=	14-80	LAT=	ALT=
COST=	TIME=	L2=	CAL= 180
TIME=	END ST=	USED D1=	IR= 2
	END FT=	LAUNCH=	VIS=
			4.86

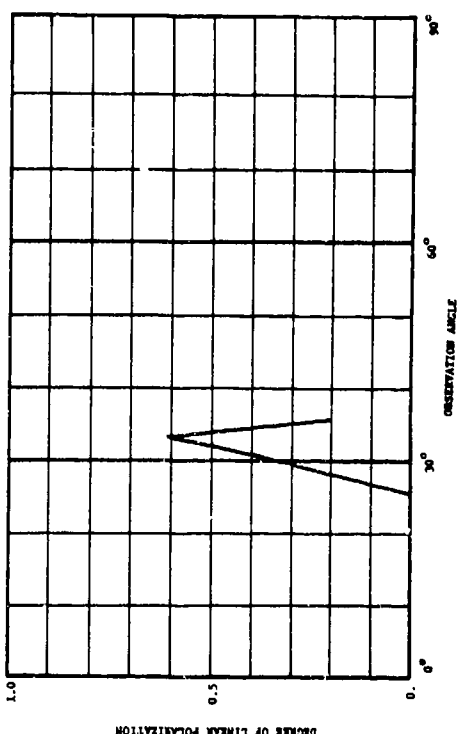


* H13864-105 Closely Olive Drab Paint. (CONFIDENTIAL)

SUBJECT CODES

I	CED	CM	DOSC	DWD	HK	KCJ
---	-----	----	------	-----	----	-----

PARAMETER INFORMATION					
DATE=	TIME=	LAT=	LONG=	ALT=	RANGE=
DAYS HZ=	IM-30	LAT-0	CN-	CAL-180	HIS- E
OBS=	UTDR ST=	WIND ST=		CID=	VIS- E
TEMP=	DEW PT=	# ATTS= 1	LAWSR= .706		



CONFIDENTIAL

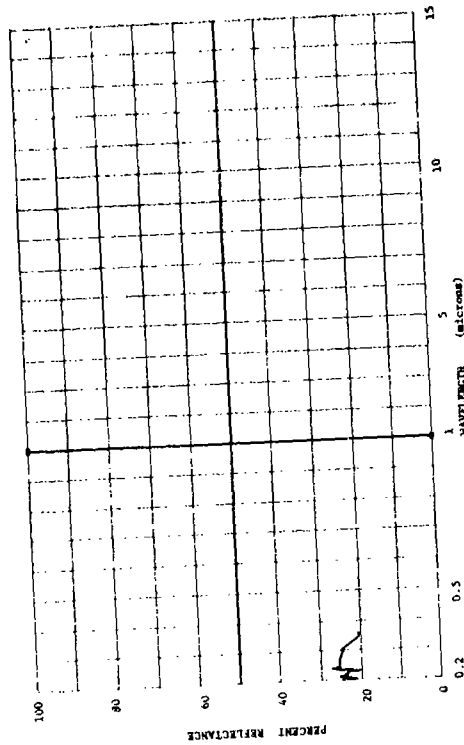
SECRET

ARM 33

• B13944-023 Steel Finished With Olive Drab Iridate, Specular. (SECRET)

SUBJECT CODES ADDB ECBB1 AEL CDC CED DPA DPCD DK ECAD ECAD

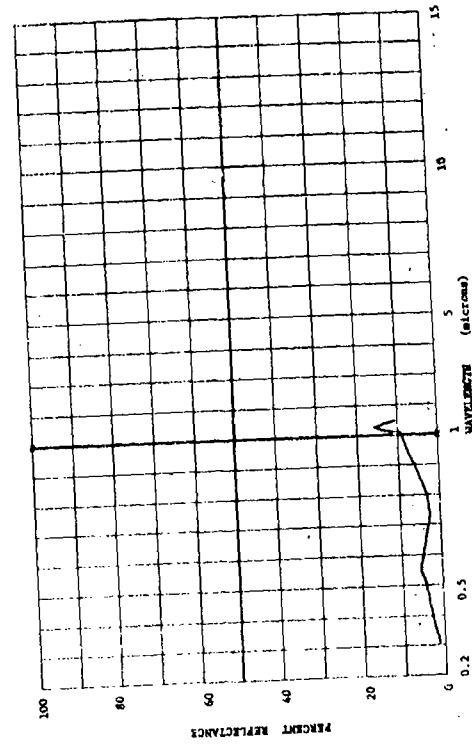
PARAMETER INFORMATION
DATE= 64 TIME= 1200
DAYS RE= 1000
OBS= 1000
TEMP= 1000
LAT= 1200
LON= 1200
WIND DI= 1200
WIND SP= 1200
N AVE= 1200
RANGE= 1200
ALT= 1200
CAL= 1200
CLD= 1200
VIS= 1200



• B13946-030 Tank Metal, Olive Drab, Dry. (SECRET)

SUBJECT CODES ADDB ECBB1 AEL CD CEC DPA DPCD DK ECAD ECAD

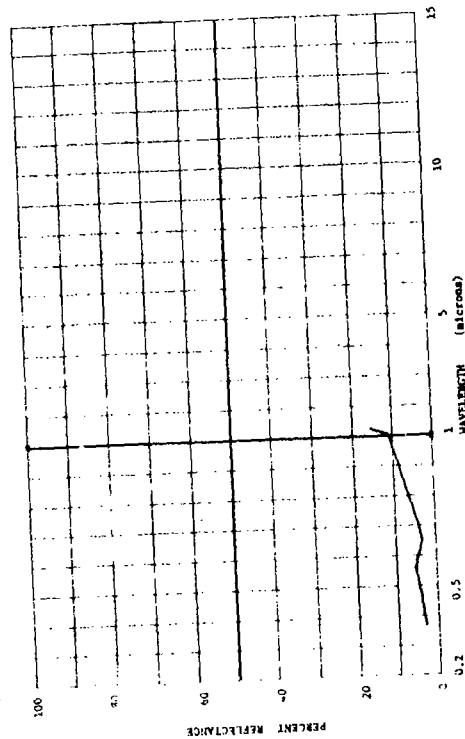
PARAMETER INFORMATION
DATE= 64 TIME= 1200
DAYS RE= 1000
OBS= 1000
TEMP= 1000
LAT= 1200
LON= 1200
WIND DI= 1200
WIND SP= 1200
N AVE= 1200
RANGE= 1200
ALT= 1200
CAL= 1200
CLD= 1200
VIS= 1200



• B13946-009 Tank Metal, Olive Drab, Dry. (SECRET)

SUBJECT CODES ADDB ECBB1 AEL CD CEC DPA DPCD DK ECAD ECAD

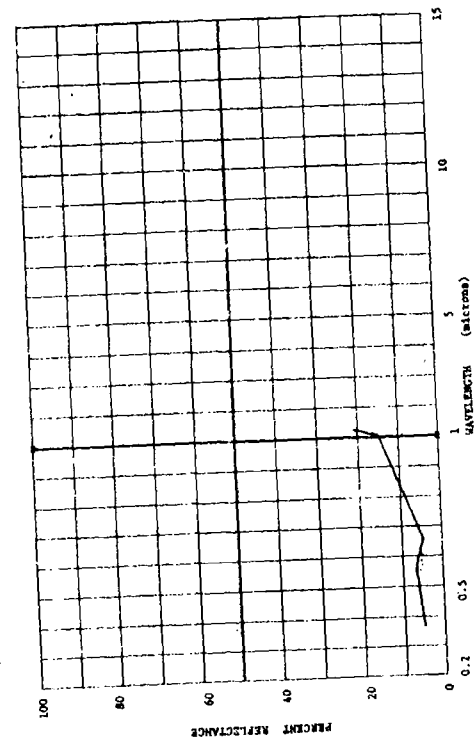
PARAMETER INFORMATION
DATE= 64 TIME= 1200
DAYS RE= 1000
OBS= 1000
TEMP= 1000
LAT= 1200
LON= 1200
WIND DI= 1200
WIND SP= 1200
N AVE= 1200
RANGE= 1200
ALT= 1200
CAL= 1200
CLD= 1200
VIS= 1200



• B13946-020 Tank Metal, Olive Drab, Wet and Dirty. (SECRET)

SUBJECT CODES ADDB ECBB1 AEL AEL CD CEC DPA DPCD DK ECAD ECAD

PARAMETER INFORMATION
DATE= 64 TIME= 1200
DAYS RE= 1000
OBS= 1000
TEMP= 1000
LAT= 1200
LON= 1200
WIND DI= 1200
WIND SP= 1200
N AVE= 1200
RANGE= 1200
ALT= 1200
CAL= 1200
CLD= 1200
VIS= 1200



SECRET

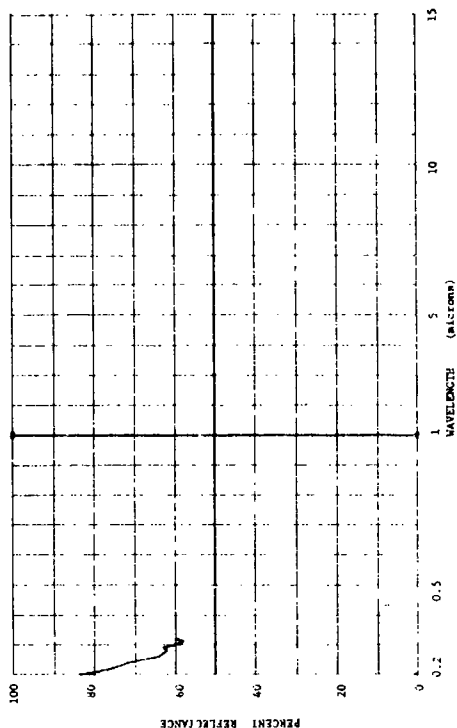
CONFIDENTIAL

AEM 34

*B14004-003 Olive Drab Paint (M1 Std 34127) on Metal. (CONFIDENTIAL)

SUBJECT CODES
AEMB ECMBI AET CDC DPA DPCD DK ECAC ECAD

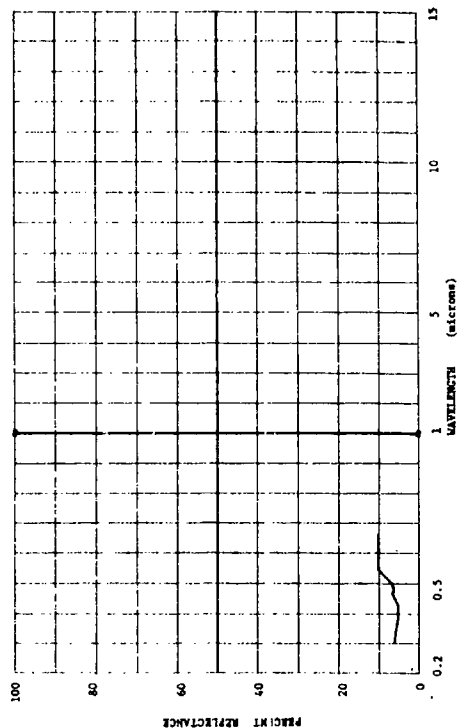
PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- 12m
OBS- TTRP-
TEMP- DEN PT-
WIND SP-
WIND DI-
N AVE- 1
RANGE-
IR- E
VIS-
ALT-
CAZ-
CLD-
WIND DI-
N AVE- 1



*B14004-004 Olive Drab Paint on Wood. (CONFIDENTIAL)

SUBJECT CODES
AEMB ECMBI AET CD DPA DPCD DK ECAC ECAD

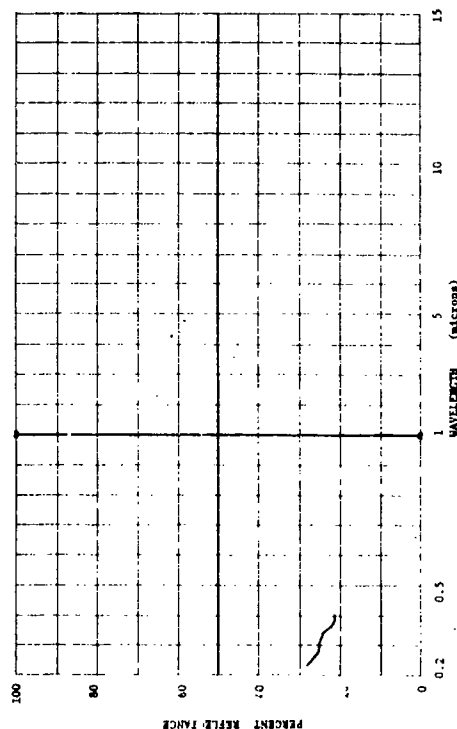
PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- 12m
OBS- TTRP-
TEMP- DEN PT-
WIND SP-
WIND DI-
N AVE- 1
RANGE-
IR- E
VIS-
ALT-
CAZ-
CLD-
WIND DI-
N AVE- 1



*B14004-002 Olive Drab Paint (M1 Std 34127) on Wood. (CONFIDENTIAL)

SUBJECT CODES
AEMB ECMBI AET CDC DPA DPCD DK ECAC ECAD

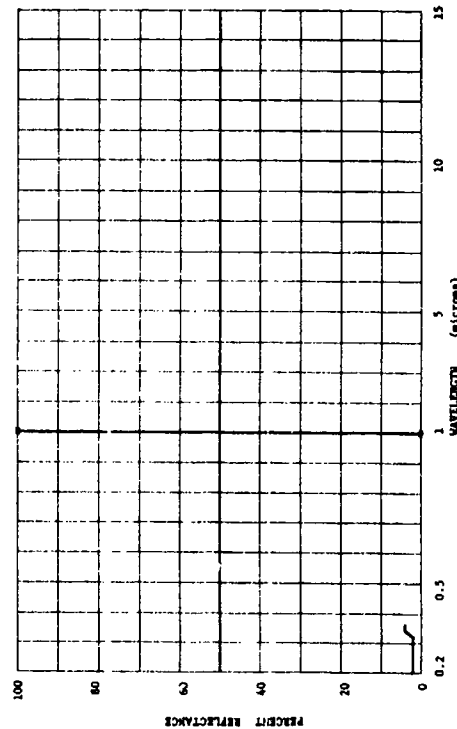
PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- 12m
OBS- TTRP-
TEMP- DEN PT-
WIND SP-
WIND DI-
N AVE- 1
RANGE-
IR- E
VIS-
ALT-
CAZ-
CLD-
WIND DI-
N AVE- 1



*B14004-004 Olive Drab Paint (M1 Std 34127) on Wood. (CONFIDENTIAL)

SUBJECT CODES
AEMB ECMBI AET CDC DPA DPCD DK ECAC ECAD

PARAMETER INFORMATION
DATE- 64 TIME-
DAYS RE- 12m
OBS- TTRP-
TEMP- DEN PT-
WIND SP-
WIND DI-
N AVE- 1
RANGE-
IR- E
VIS-
ALT-
CAZ-
CLD-
WIND DI-
N AVE- 1



CONFIDENTIAL

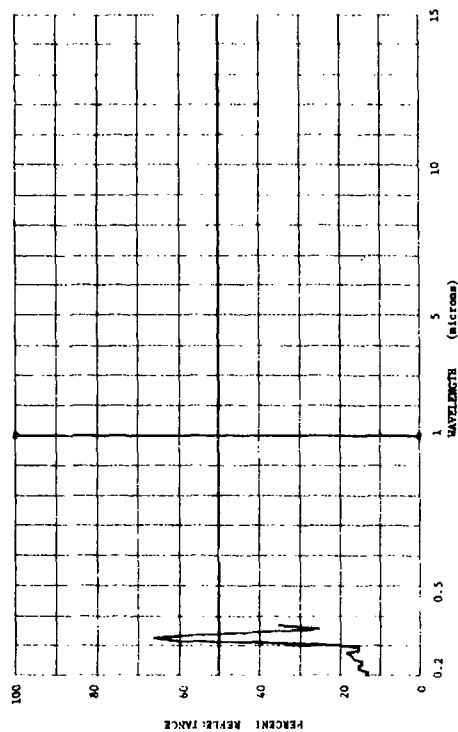
SECRET

AEM 36

* B13946-022 Steel Finished With Gold Iridite, Specular. (SECRET)

SUBJECT CODES
ADND AEL CDC CED DFAD DFED DK EOCAC ECAD

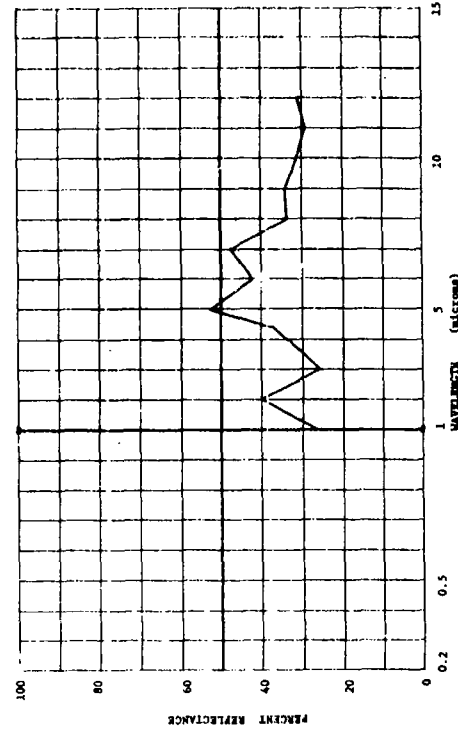
PARAMETER INFORMATION
DATE- 64 TIME-
DATA- 142- IM- LONG-
DATA- 142- CM- ALT-
DATA- 142- WIND SP- CAC-
DATA- 142- WIND DI- CID-
DATA- 142- N AVE- 1



* B13501-011 High Temperature Aluminum Paint, Aluminum, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADND AEL CDC CED DFAD DMG EOCB EOCB EOCB EOCB

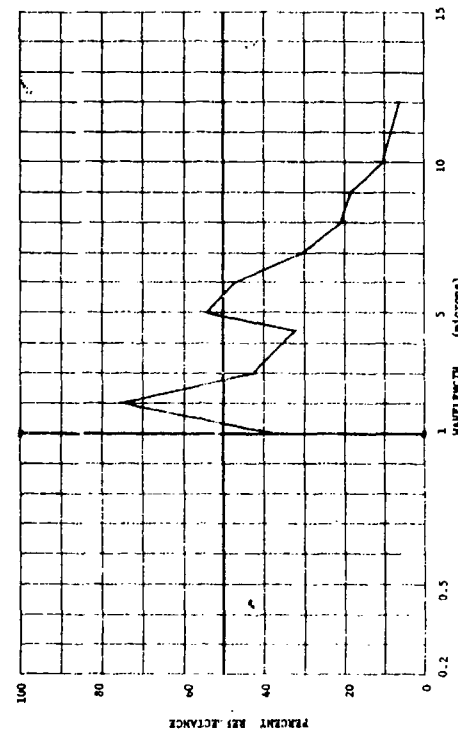
PARAMETER INFORMATION
DATE- 55 TIME-
DATA- 142- IM- LONG-
DATA- 142- CM- ALT-
DATA- 142- WIND SP- CAC-
DATA- 142- WIND DI- CID-
DATA- 142- N AVE- 1



* B13501-008 Lacquer, White, On Mild Steel, Full Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADND AEL CDC CED DFAD DMG EOCB EOCB EOCB EOCB

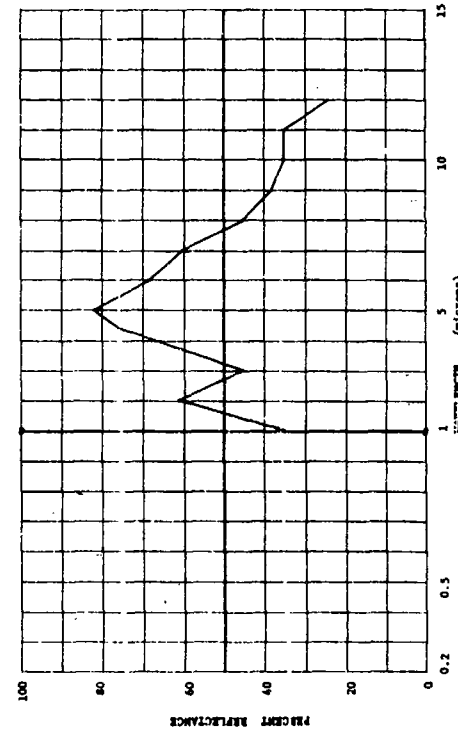
PARAMETER INFORMATION
DATE- 55 TIME-
DATA- 142- IM- LONG-
DATA- 142- CM- ALT-
DATA- 142- WIND SP- CAC-
DATA- 142- WIND DI- CID-
DATA- 142- N AVE- 1



* B13501-010 High Temperature Aluminum Paint, Aluminum, On Mild Steel, Semi-Gloss. (CONFIDENTIAL)

SUBJECT CODES
ADND AEL CDC CED DFAD DMG EOCB EOCB EOCB EOCB

PARAMETER INFORMATION
DATE- 55 TIME-
DATA- 142- IM- LONG-
DATA- 142- CM- ALT-
DATA- 142- WIND SP- CAC-
DATA- 142- WIND DI- CID-
DATA- 142- N AVE- 1



SECRET

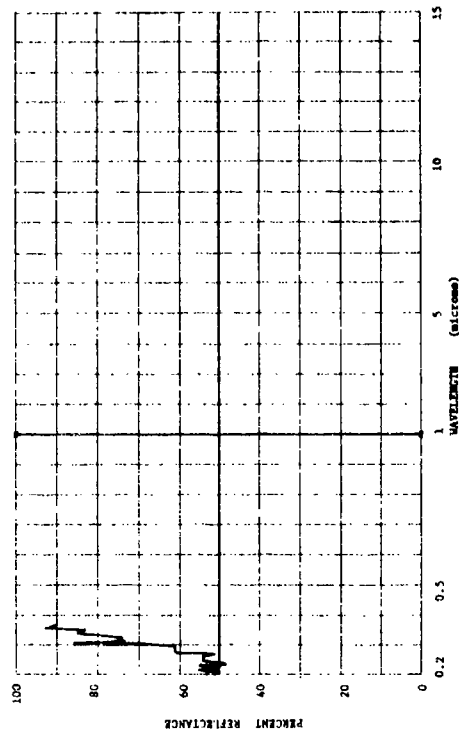
SECRET

AEM 37

* B13946-021 Steel Finished With Clear Iridite, Specular. (SECRET)

SUBJECT CODES
AEMF AEL CDC CED DFPA DPCD DK ECAC ECAD

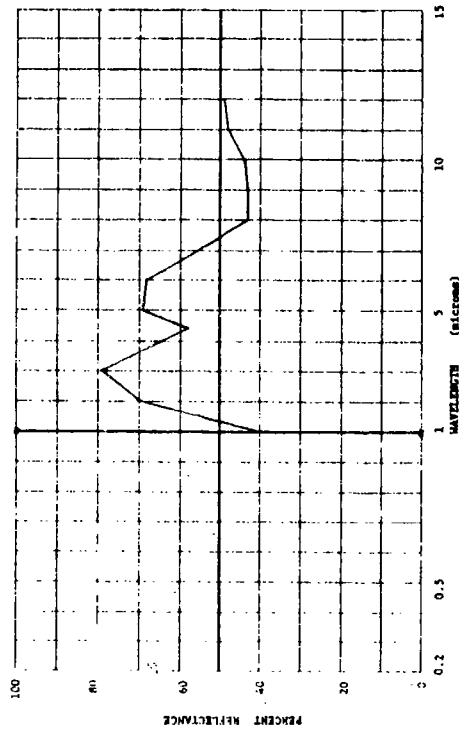
PARAMETER INFORMATION
DATE= 84 TIME= LINC= ALT= NAME= E
TIME= 1000= WIND SP= WIND DI= CUB= VIS=



* B13901-012 Aluminum Examel, Aluminum, Un Mild Steel, Full Gloss. (CONFIDENTIAL)

SUBJECT CODES
AEMFA AEL CDC CED DFPA DMC ECCA ECCB ECCD ECCF

PARAMETER INFORMATION
DATE= 55 TIME= LINC= ALT= NAME= E
TIME= 1000= WIND SP= WIND DI= CUB= VIS=



SECRET

AEO
TARGET MATERIALS
Plastic

CONFIDENTIAL

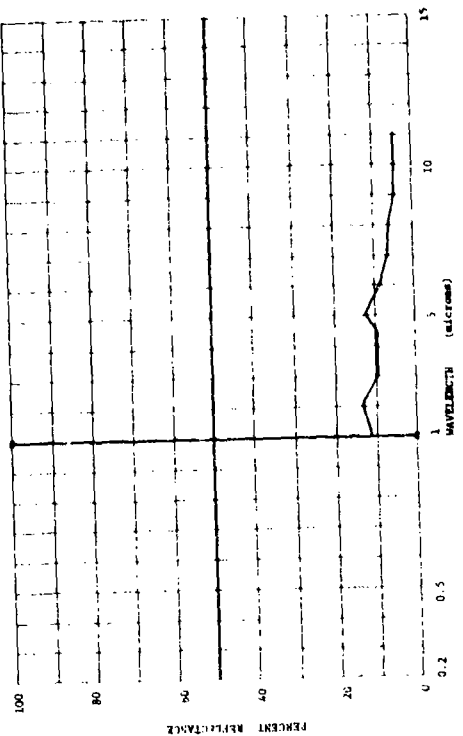
AEO 2

*B13501-040 Vinyl, Olive Drab, On Cotton, Coarse Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEO ECBBI CDC CED DFPA DMC ECCA ECCB ECCD
ECCF

PARAMETER INFORMATION
DATE= 55 TIME= 10:00
DAYS RE= 10-11-60
OBS= 11-11-60
TIME= 11:00
DEN PT= 1

RANGE= 5
ALT= 5
CLD= 5
WIND DI= 5
WIND SP= 5
N AVE= 1

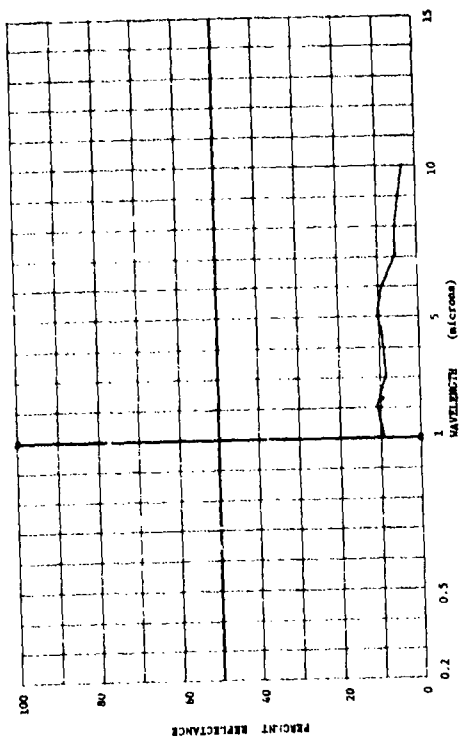


*B13501-072 Vinyl, Black, On Glass Cloth, Medium Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEO ECBBI CDC CED DFPA DMC ECCA ECCB ECCD
ECCF

PARAMETER INFORMATION
DATE= 55 TIME= 10:00
DAYS RE= 10-11-60
OBS= 11-11-60
TIME= 11:00
DEN PT= 1

RANGE= 5
ALT= 5
CLD= 5
WIND DI= 5
WIND SP= 5
N AVE= 1

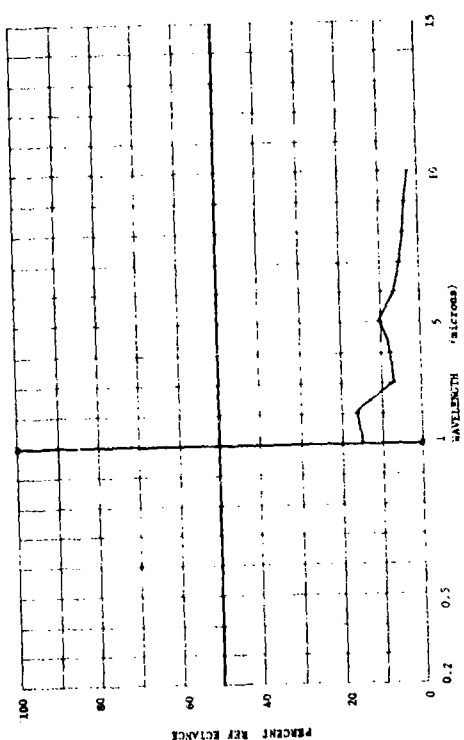


*B13501-059 Vinyl, Olive Drab, On Cotton, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEO ECBBI CDC CED DFPA DMC ECCA ECCB ECCD
ECCF

PARAMETER INFORMATION
DATE= 55 TIME= 10:00
DAYS RE= 10-11-60
OBS= 11-11-60
TIME= 11:00
DEN PT= 1

RANGE= 5
ALT= 5
CLD= 5
WIND DI= 5
WIND SP= 5
N AVE= 1

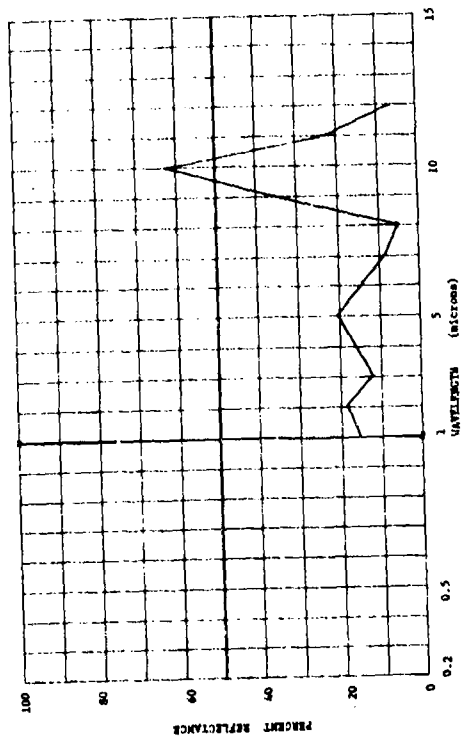


*B13501-070 Sillicone, Grey, On Cotton, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEO ECBBI CDC CED DFPA DMC ECCA ECCB ECCD
ECCF

PARAMETER INFORMATION
DATE= 55 TIME= 10:00
DAYS RE= 10-11-60
OBS= 11-11-60
TIME= 11:00
DEN PT= 1

RANGE= 5
ALT= 5
CLD= 5
WIND DI= 5
WIND SP= 5
N AVE= 1



CONFIDENTIAL

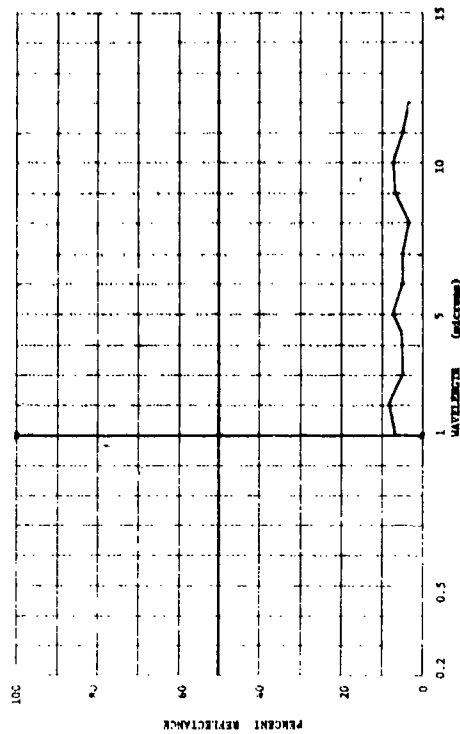
AEP
TARGET MATERIALS
Rubber

CONFIDENTIAL

ARP 1

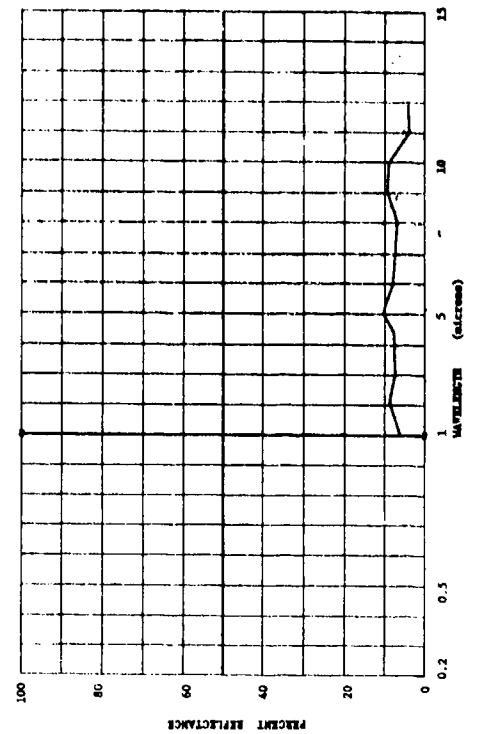
*B13501-032 Neoprene, Non-Specular Blue, On Nylon, Medium Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRBL CDC CED DFPA DEG DECA DECB DECC DECD
ECCF
PARAMETER INFORMATION
DATE= 55 TIME= LAT= LONG= ALT= RANGE= 1000-1
DAYS RE= 12-12-58 IAS= CH= CAS= CLD= VIS= 715-
OBS= TTRP= WIND SP= WIND DI= WIND BI= 715-
TTRP= DEN PT= N AVE= 1



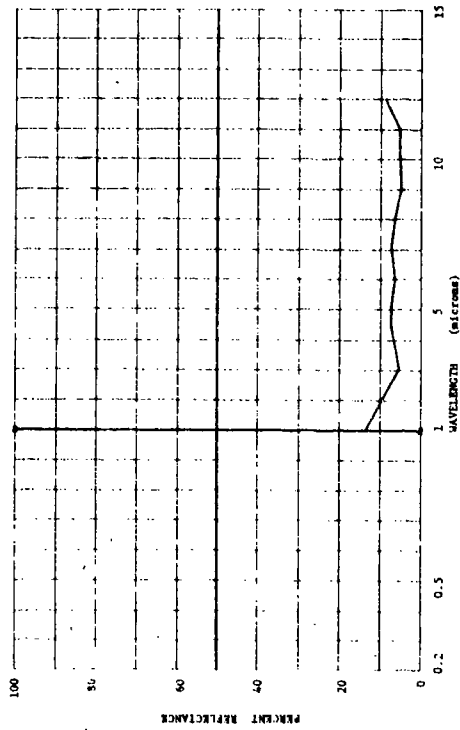
*B13501-034 Neoprene, Black, On Nylon, Coarse Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRBL CDC CED DFPA DEG DECA DECB DECC DECD
ECCF
PARAMETER INFORMATION
DATE= 55 TIME= LAT= LONG= ALT= RANGE= 1000-1
DAYS RE= 12-12-58 IAS= CH= CAS= CLD= VIS= 715-
OBS= TTRP= WIND SP= WIND DI= WIND BI= 715-
TTRP= DEN PT= N AVE= 1



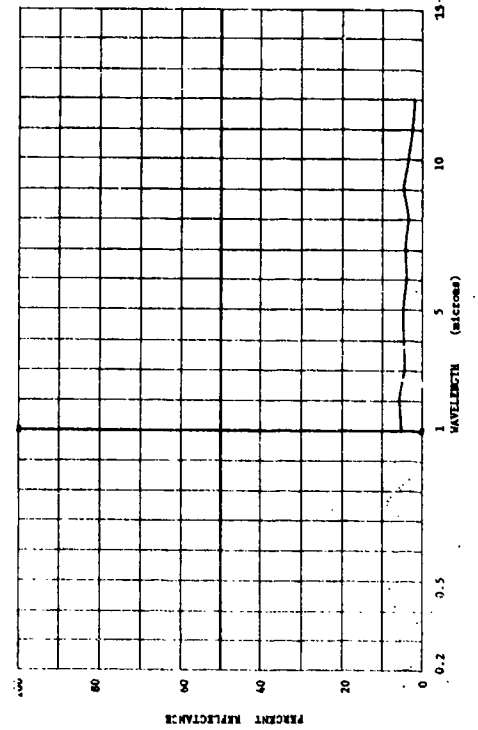
*B13501-050 Neoprene, Olive Erab, On Nylon, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRBL CDC CED DFPA DEG DECA DECB DECC DECD
ECCF
PARAMETER INFORMATION
DATE= 55 TIME= LAT= LONG= ALT= RANGE= 1000-1
DAYS RE= 12-12-58 IAS= CH= CAS= CLD= VIS= 715-
OBS= TTRP= WIND SP= WIND DI= WIND BI= 715-
TTRP= DEN PT= N AVE= 1



*B13501-053 Neoprene, Black, On Nylon, Medium Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRBL CDC CED DFPA DEG DECA DECB DECC DECD
ECCF
PARAMETER INFORMATION
DATE= 55 TIME= LAT= LONG= ALT= RANGE= 1000-1
DAYS RE= 12-12-58 IAS= CH= CAS= CLD= VIS= 715-
OBS= TTRP= WIND SP= WIND DI= WIND BI= 715-
TTRP= DEN PT= N AVE= 1

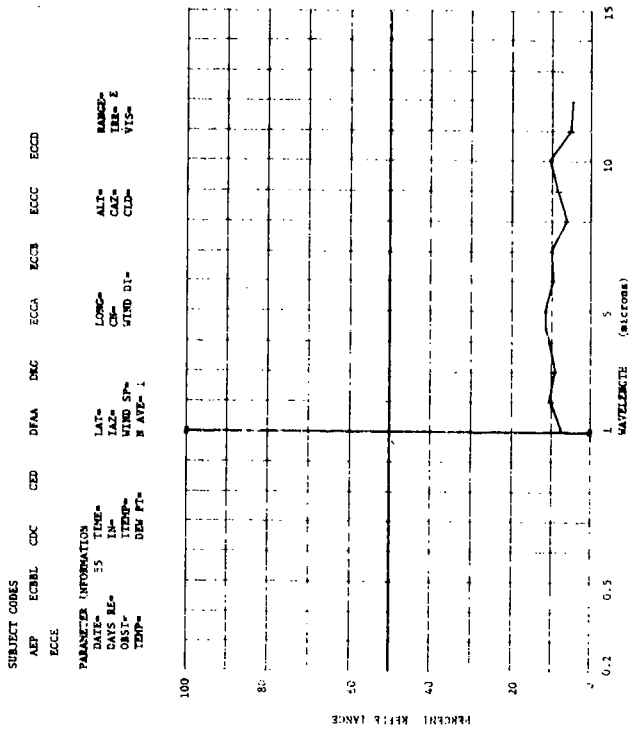


CONFIDENTIAL

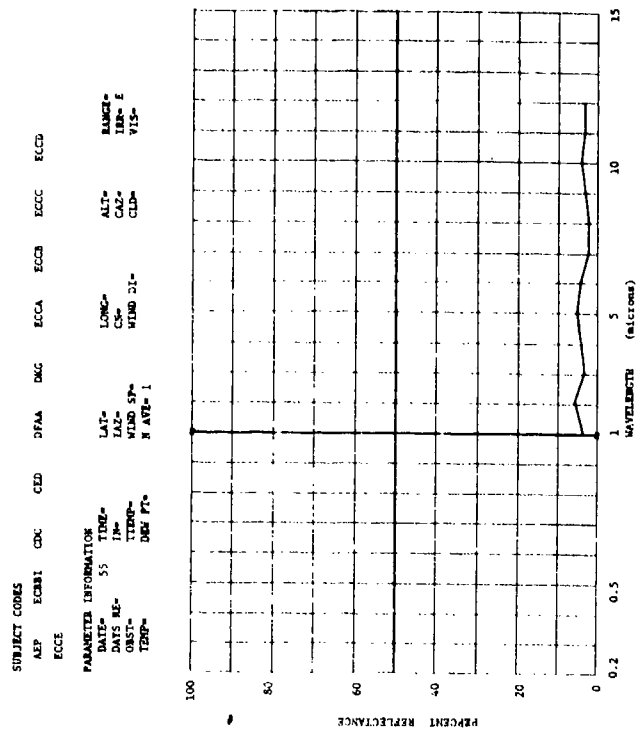
CONFIDENTIAL

AEP 1

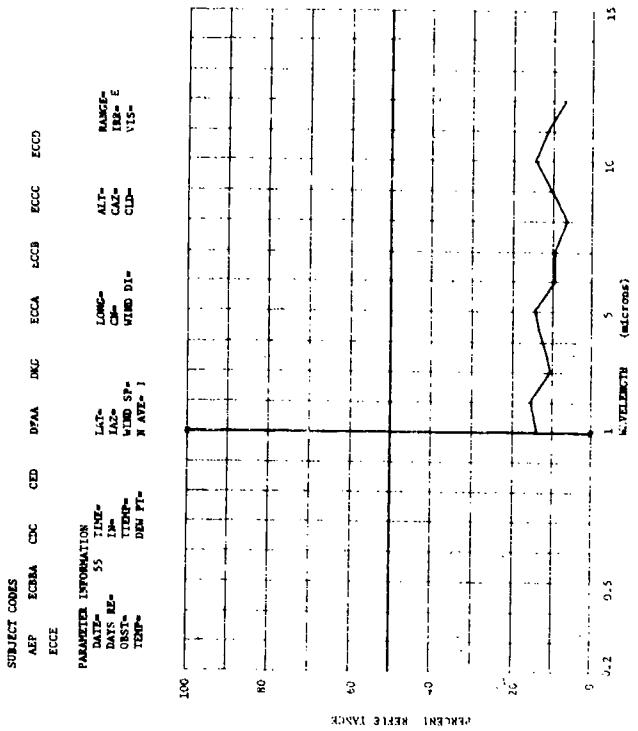
*B13501-056 Buna-N Blue, On Nylon, Fine Cloth Grain. (CONFIDENTIAL)



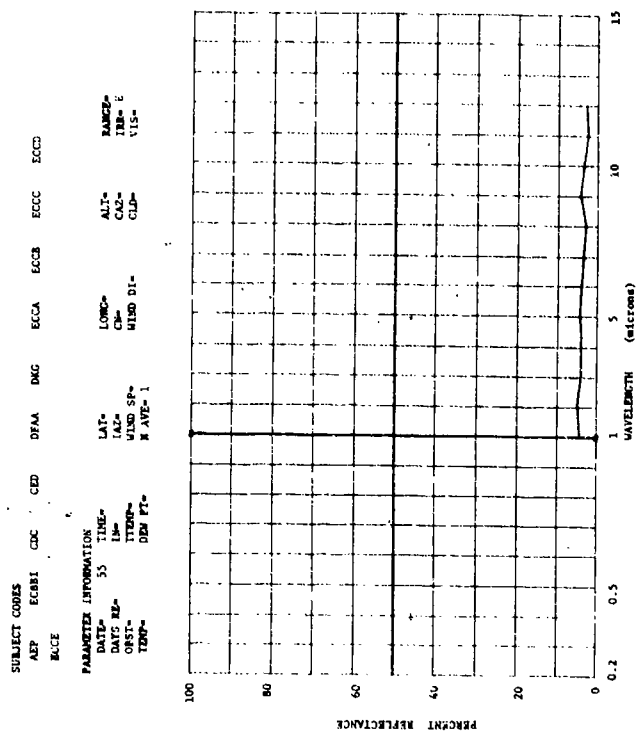
*B13501-058 GR-5, Olive Drab, On Nylon, Medium Cloth Grain. (CONFIDENTIAL)



*B13501-055 Buna-N Blue, On Nylon, Fine Cloth Grain. (CONFIDENTIAL)



*B13501-057 Natural Rubber, Olive Drab, On Nylon, Medium Cloth Grain. (CONFIDENTIAL)



CONFIDENTIAL

CONFIDENTIAL

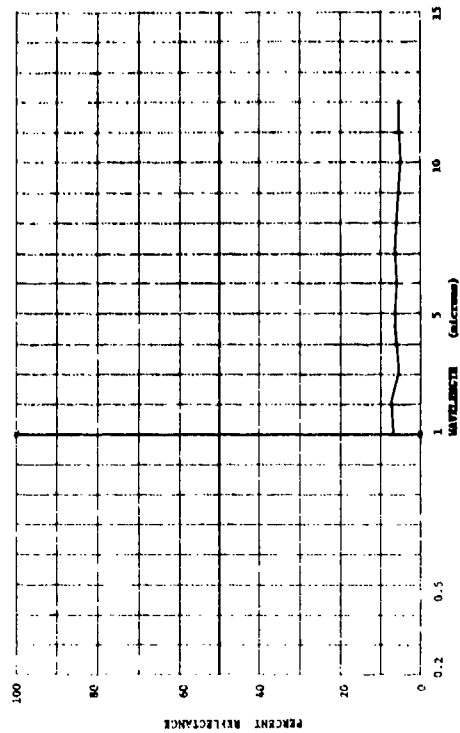
ARP 3

• 813501-043 Neoprene, Black, On Cotton Duck, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRAL CDC CED DFPA ENG EOCB EOCB EOCB EOCB EOCB
ECCZ

PARAMETER INFORMATION
DATE= 55 TIME= 1400-
DAY= 01-10-64
ORST= 1000-00-00
TIME= 1000-00-00
LAT= 34-00-00
LON= 118-00-00
WIND SP= 10
WIND DIR= 090
WAVE= 1

RANGE= 1000-00-00
TID= 1000-00-00
VIS= 1000-00-00

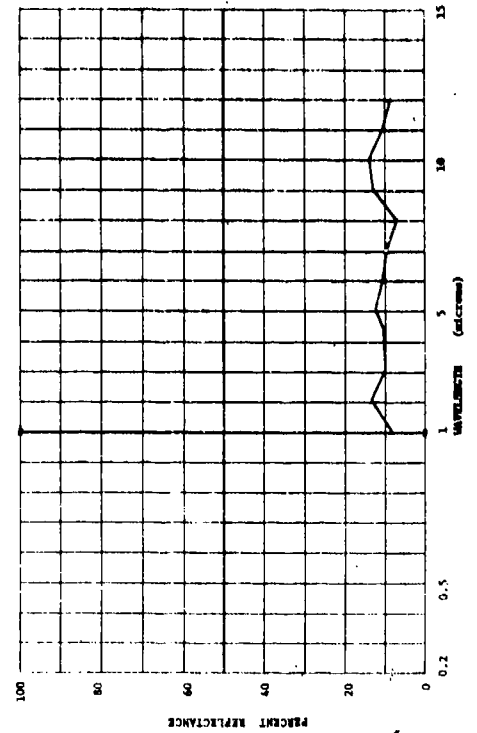


• 813501-044 Neoprene, Black, On Airplane Cloth, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRAL CDC CED DFPA ENG EOCB EOCB EOCB EOCB EOCB
ECCZ

PARAMETER INFORMATION
DATE= 55 TIME= 1400-
DAY= 01-10-64
ORST= 1000-00-00
TIME= 1000-00-00
LAT= 34-00-00
LON= 118-00-00
WIND SP= 10
WIND DIR= 090
WAVE= 1

RANGE= 1000-00-00
TID= 1000-00-00
VIS= 1000-00-00

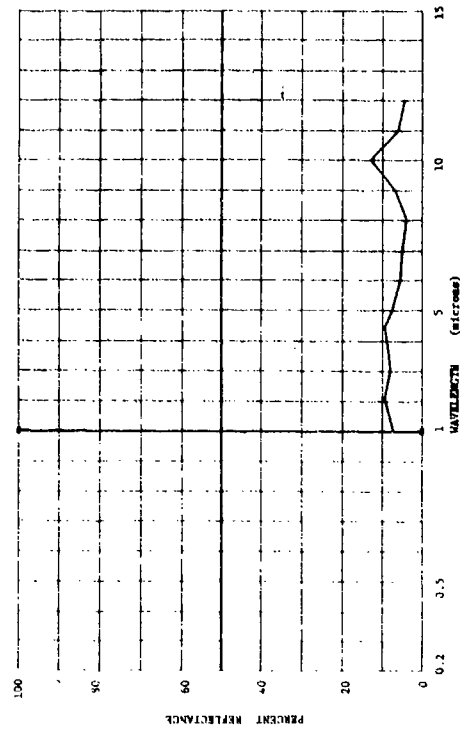


• 813501-042 Neoprene, Black, On Cotton Duck, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRAL CDC CED DFPA ENG EOCB EOCB EOCB EOCB EOCB
ECCZ

PARAMETER INFORMATION
DATE= 55 TIME= 1400-
DAY= 01-10-64
ORST= 1000-00-00
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LAT= 34-00-00
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WAVE= 1

RANGE= 1000-00-00
TID= 1000-00-00
VIS= 1000-00-00

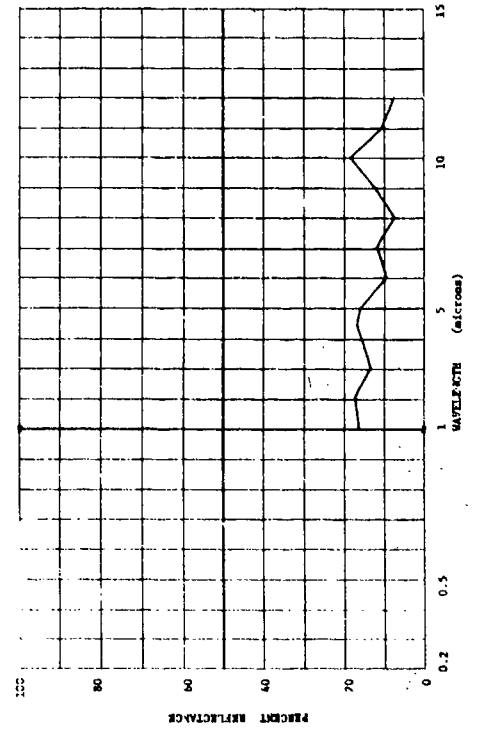


• 813501-044 Neoprene, Black, On Airplane Cloth, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
ARP ECRAL CDC CED DFPA ENG EOCB EOCB EOCB EOCB EOCB
ECCZ

PARAMETER INFORMATION
DATE= 55 TIME= 1400-
DAY= 01-10-64
ORST= 1000-00-00
TIME= 1000-00-00
LAT= 34-00-00
LON= 118-00-00
WIND SP= 10
WIND DIR= 090
WAVE= 1

RANGE= 1000-00-00
TID= 1000-00-00
VIS= 1000-00-00



CONFIDENTIAL

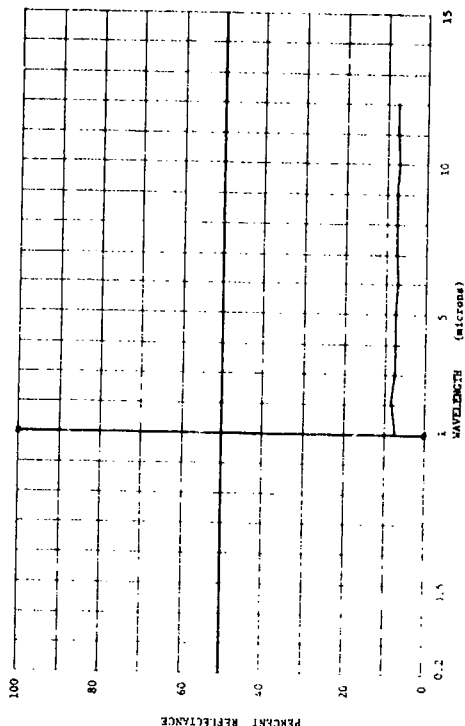
CONFIDENTIAL

AEP 4

*B13501-068 Neoprene, Black, On Balloon Cloth, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEP EC881 CDC CED DFMA DKG ECCA ECCB ECCD
ECCF

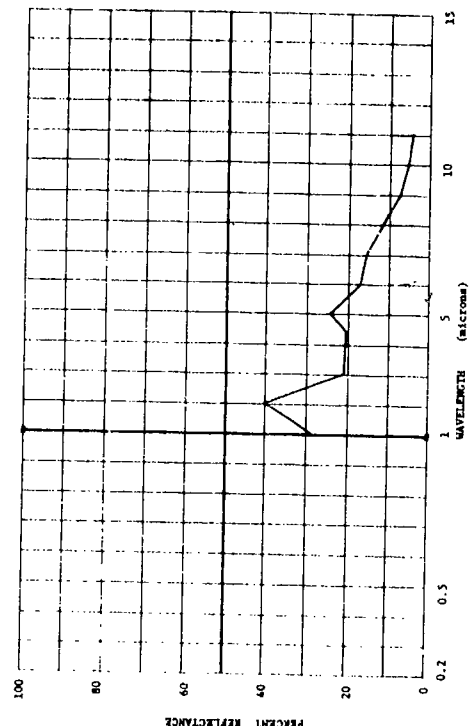
PARAMETER INFORMATION
DATE= 55 TIME= LAT= LONG= ALT= RANGE= 1000-10000
DAYS RE= 10-100 IAS= IAS= CAS= IAS= E
OBS= 10-100 WIND SP= WIND DI= WIND DI= VIS= 1000-10000
TEMP= DEN FT= DEN FT= N AVE= 1



*B13501-071 Vinyl, Green, On Glass Cloth, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEP EC881 CDC CED DFMA DKG ECCA ECCB ECCD
ECCF

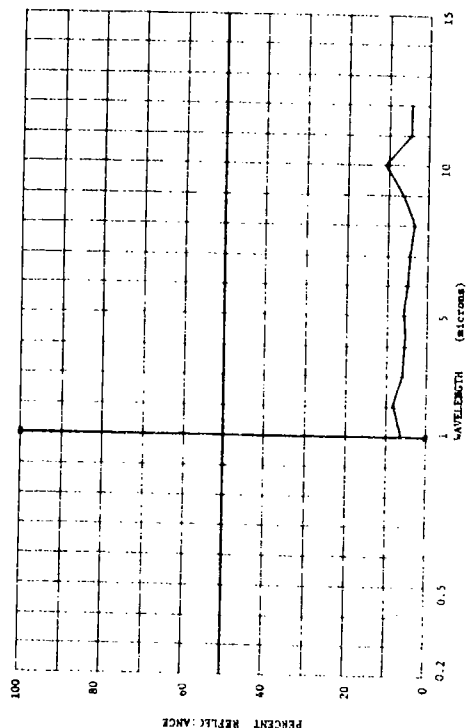
PARAMETER INFORMATION
DATE= 55 TIME= LAT= LONG= ALT= RANGE= 1000-10000
DAYS RE= 10-100 IAS= IAS= CAS= IAS= E
OBS= 10-100 WIND SP= WIND DI= WIND DI= VIS= 1000-10000
TEMP= DEN FT= DEN FT= N AVE= 1



*B13501-067 Neoprene, Black, On Airplane Cloth, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEP EC881 CDC CED DFMA DKG ECCA ECCB ECCD
ECCF

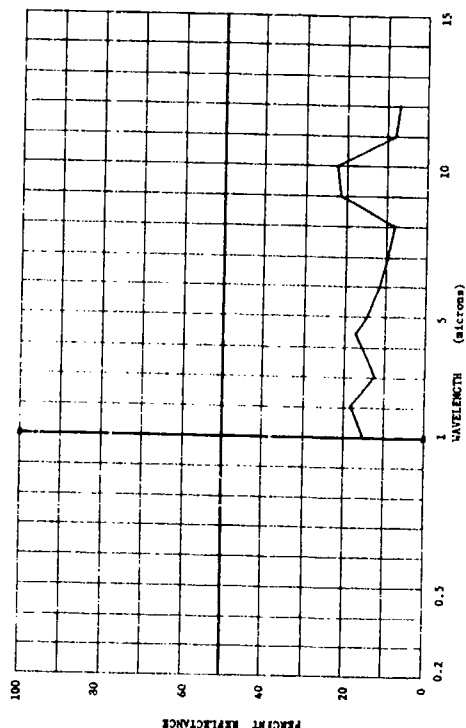
PARAMETER INFORMATION
DATE= 55 TIME= LAT= LONG= ALT= RANGE= 1000-10000
DAYS RE= 10-100 IAS= IAS= CAS= IAS= E
OBS= 10-100 WIND SP= WIND DI= WIND DI= VIS= 1000-10000
TEMP= DEN FT= DEN FT= N AVE= 1



*B13501-069 Butyl Rubber, Olive Drab, On Cotton, Fine Cloth Grain. (CONFIDENTIAL)

SUBJECT CODES
AEP EC881 CDC CED DFMA DKG ECCA ECCB ECCD
ECCF

PARAMETER INFORMATION
DATE= 31 TIME= LAT= LONG= ALT= RANGE= 1000-10000
DAYS RE= 10-100 IAS= IAS= CAS= IAS= E
OBS= 10-100 WIND SP= WIND DI= WIND DI= VIS= 1000-10000
TEMP= DEN FT= DEN FT= N AVE= 1



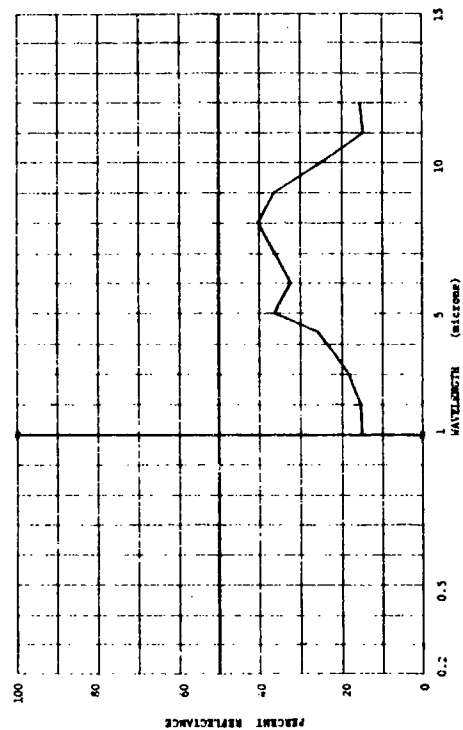
CONFIDENTIAL

CONFIDENTIAL

ARP 5

• B11501-089 Rubber Track Block, Black, Smooth. (CONFIDENTIAL)

SUBJECT CODES
ARP EGBL CMC CSD DEFA DSG EACA EGBB EGCC EGCD
EGCE
PARAMETER INFORMATION
DATE- 55 TIME-
DAYS RP- 14-
OBS- TIME-
TIME- DMT FT-
LAT- LONG- ALT-
TAS- CR- CAL-
WIND SP- WIND DI- CDS-
S AVE- 1 VIS-



CONFIDENTIAL

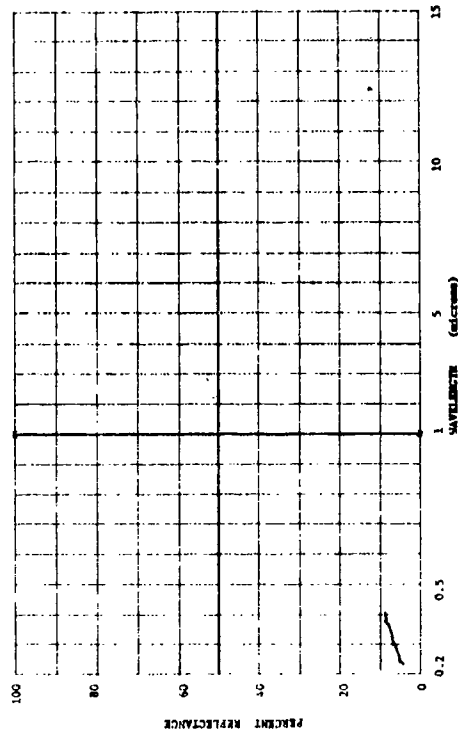
AEQ
TARGET MATERIALS
Tar

SECRET

ABQ 1

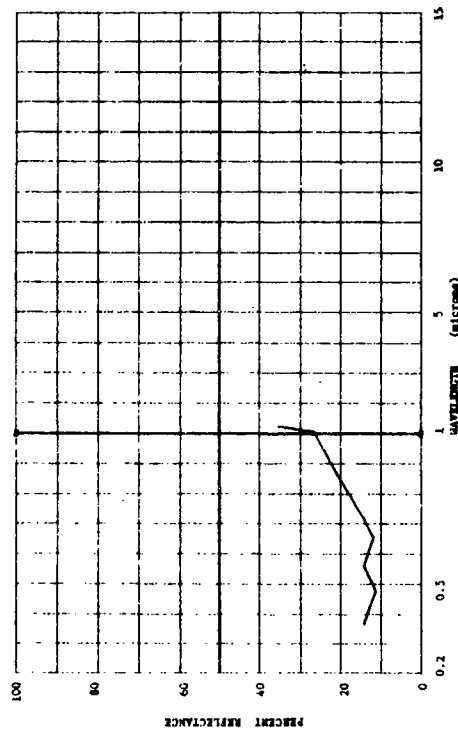
• B14004-010 Tar-Sand Surface. (CONFIDENTIAL)

SUBJECT CODES
ABQ BPCA CDC CDD DPA DPC DE ECAD ECD
PARAMETER INFORMATION
DATE= 64 TIME= 1400
DATE RE= 1400
ORST= 1400
TEMP= 1400
LAT= 34 N
LON= 114 W
ALT= 114 E
CAS= 114 E
CLD= 114 E
VLS= 114 E
WIND DI= 114 E
WIND SP= 114 E
WIND PT= 114 E



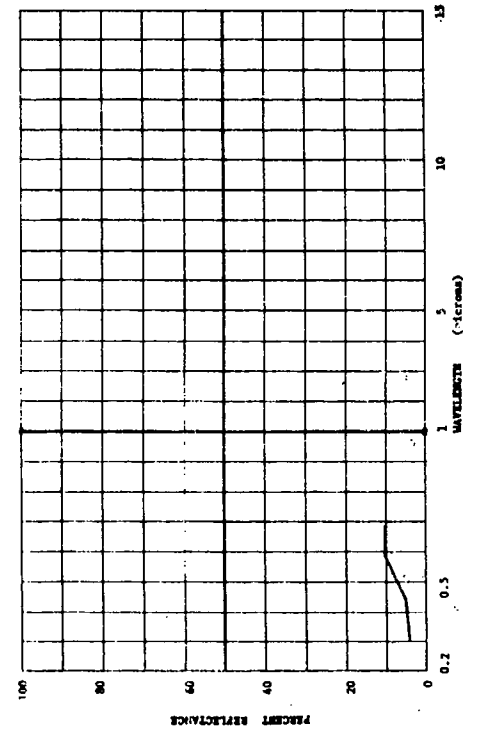
• B14004-003 Tar and Gravel, Dry. (SECRET)

SUBJECT CODES
ABQ BPCA CDC CDD DPA DPC DE ECAD ECD
PARAMETER INFORMATION
DATE= 64 TIME= 1400
DATE RE= 1400
ORST= 1400
TEMP= 1400
LAT= 34 N
LON= 114 W
ALT= 114 E
CAS= 114 E
CLD= 114 E
VLS= 114 E
WIND DI= 114 E
WIND SP= 114 E
WIND PT= 114 E



• B14004-056 Black Tar Road Bed. (CONFIDENTIAL)

SUBJECT CODES
ABQ BPCA CDC CDD DPA DPC DE ECAD ECD
PARAMETER INFORMATION
DATE= 64 TIME= 1400
DATE RE= 1400
ORST= 1400
TEMP= 1400
LAT= 34 N
LON= 114 W
ALT= 114 E
CAS= 114 E
CLD= 114 E
VLS= 114 E
WIND DI= 114 E
WIND SP= 114 E
WIND PT= 114 E



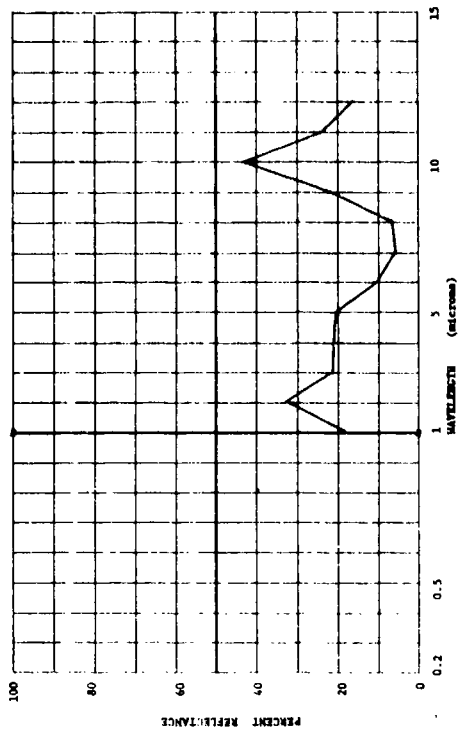
SECRET

AER
TARGET MATERIALS
File

• B13SG1-033 High Temperature Ceramic, Grey, On Mild Steel. Full Close. (CONFIDENTIAL)

SUBJECT CODES									
AFR	ZCHNK	ATL	CDC	CTD	DFAA	DAG	DOCA	EOCB	EOCC
ECOD	EOCI								

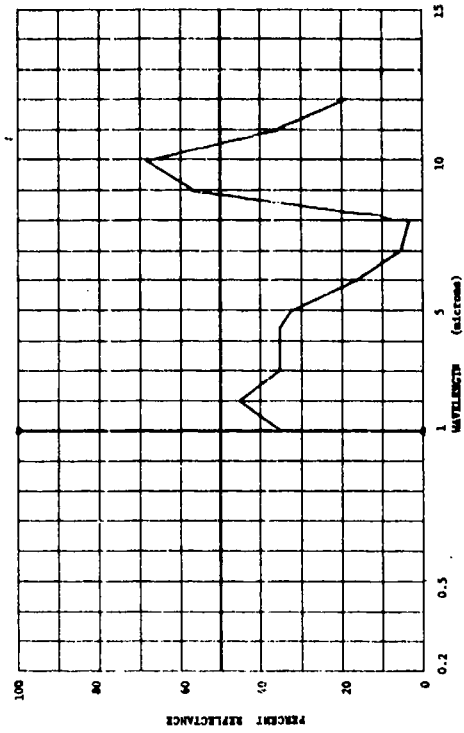
PARAMETER INFORMATION				RANGES			
DATE=	SS	TIME=		ALT=		TIME=	1
DAYS	EL=			CAG=		VLS=	
ORST=	TIME=			CLD=			
TEMP=	DEM	FT=		LONG=			
				CR=		WTNG	DI=
				LAT=			
				LAD=			
				WIND	SP=		
					P	AVE=	1



• 81301-035 High Temperature Ceramic, Dark Blue, On Cold Steel, Full
Gloves. (CONFIDENTIAL)

SUBJECT CODES	ABR	ECERA	ATL	CDC	CHD	DFAA	DEC	BCCA	ECOS	BOCC
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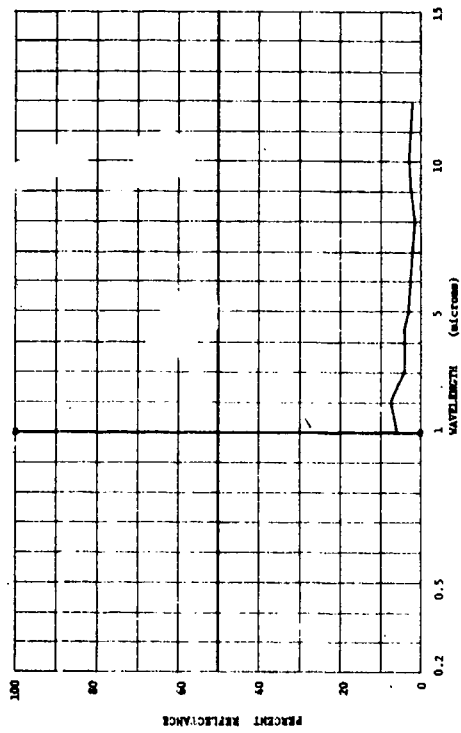
PARAMETER INFORMATION					
DATE=	55	TIME=			
LAT=		DAYS RE=			
LON=		ITEMS=			
CN=		OBS=			
WIND D=		DEGR F=			
WIND S=		DIR FT=			
WIND DI=		S AVE=	1		
AL=					RANGE=
CJZ=					TIME=
CLD=					VLS=



• N13501-032 High Temperature Ceramic, White, On Mild Steel, Matte. (CONFIDENTIAL)

SUBJECT CODES									
AM	ARM	ENR	AEI	CDC	CHD	DPAA	DEG	EGCA	EGCC
EGCC	EGCC	EGCC							

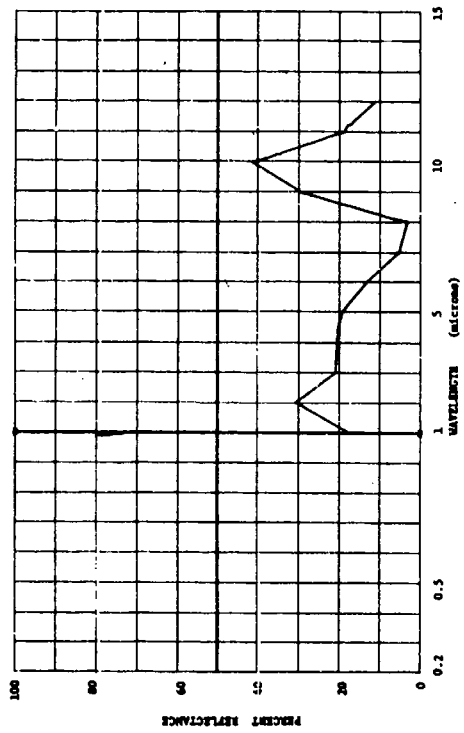
PARAMETER INFORMATION		RANGE=	
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DAYS RE=	18=	ALT=	
CONST=		CAZ=	
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		LONG=	
		CH=	
		WIND D1=	
		LAT=	
		LAZ=	
		WIND SP=	
		N AVG=	1



• H13501-034 High Temperature Ceramic, Black, On Mild Steel, Full Glose. (CONFIDENTIAL)

SUBJECT CODES							
AFR	EC98L	AFI	CDC	CED	DFAA	DEG	EDCA
							EGCB
							EDCC

PARAMETER INFORMATION					
DATE=	SS	TIME=	LAT=	LONG=	RANGE=
DAYS RE=	18-	CBS=	LAS=	CRS=	TER= E
TIME=		TTIME=	VIND SP=	VIND DI=	VIS=
CONST=		DOSE FT=	E AVE=	1	



AET
TARGET MATERIALS
Wood

670-7067111 (COMMUNICATIONS) - ROOM 2100, NEW YORK, NEW YORK

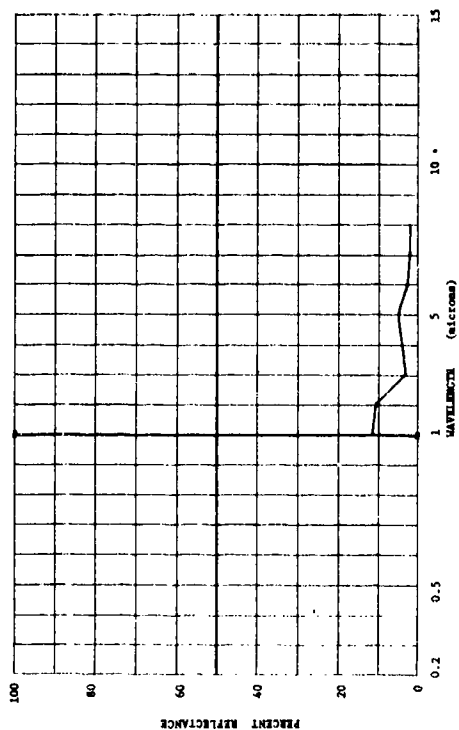
670-706CT1

STUDY OBJECTIVES

AFT CDC CTD DPAA DMG EGCA ECCC ECCC ECCC

PARAMETER INFORMATION

DAYS	SS	TREQ=	LAT=	LONG=	RANGE=
DAYS	RE	IN	CN	CLD=	EDS= Z
OBS=	TREQ=	VTD SP=	VTD DI=	CLD=	VLS=
TREQ=	DEM PT=	# AVG=	I		



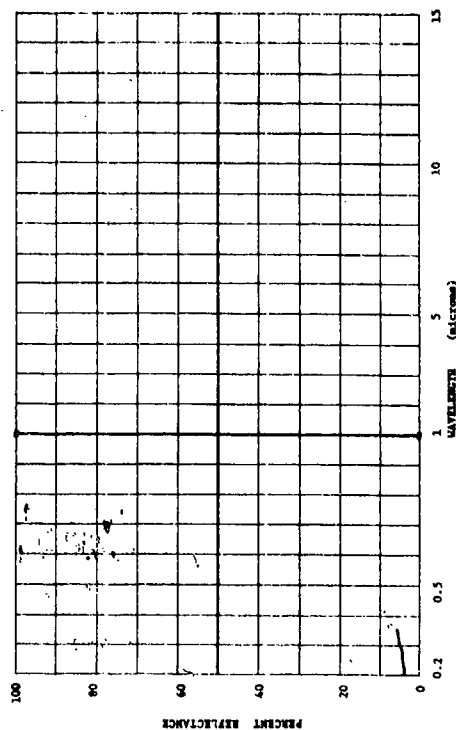
B13946-026
 Rotting Wood. Moist and Dirty. (SECRET)

SUBJECT CODES

ACT	APR	CDC	CED	DPAA	DPED	DK	EFAC	ECAD
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PARAMETER INFORMATION

DATE=	64	TIME=	LAT°	LONG°	RANGE=
DAYS RE=		IN	LON°	CN	TIME-1
OBSY=		TITLE=	UTMO SP=	VIND D1=	VIS-
TIDR=		DOU FT=	N AVG= 1		



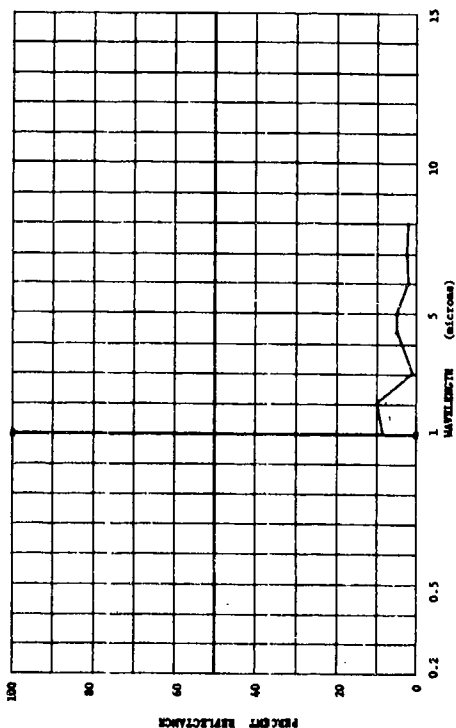
Wood, American Walnut, Smooth. (CONFIDENTIAL)

SUBJECT CODES

ART CDC CTD DPAA DMC ECCA ECCC ECCC ECCC

PLEASE ADVISE INFORMATION

RANGE	AL ⁺	LONG	CH	VIBO D1-
TIME Z	CAL	LAT	VIBO S2-	B AVE 1
VIB	CLD	LAP	TIMEP	DEN PT-
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		DATE RE	QST-	
		TIME		



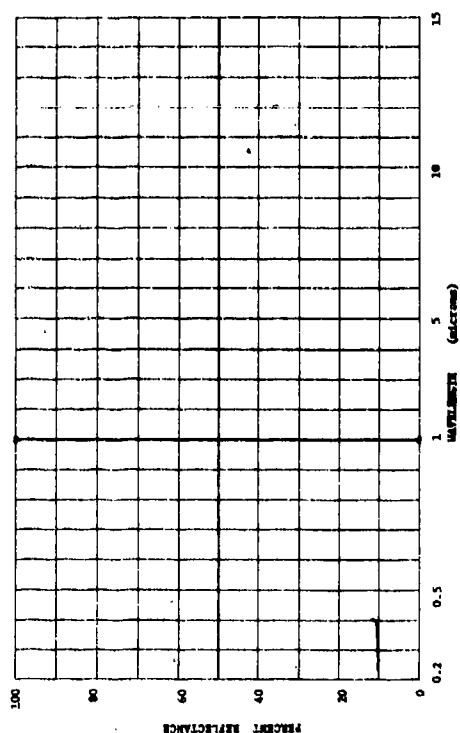
914004-099 Search Piyosed. (CONFIDENTIAL)

CONFLICT OF INTEREST

ART CDC CDD DPM DPOD IN . DEAC DEAP

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DRIFT	1700M	WIND S=	WIND D=	VLS-
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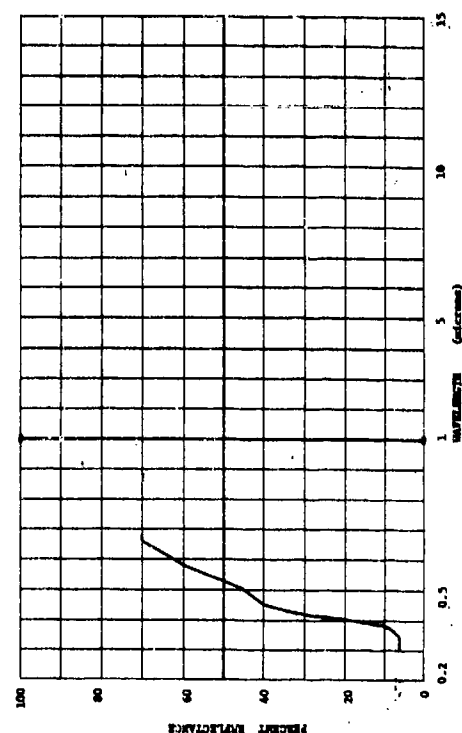


• 816004-058
Ciena Sealed Wood. (COMM/INDUSTIAL.)

PERJECT CODE:

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THE UNIVERSITY OF CHICAGO

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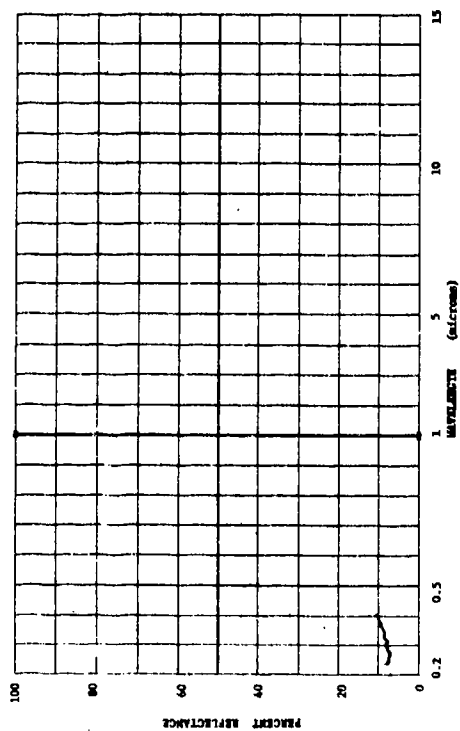
• B16004-038 Dirty Dry Flywood. (CONFIDENTIAL)

SUBJECT CODES

AFT ARI CDC CDD DPA DPCD IX MCAC MCAD

ADDITIONAL INFORMATION

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DAYS RP=		IS=		LAT=	CN=	CAL=	TRD= E
OBSY=		TIME=		UTDR SP=	WIND DI=	CLO=	VLS=
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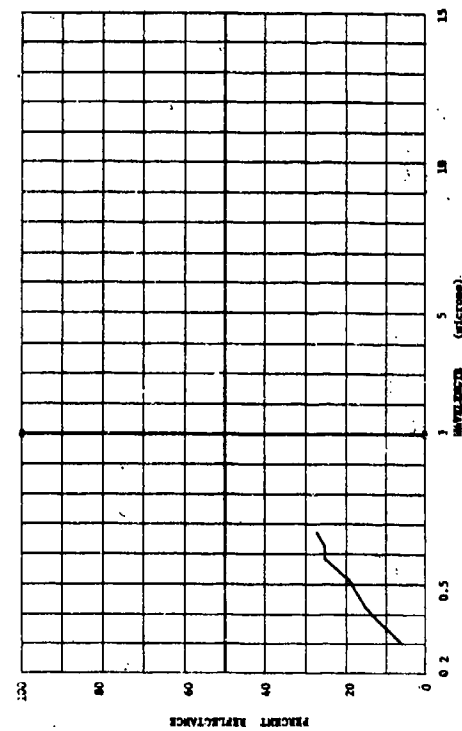
• 81-6004-057
Dirty Plywood. (CONFIDENTIAL)

PERMIT CONTRACT NUMBER

STATION 1204 (2004)

NOVEL THERAPEUTIC INTERVENTIONS

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10/7/78	462	10/7/78	462
10/7/78	468	10/7/78	468
10/7/78	474	10/7/78	474
10/7/78			



CONFIDENTIAL

AET 4

*31-004-000 Charcoal. (CONFIDENTIAL)

SUBJECT CODES

AET CD CED DFA DFCD DK EQAD ECR

PARAMETER INFORMATION

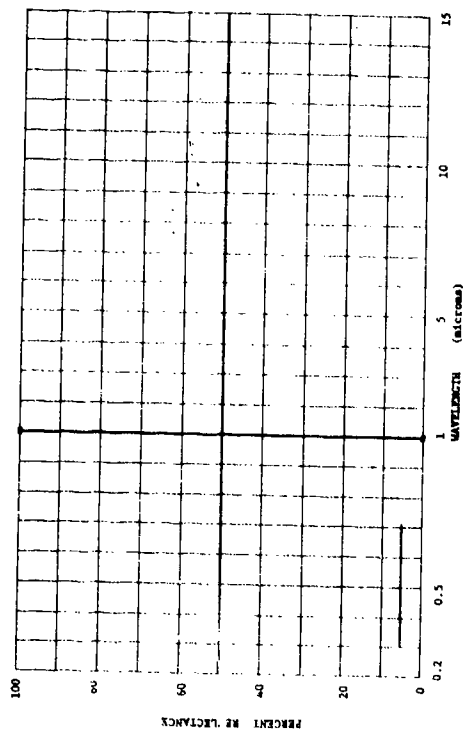
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LONG= 14
LONG= 14
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CONFIDENTIAL

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BACKGROUNDS
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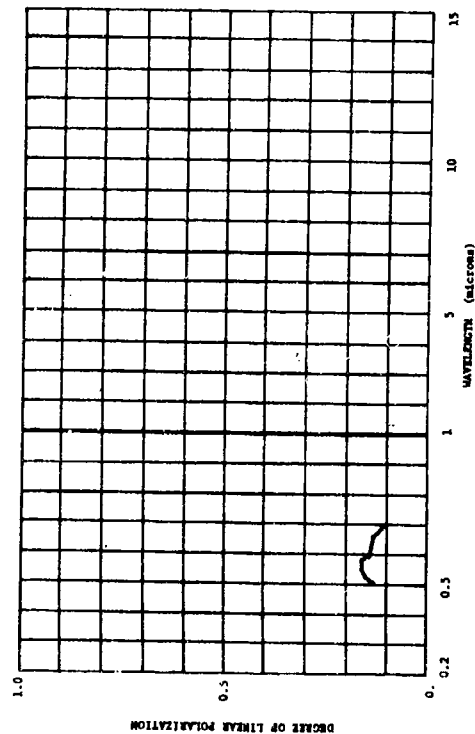
SECRET

B7 1

*813944-004 From Forest Soil and Desert Sand. (CONFIDENTIAL)

SUBJECT CODES

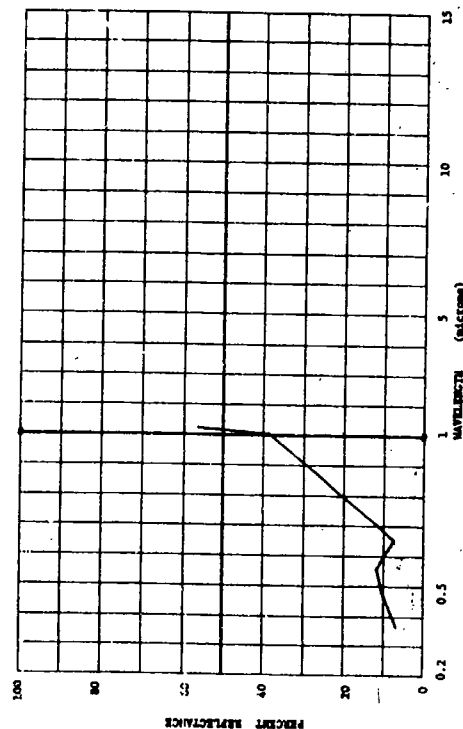
BY ECHAF CD CEC CN DMC DLF EGB
PARAMETER INFORMATION
DATE- 64
TIME- 12:30
LAT- 0
LONG- 65
ALT- 160
CAL- 160
CLD- 160
VIS- 160
WIND SP- 0
WIND DIR- 0
WIND P- 0
WIND F- 0



*813944-012 Fine Gray Sandy Soil, Dry. (SECRET)

SUBJECT CODES

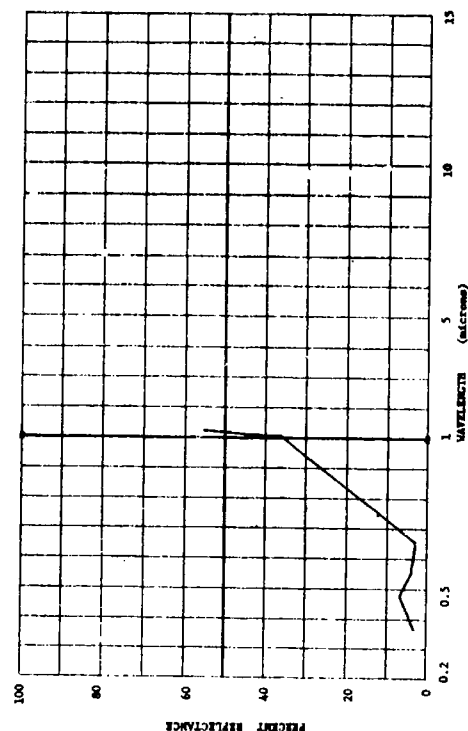
BY ECHAF CD CEC CN DMC DLF EGB
PARAMETER INFORMATION
DATE- 64
TIME- 12:30
LAT- 0
LONG- 65
ALT- 160
CAL- 160
CLD- 160
VIS- 160
WIND SP- 0
WIND DIR- 0
WIND P- 0
WIND F- 0



*813944-011 Fine Dark Brown Soil Dry. (SECRET)

SUBJECT CODES

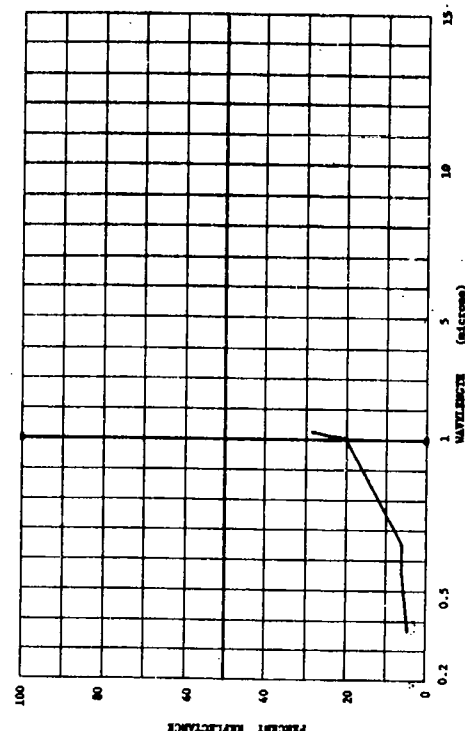
BY ECHAF CD CEC CN DMC DLF EGB
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DATE- 64
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LAT- 0
LONG- 65
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CAL- 160
CLD- 160
VIS- 160
WIND SP- 0
WIND DIR- 0
WIND P- 0
WIND F- 0



*813944-013 Rich Black Soil, Dry. (SECRET)

SUBJECT CODES

BY ECHAF CD CEC CN DMC DLF EGB
PARAMETER INFORMATION
DATE- 64
TIME- 12:30
LAT- 0
LONG- 65
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WIND F- 0



SECRET

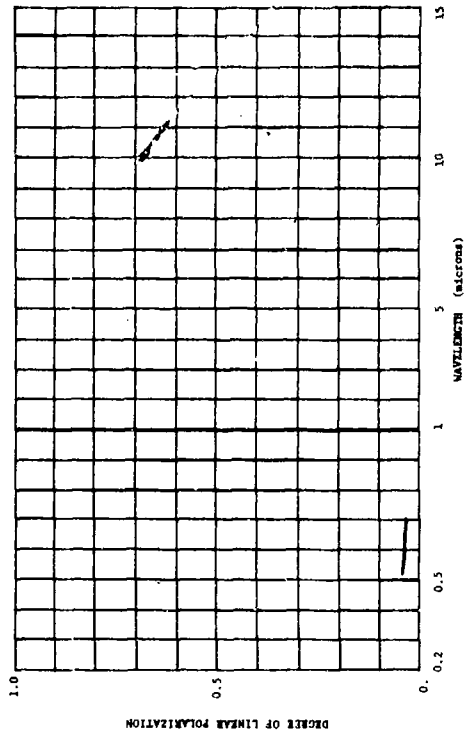
SECRET

BF 2

*B13844-009 Dry Sand. (CONFIDENTIAL)

SUBJECT CODES
BPCA BCB CAC CN DDBC DLF ECB

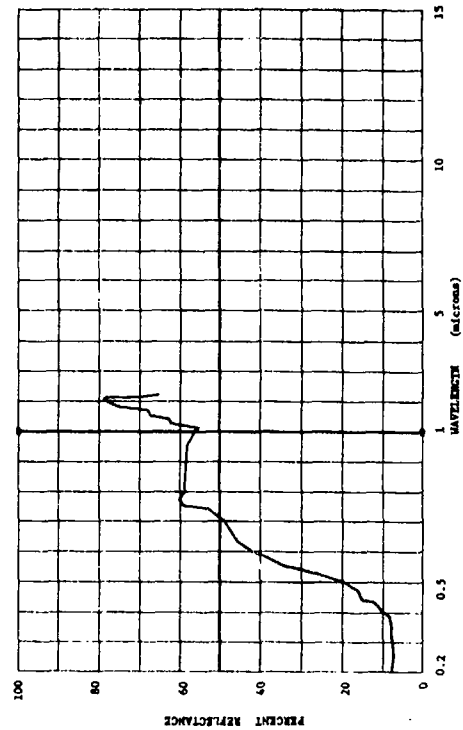
PARAMETER INFORMATION
DATE= 62 TIME= 1400
DAYS= 01 IN= 10
OBS= 1000 WIND SP= 10
TEMP= 100 WIND DIR= 10
DDB PT= 10 N AVE= 1



*B13844-002 Yellow Sand. (CONFIDENTIAL)

SUBJECT CODES
BPCA BCB CAC CN DDBC DLF ECB

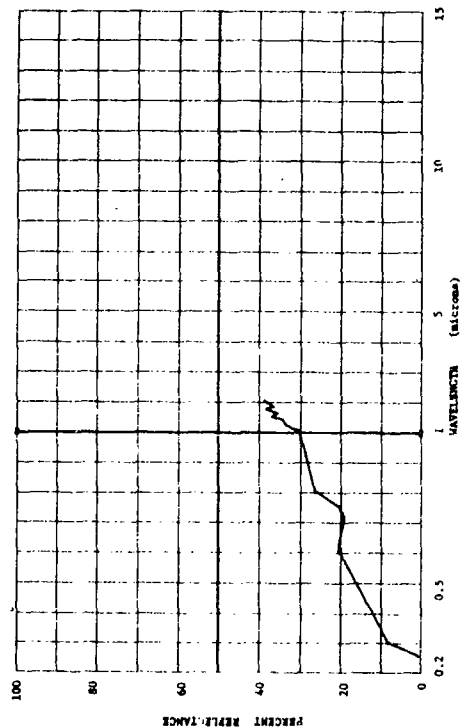
PARAMETER INFORMATION
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DAYS= 01 IN= 10
OBS= 1000 WIND SP= 10
TEMP= 100 WIND DIR= 10
DDB PT= 10 N AVE= 1



*B13844-010 Red Desert Soil. (SECRET)

SUBJECT CODES
BPCA BCB CAC CN DDBC DLF ECB

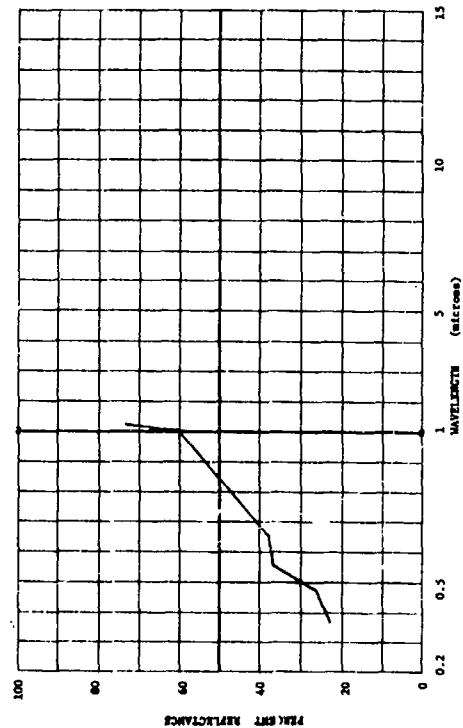
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OBS= 1000 WIND SP= 10
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DDB PT= 10 N AVE= 1



*B13844-010 Light Yellow Beach Sand, Dry. (SECRET)

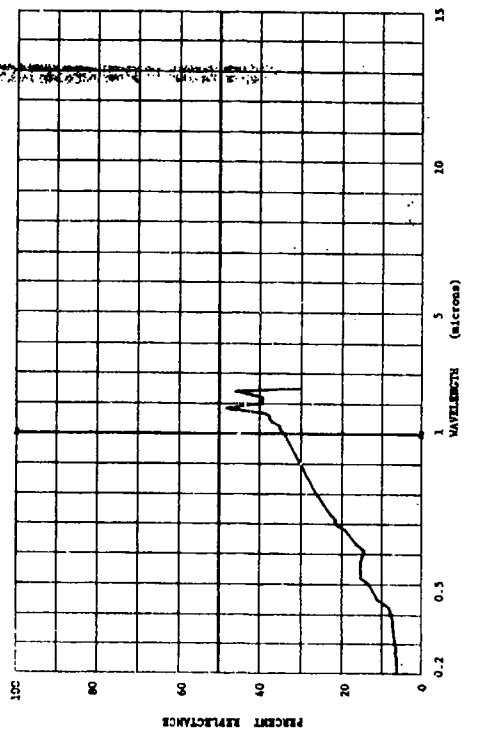
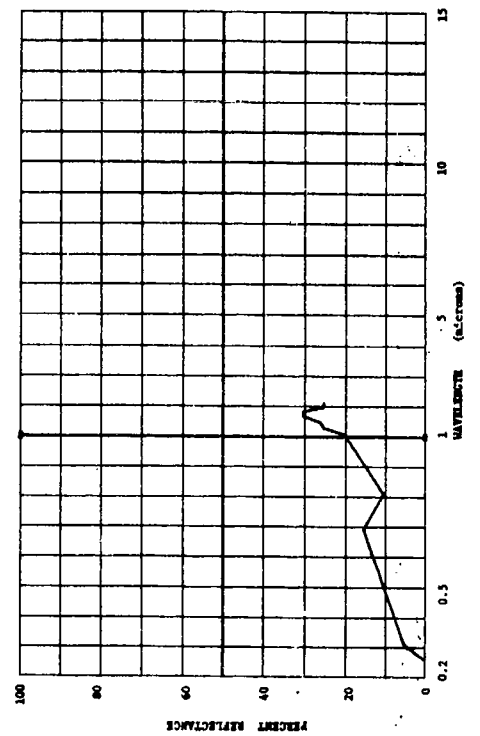
SUBJECT CODES
BPCA BCB CAC CN DDBC DLF ECB

PARAMETER INFORMATION
DATE= 62 TIME= 1400
DAYS= 01 IN= 10
OBS= 1000 WIND SP= 10
TEMP= 100 WIND DIR= 10
DDB PT= 10 N AVE= 1



SECRET

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SECRET

SECRET

BF 4

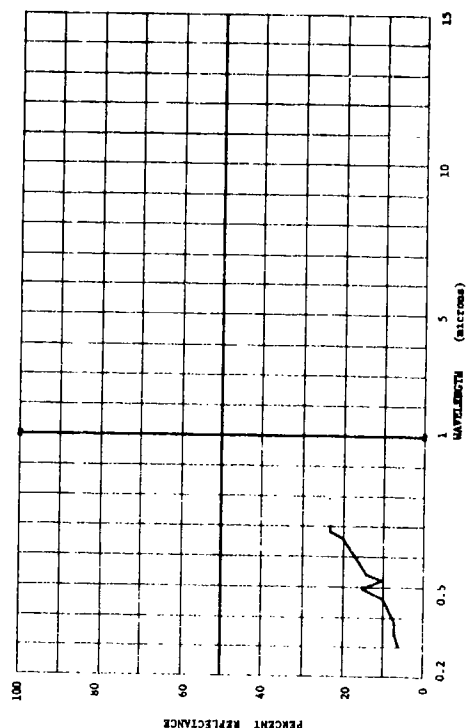
* 314004-002 Sandy Beach. (CONFIDENTIAL)

SUBJECT CODES

BPFC CD CLD DPA DPC DE ECAD ECH

PARAMETER INFORMATION

DATE= 64 TIME= 1200
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OBS= 1000
TEMP= 2000
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CLD= 10
VIS= 10



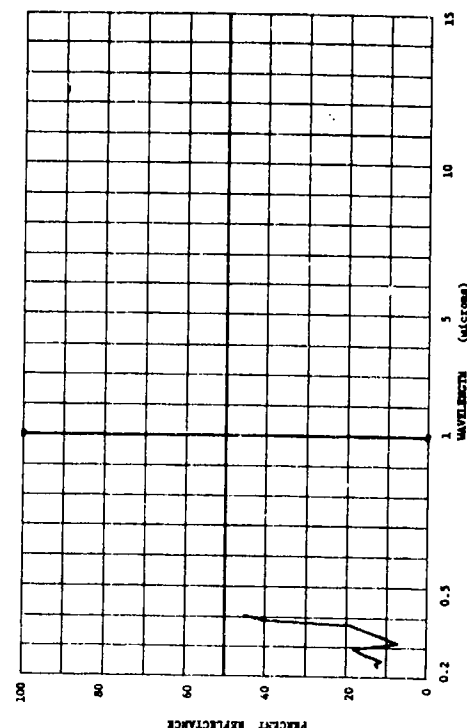
* 314004-012 Dry White Coral. (CONFIDENTIAL)

SUBJECT CODES

BPFC ECHB CD CLD DPA DPC DE ECAD ECH

PARAMETER INFORMATION

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LON= 10
CH= 10
WIND SP= 10
WIND DI= 10
RANGE= 10
ALT= 10
CAS= 10
CLD= 10
VIS= 10



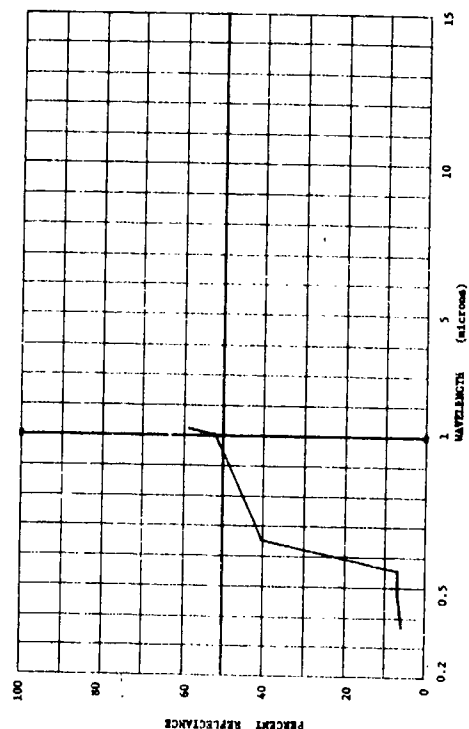
* 314004-015 Red Clay Soil, Dry. (SECRET)

SUBJECT CODES

BPFC ECHB CD CLD DPA DPC DE ECAD ECH

PARAMETER INFORMATION

DATE= 64 TIME= 1200
DAYS RE= 10
OBS= 1000
TEMP= 2000
R AVE= 1
LAT= 10
LON= 10
CH= 10
WIND SP= 10
WIND DI= 10
RANGE= 10
ALT= 10
CAS= 10
CLD= 10
VIS= 10



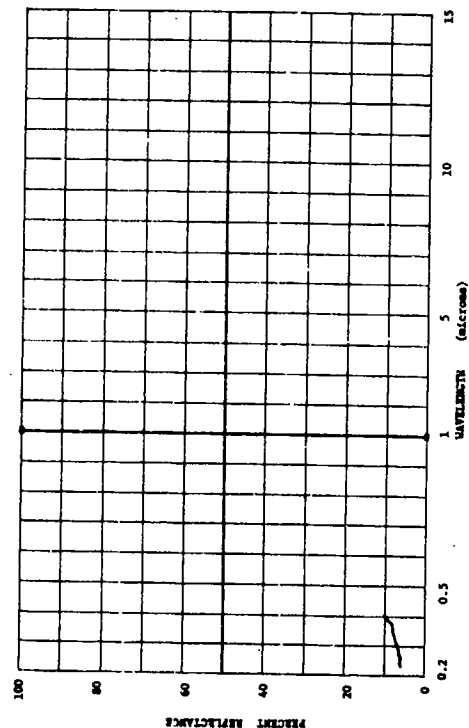
* 314004-011 Light Colored Sandy Beach. (CONFIDENTIAL)

SUBJECT CODES

BPFC ECHB CD CLD DPA DPC DE ECAD ECH

PARAMETER INFORMATION

DATE= 64 TIME= 1200
DAYS RE= 10
OBS= 1000
TEMP= 2000
R AVE= 1
LAT= 10
LON= 10
CH= 10
WIND SP= 10
WIND DI= 10
RANGE= 10
ALT= 10
CAS= 10
CLD= 10
VIS= 10



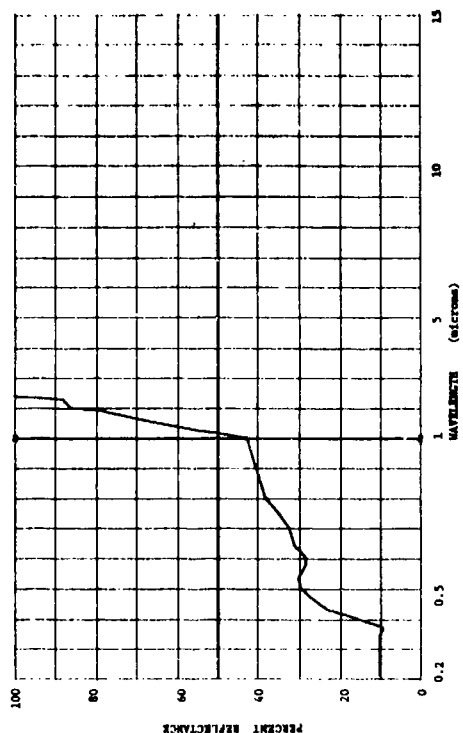
SECRET

CONFIDENTIAL

BP 1

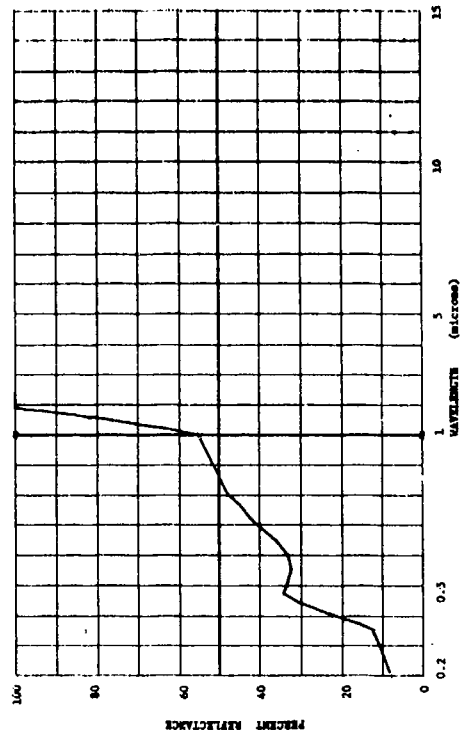
• B14004-085 Uranium Ore. (CONFIDENTIAL)

SUBJECT CODES
BPM CXC CDD DPA DPC DK ECAC ECAD ECE ECCA
ECCB
PARAMETER INFORMATION
DATE- 64 TIME-
DATE- 13- TIME-
OBS- TIME-
TIME- DM FT-
N AVB- 1
LONG- ALT-
CR- CAS-
WIND DI- CLO-
VIB- VIB-
RANGE-
IRB- E



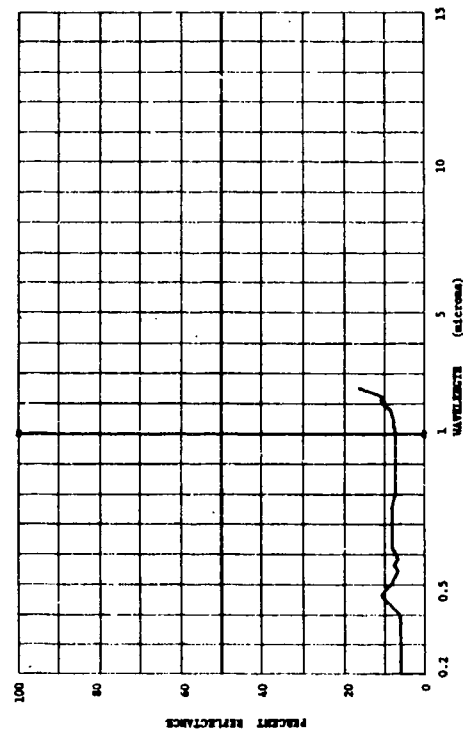
• B14004-087 Limestone. (CONFIDENTIAL)

SUBJECT CODES
BPM CXC CDD DPA DPC DK ECAC ECAD ECE ECCA
ECCB
PARAMETER INFORMATION
DATE- 64 TIME-
DATE- 13- TIME-
OBS- TIME-
TIME- DM FT-
N AVB- 1
LONG- ALT-
CR- CAS-
WIND DI- CLO-
VIB- VIB-
RANGE-
IRB- E



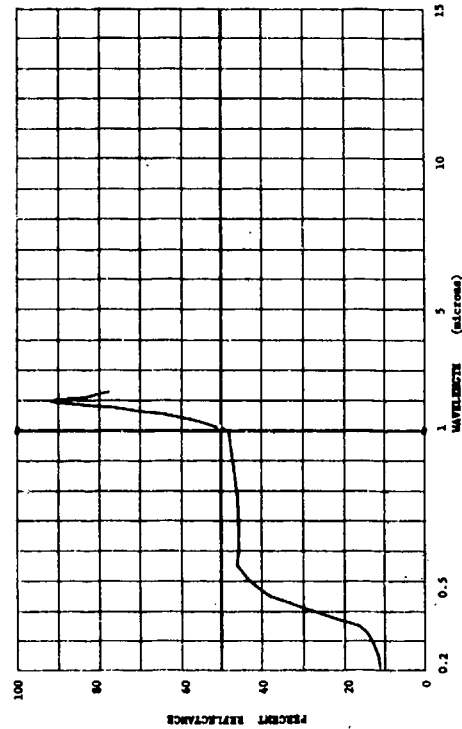
• B14004-086 Lava. (CONFIDENTIAL)

SUBJECT CODES
BPM CXC CDD DPA DPC DK ECAC ECAD ECE ECCA
ECCB
PARAMETER INFORMATION
DATE- 64 TIME-
DATE- 13- TIME-
OBS- TIME-
TIME- DM FT-
N AVB- 1
LONG- ALT-
CR- CAS-
WIND DI- CLO-
VIB- VIB-
RANGE-
IRB- E



• B14004-086 Shale. (CONFIDENTIAL)

SUBJECT CODES
BPM CXC CDD DPA DPC DK ECAC ECAD ECE ECCA
ECCB
PARAMETER INFORMATION
DATE- 64 TIME-
DATE- 13- TIME-
OBS- TIME-
TIME- DM FT-
N AVB- 1
LONG- ALT-
CR- CAS-
WIND DI- CLO-
VIB- VIB-
RANGE-
IRB- E



CONFIDENTIAL

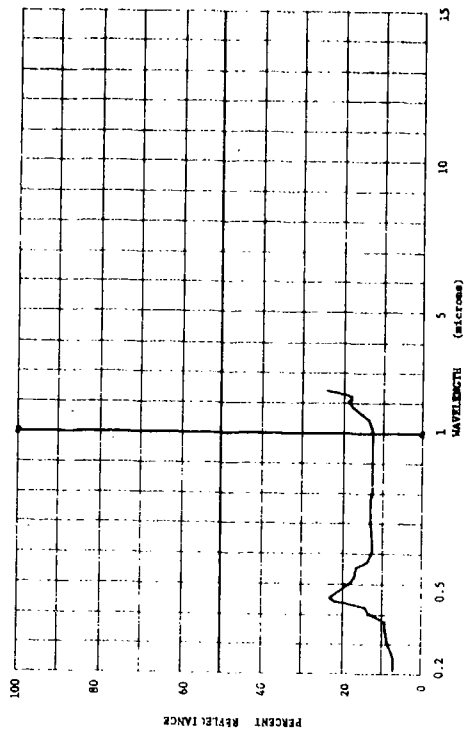
CONFIDENTIAL

BF 6

* B14004-091 Result. (CONFIDENTIAL)

SUBJECT CODES
BPN CDC CED DFA DFCD DK ECAC ECAD ECB ECCA
ECCB

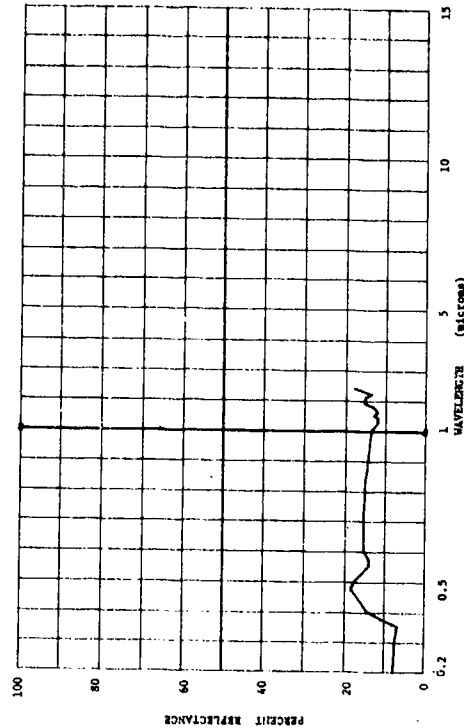
PARAMETER INFORMATION
DATE= 64 TIME= LAT= LONG= ALT= RANGE= 1000
DAYS RE= 15 CH= CH= CAZ= CAZ= IIR= E
ONST= TTRP= TTRP= WIND DI= WIND DI= VIS= 1
TEMP= DBP FT= DBP FT= M AVE= 1



* B14004-093 Gray Feldspar. (CONFIDENTIAL)

SUBJECT CODES
BPN ECCB CDC CED DFA DFCD DK ECAC ECAD ECB
ECCA ECCB

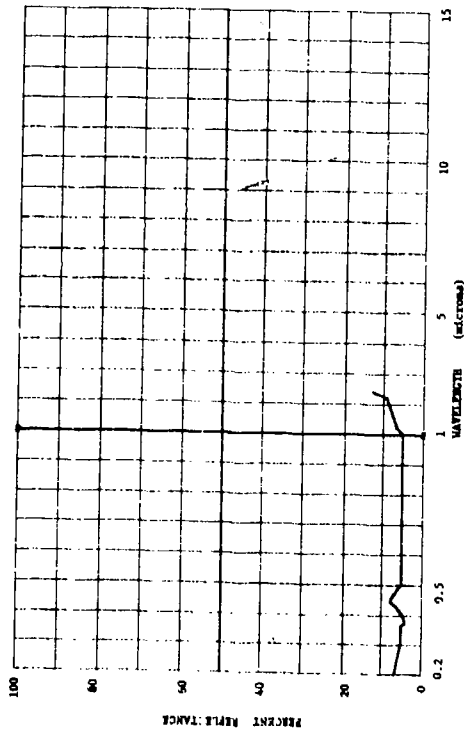
PARAMETER INFORMATION
DATE= 64 TIME= LAT= LONG= ALT= RANGE= 1000
DAYS RE= 15 CH= CH= CAZ= CAZ= IIR= E
ONST= TTRP= TTRP= WIND DI= WIND DI= VIS= 1
TEMP= DBP FT= DBP FT= M AVE= 1



* B14004-099 Slag. (CONFIDENTIAL)

SUBJECT CODES
BPN CDC CED DFA DFCD DK ECAC ECAD ECB ECCA
ECCB

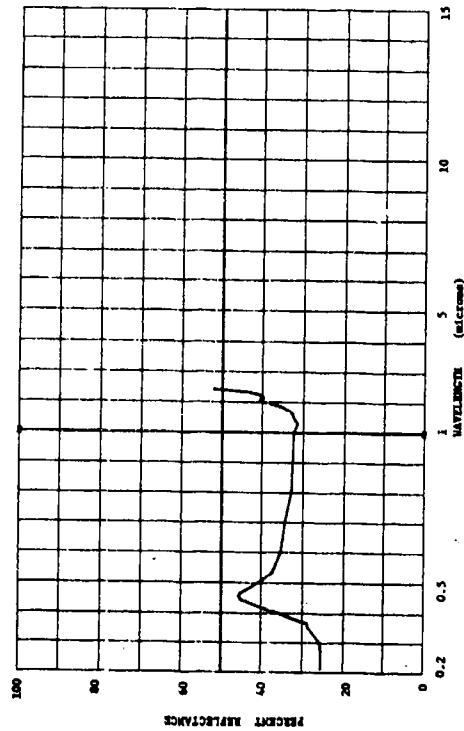
PARAMETER INFORMATION
DATE= 64 TIME= LAT= LONG= ALT= RANGE= 1000
DAYS RE= 15 CH= CH= CAZ= CAZ= IIR= E
ONST= TTRP= TTRP= WIND DI= WIND DI= VIS= 1
TEMP= DBP FT= DBP FT= M AVE= 1



* B14004-092 Graphite. (CONFIDENTIAL)

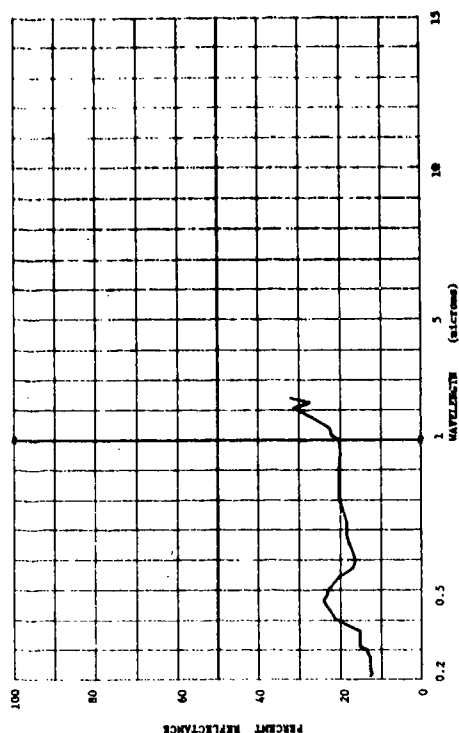
SUBJECT CODES
BPN CDC CED DFA DFCD DK ECAC ECAD ECB ECCA
ECCB

PARAMETER INFORMATION
DATE= 64 TIME= LAT= LONG= ALT= RANGE= 1000
DAYS RE= 15 CH= CH= CAZ= CAZ= IIR= E
ONST= TTRP= TTRP= WIND DI= WIND DI= VIS= 1
TEMP= DBP FT= DBP FT= M AVE= 1



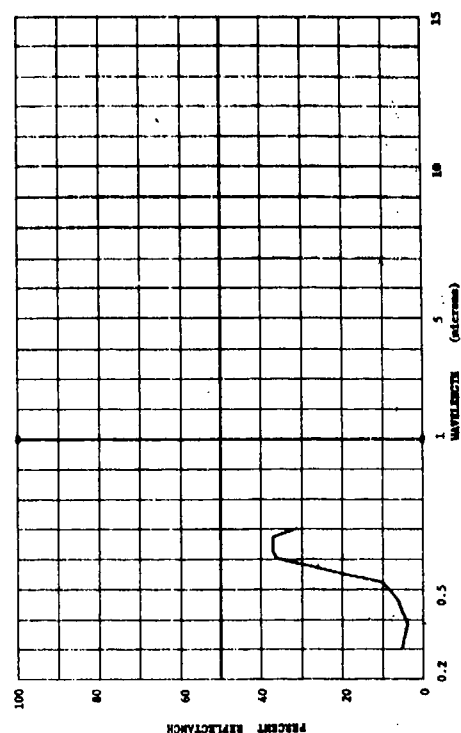
CONFIDENTIAL

• B14004-095 Potash Grantee. (CONFIDENTIAL)

[illegible]

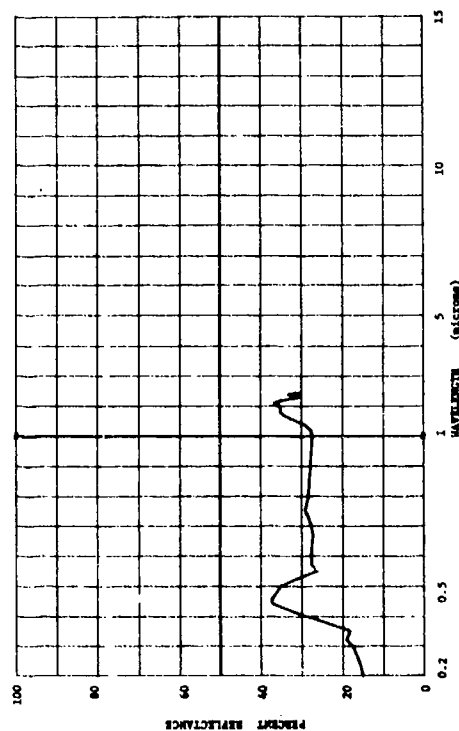
• B14004-361 Yellow Sandstone Clay. (CONFIDENTIAL)

SUBJECT CODES	SPED	SCBC	CD	CED	DFA	DPCD	DE	EJAB	ED
PARAMETER INFORMATION									
BATCH=					LAT=		LONG=		ALT=
TIME-1					HUT RE-				CRS=
TIME-2					TRNG=		WIND DI-		CHG=
					TEMP=		WAVE-1		
					TIDE=		WAVE-2		
					SEA FT=				



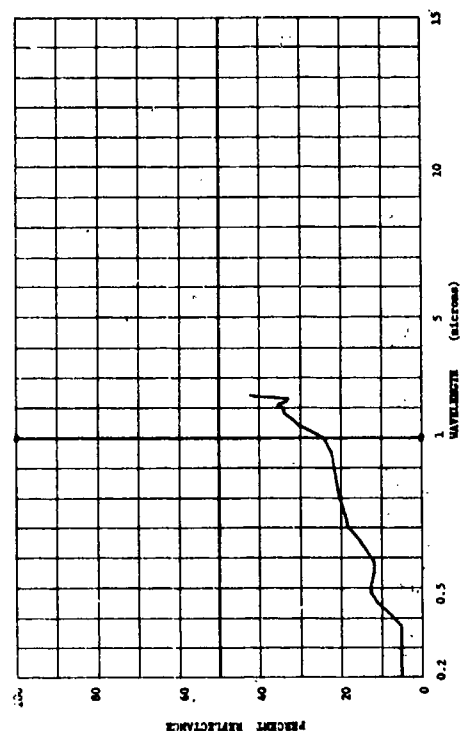
• 114004-094

SUBJECT CODE	BPA	CAC	CD	DFA	DECD	IK	ECAC	ECAF	ECB	ECCL
ECCE										
PARAMETER INFORMATION										
RATE=					LAT=		LONG=		ALT=	RANGE=
DATE=					TIME=		MUT PR=		HAS=	TYPE=
TEMP=					TEMP=		TRNG SP=		CHD=	TYPE=
					DOF FT=		WIND DI=			
					N AVG=	1				



• 114004-096

SUBJECT CODES	SPR	CDC	CED	DPA	DPCD	IK	ELAC	EJAO	ECB	ZCCA
BOE										
PARAMETER INFORMATION										
DATE=					LAT=		LONG=		ALT=	RANGE=
TIME=					TDZ=		CR		CAL=	TRIP E
RE=					TYPE=		WIND DIR=		CAD=	TRIP
THRO=					H ALT=	1				
					PASS FT=					



CONFIDENTIAL

• M14004--090 Red Sandstone. (CONFIDENTIAL)

BFND	ECBSE	CDC	CED	DFA	DFCD	DM	ECAC	ECAD	ECB
ECCA	ECCB								

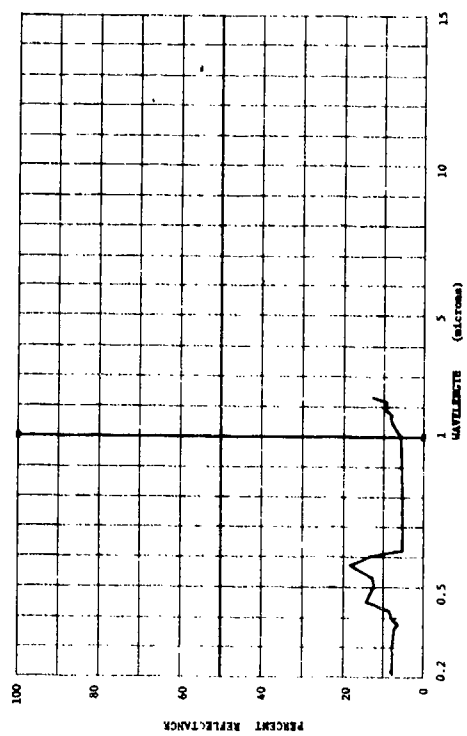
DATE=	64	TIME=
DAYS RE=		IN=
ORST=		TIME=
TEMP=		DEM FT=

LAT-
LAT-
LTD SP-
LAT- I

LONG-
CIR-
WIND DI-

-FD-
 -247-
 -27-

RANZ
 IRR E
 VIS



BG
BACKGROUNDS
Vegetation

SECRET

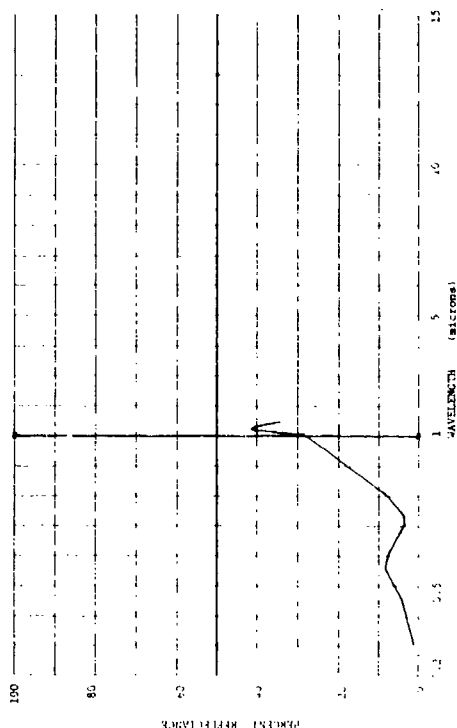
• 813946-027 Fresh Green Grass, Thick. (SECRET)

SUBJECT CODES

BGC ECBB CD CEC DFA DFCE DE ECAD ECE ECCA

PARAMETER INFORMATION

DATE= 62 TIME= LAT= LONG= ALT= RANGE= 100
DAYS RE= 13- IAS= CH= CAZ= 100- E
OBS= TEMP= WIND SP= WIND DI= CLD= 100- E
TEN= DEN PT= N AVE= 1 VIS= 100



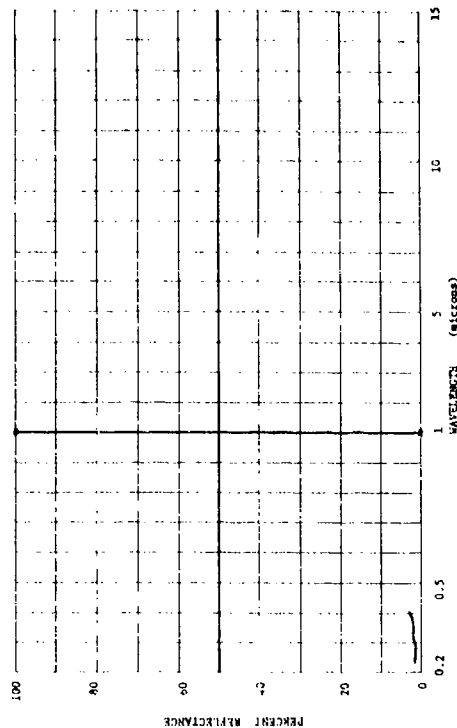
• 813946-014 Dead Dry Needs. (CONFIDENTIAL)

SUBJECT CODES

BGC BGF CEC DFA DFCE DK ECAD ECAC

PARAMETER INFORMATION

DATE= 64 TIME= LAT= LONG= ALT= RANGE= 100
DAYS RE= 13- IAS= CH= CAZ= 100- E
OBS= TEMP= WIND SP= WIND DI= CLD= 100- E
TEN= DEN PT= N AVE= 1 VIS= 100



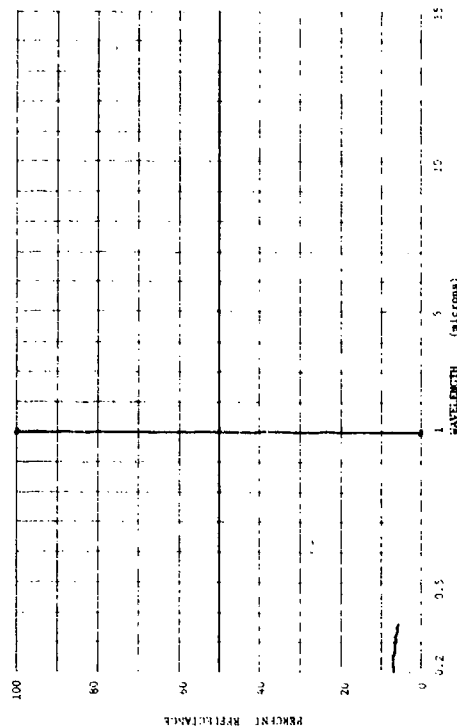
• 813946-025 Fresh Grass. (SECRET)

SUBJECT CODES

BGC CDC CED DFAA DFCE DK ECAD ECA

PARAMETER INFORMATION

DATE= 64 TIME= LAT= LONG= ALT= RANGE= 100
DAYS RE= 13- IAS= CH= CAZ= 100- E
OBS= TEMP= WIND SP= WIND DI= CLD= 100- E
TEN= DEN PT= N AVE= 1 VIS= 100



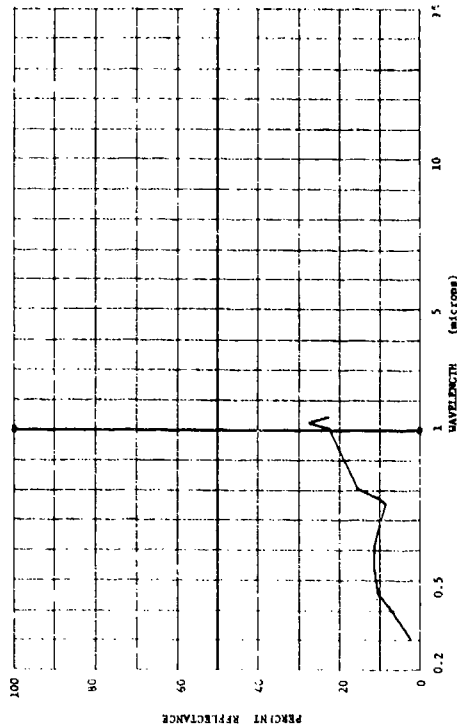
• 813946-029 Live Ranch Grass, Thin. (SECRET)

SUBJECT CODES

BGC CD CEC DFA DFCE DK ECAD ECA

PARAMETER INFORMATION

DATE= 62 TIME= LAT= LONG= ALT= RANGE= 100
DAYS RE= 13- IAS= CH= CAZ= 100- E
OBS= TEMP= WIND SP= WIND DI= CLD= 100- E
TEN= DEN PT= N AVE= 1 VIS= 100



SECRET

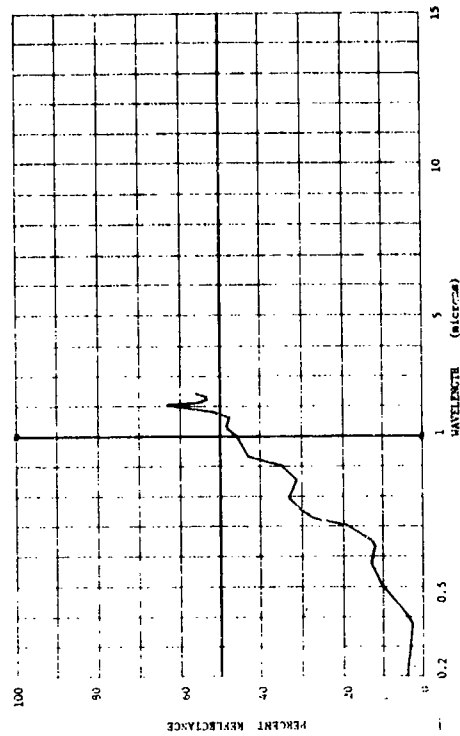
CONFIDENTIAL

BO 3

*B14004-102 Rice Plant, 3 Days After Picking. (CONFIDENTIAL)

SUBJECT CODES
 BCONK BGF CDC CED DFA DFCD DK EDCAC ECAJ ECH
 ECCA ECCR

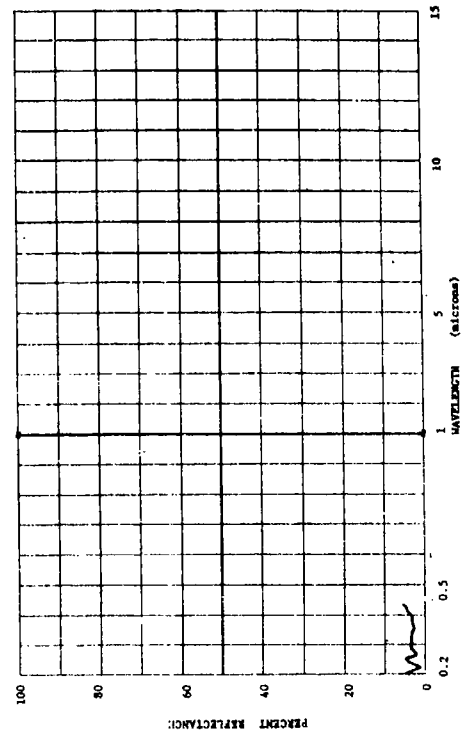
PARAMETER INFORMATION
 DATE= 64 TIME= 1100
 DAYS RE= 3 TIDP= 0000
 OBS= 1 DEM PT= 1
 LAT= 12N LONG= 100E
 ALT= 1000 CAS= 1000
 WIND SP= 10 WIND DI= 100
 RANGE= 10000 VIS= 10000



*B14004-053 Rice Plant Leaf, 2 Days After Picking. (CONFIDENTIAL)

SUBJECT CODES
 BCONK BGF CDC CED DFAA DFCD DK EDCAC ECAJ
 ECCR

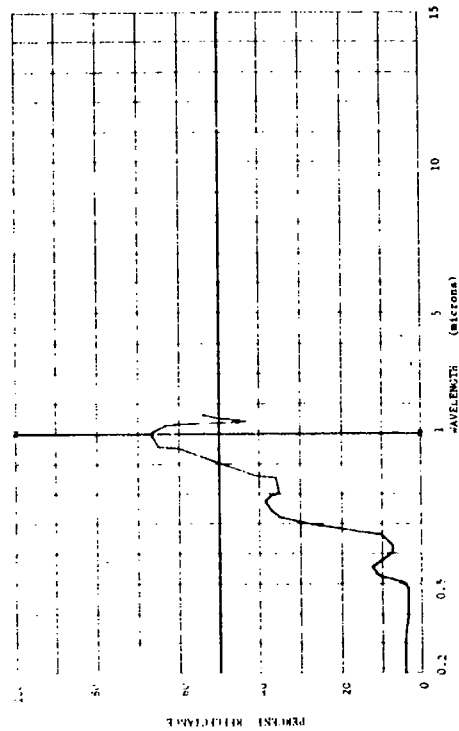
PARAMETER INFORMATION
 DATE= 64 TIME= 1100
 DAYS RE= 2 TIDP= 0000
 OBS= 1 DEM PT= 1
 LAT= 12N LONG= 100E
 ALT= 1000 CAS= 1000
 WIND SP= 10 WIND DI= 100
 RANGE= 10000 VIS= 10000



*B14004-101 Rice Plant, 3-8 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES
 BCONK BGF CDC CED DFA DFCD DK EDCAC ECAJ ECH
 ECCA ECCR

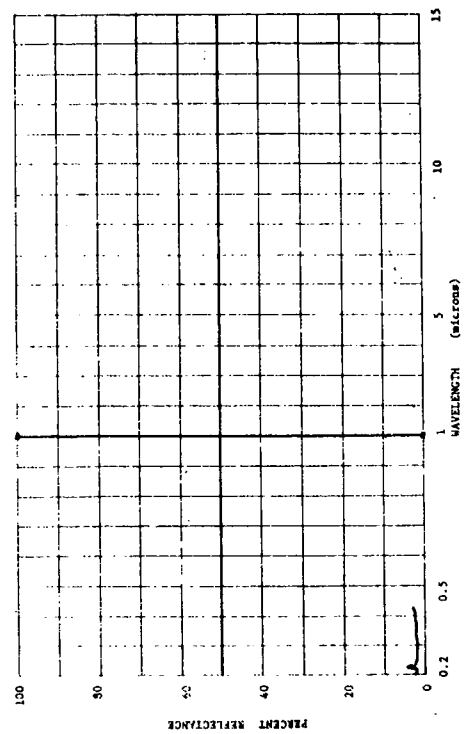
PARAMETER INFORMATION
 DATE= 64 TIME= 1100
 DAYS RE= 3 TIDP= 0000
 OBS= 1 DEM PT= 1
 LAT= 12N LONG= 100E
 ALT= 1000 CAS= 1000
 WIND SP= 10 WIND DI= 100
 RANGE= 10000 VIS= 10000



*B14004-049 Rice Plant Leaf, 2 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES
 BCONK BGF CDC CED DFAA DFCD DK EDCAC ECAJ
 ECCR

PARAMETER INFORMATION
 DATE= 64 TIME= 1100
 DAYS RE= 2 TIDP= 0000
 OBS= 1 DEM PT= 1
 LAT= 12N LONG= 100E
 ALT= 1000 CAS= 1000
 WIND SP= 10 WIND DI= 100
 RANGE= 10000 VIS= 10000



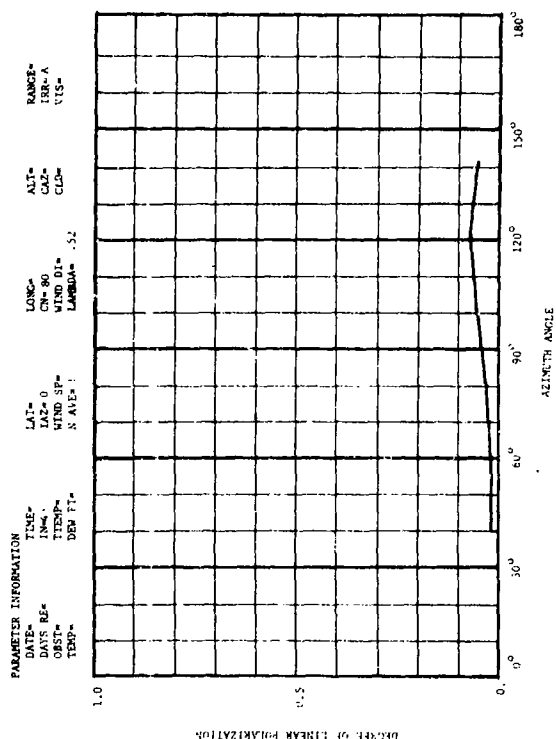
CONFIDENTIAL

CONFIDENTIAL

BG 4

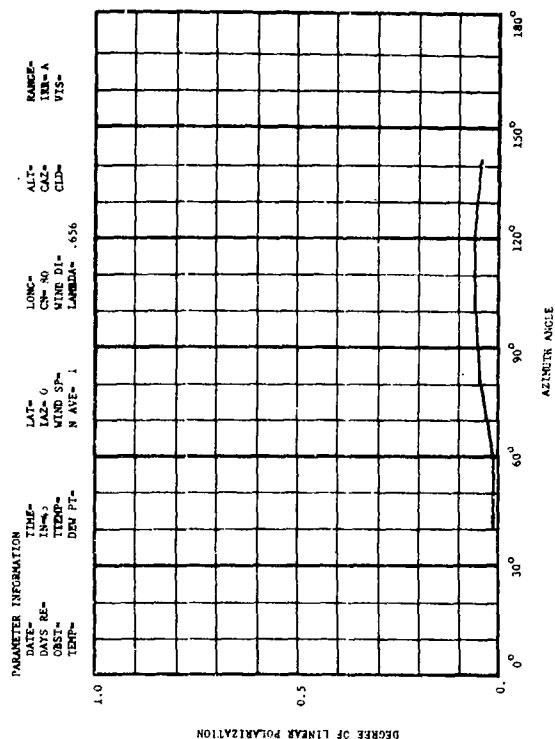
*813864-010 Summit Alifalfa Field. (CONFIDENTIAL)

SUBJECT CODES
BGCRA CEC CN DQBC FGE DLF EGB



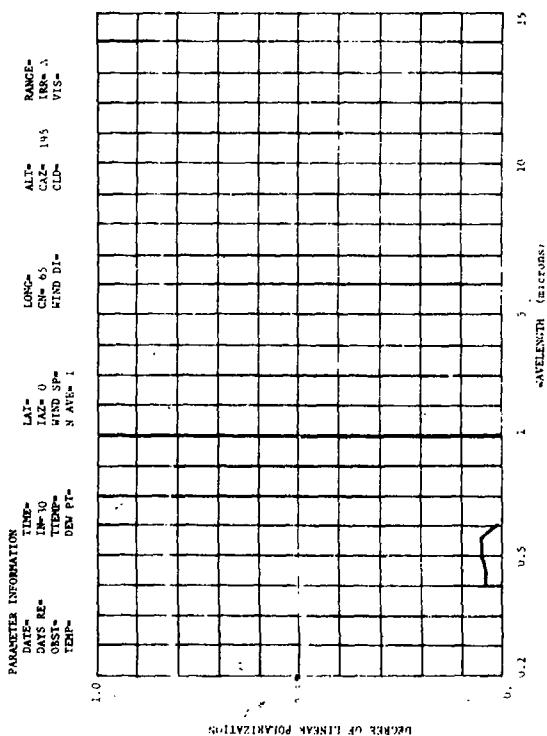
*813864-012 Summit Alifalfa Field. (CONFIDENTIAL)

SUBJECT CODES
BGCRA CEC CN DQBC FGE DLF EGB



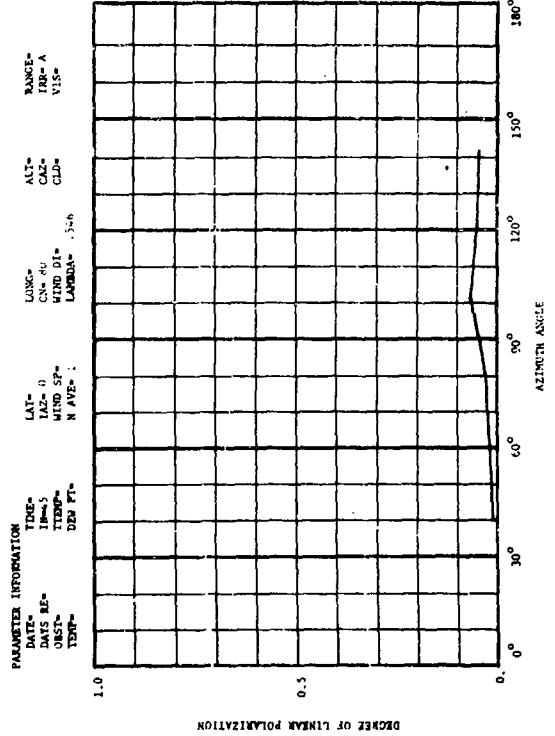
*813864-007 Alifalfa Field (Green). (CONFIDENTIAL)

SUBJECT CODES
BGCRA EGBB CEC CN DQBC FGE DLF EGB



*813864-011 Summit Alifalfa Field. (CONFIDENTIAL)

SUBJECT CODES
BGCRA CEC CN DQBC FGE DLF EGB

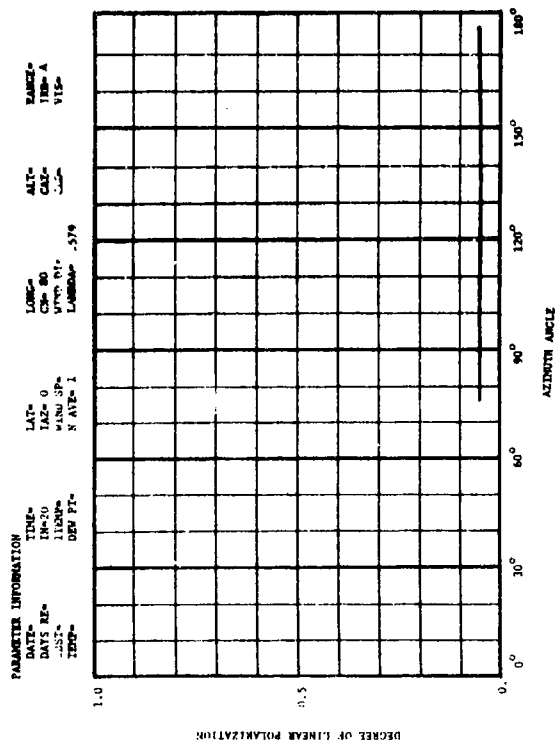


CONFIDENTIAL

CONFIDENTIAL

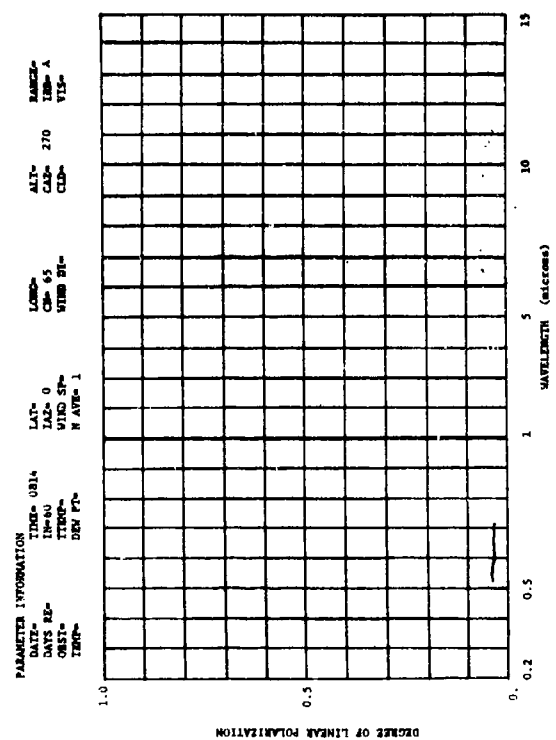
*813864-014 Sunlit Alifan Field. (CONFIDENTIAL)

SUBJECT CODES
MCCRA CEC CN DDMC PCE DLF ECH



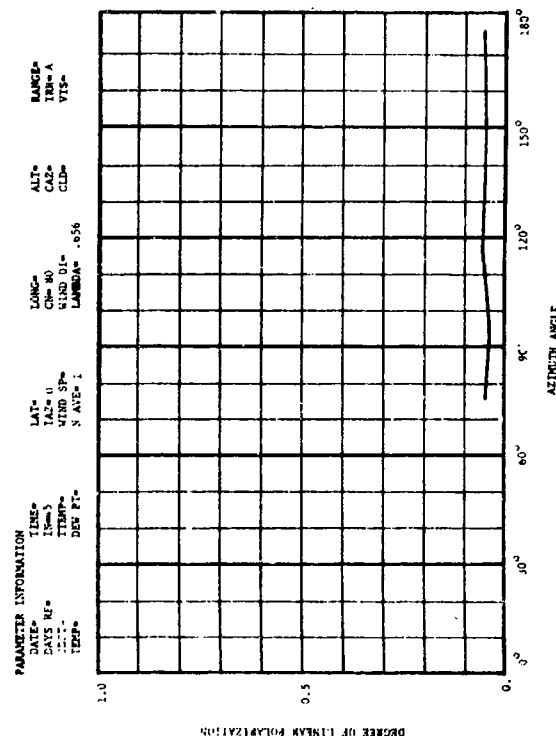
*813864-016 Sunlit Alifan Field. (CONFIDENTIAL)

SUBJECT CODES
MCCRA CEC CN DDMC PCE DLF ECH



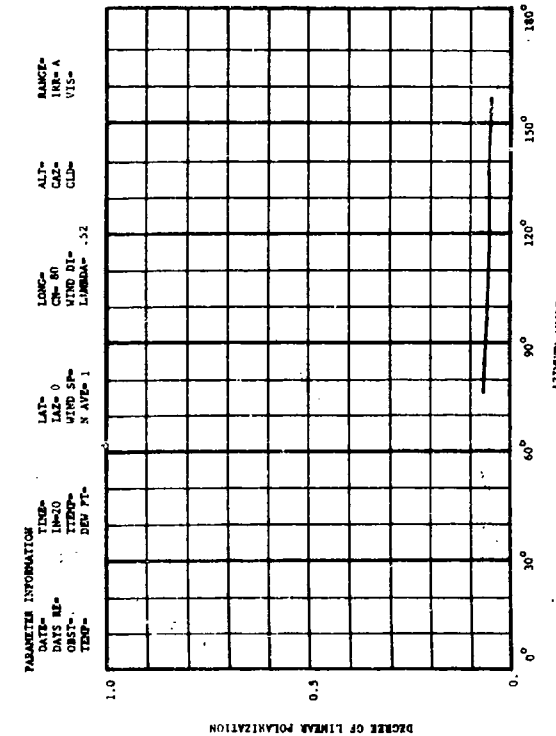
*813864-013 Sunlit Alifan Field. (CONFIDENTIAL)

SUBJECT CODES
MCCRA CEC CN DDMC PCE DLF ECH



*813864-015 Sunlit Alifan Field. (CONFIDENTIAL)

SUBJECT CODES
MCCRA CEC CN DDMC PCE DLF ECH



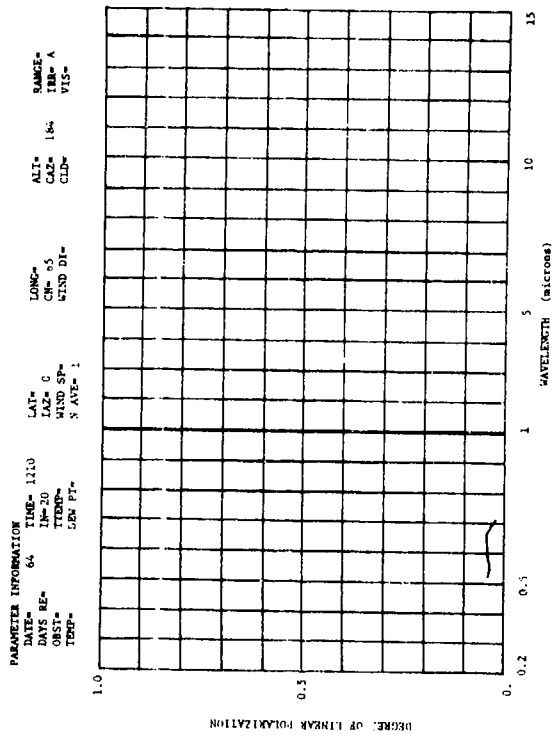
CONFIDENTIAL

CONFIDENTIAL

BG 6

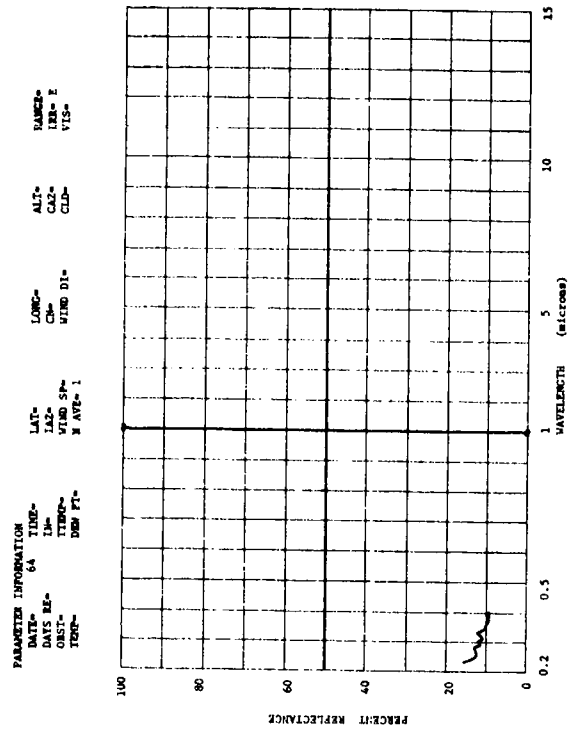
• B13864-018 Summit Alifan Field. (CONFIDENTIAL)

SUBJECT CODES
BGCRA CEC CH UOBC DLF EUB



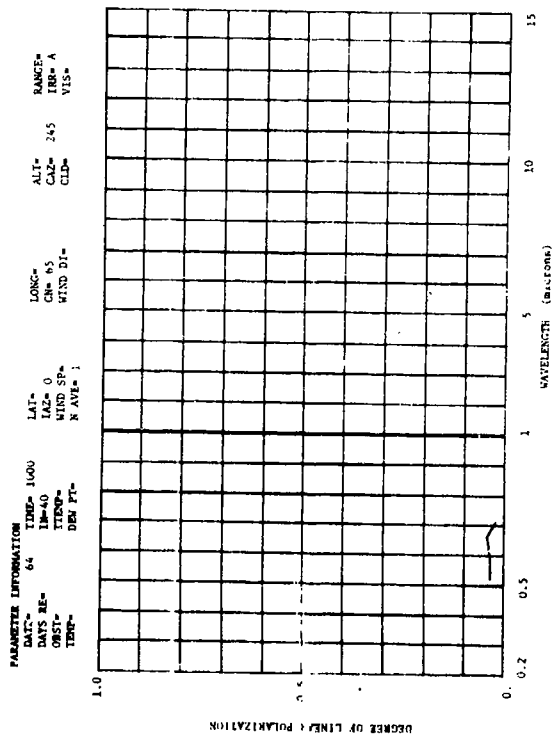
• B14004-021 Oak Leaf, 2.5 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES
BGCRC MCF CMC CED DFPA DFCD DK ECAC ECAD



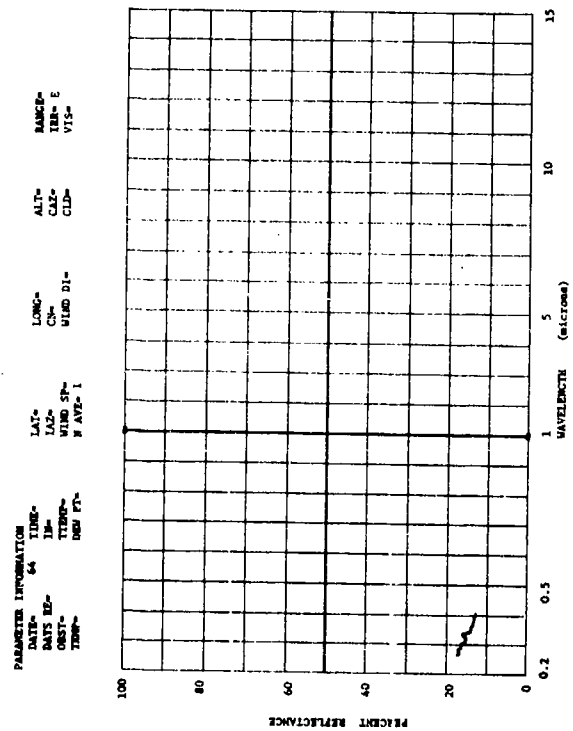
• B13864-017 Summit Alifan Field. (CONFIDENTIAL)

SUBJECT CODES
BGCRA CEC CH UOBC DLF EUB



• B14004-020 Oak Leaf, 2 Days Old. (CONFIDENTIAL)

SUBJECT CODES
BGCRC MCF CMC CED DFPA DFCD DK ECAC ECAD



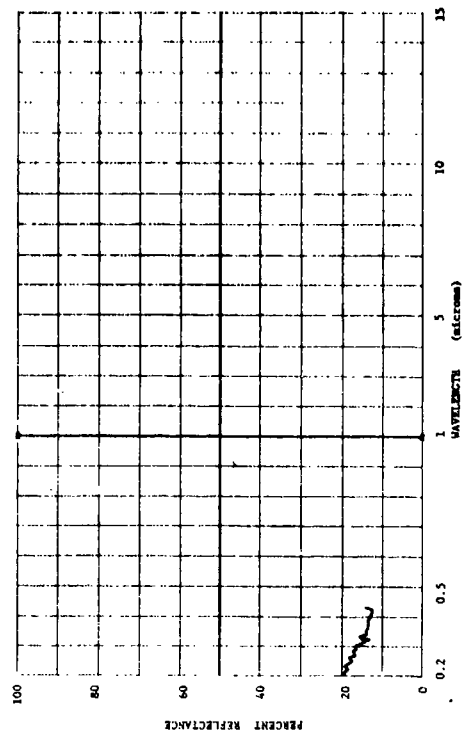
CONFIDENTIAL

CONFIDENTIAL

BO 7

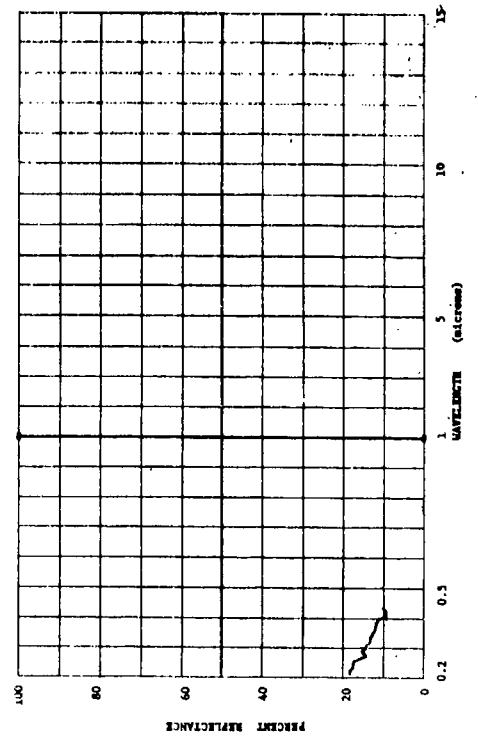
*B14004-042 Oak Leaf, Top. (CONFIDENTIAL)

SUBJECT CODES
MCDSC MCFPC CDC CED DPAA DPCD DE ECAC ECAD
PARAMETER INFORMATION
DATE=20 4 64 TIME= 1200
DAYS BE= 2 TIME= 1200
OBS= DEN PT= 1
TEMP= 70.0 F
LONG= 120.0 W
LAT= 30.0 N
WIND DI= 0
WIND SP= 0
WAVE= 0
RANGE= 1000
TERR= 0
VISA= 0



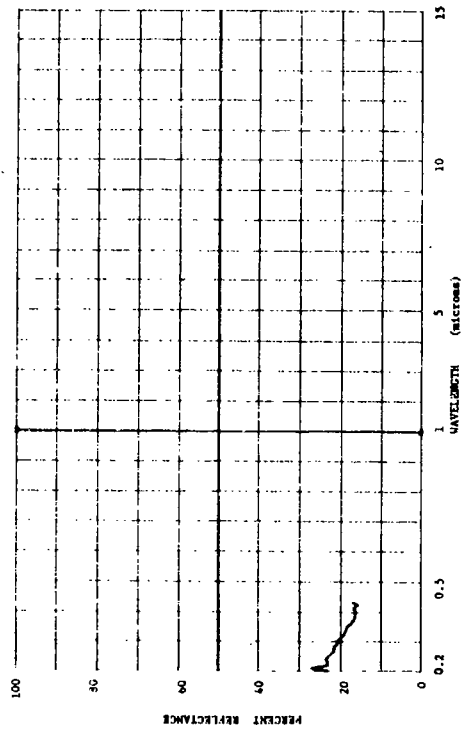
*B14004-044 Oak Leaf, About 4 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES
MCDSC MCFPC CDC CED DPAA DPCD DE ECAC ECAD
PARAMETER INFORMATION
DATE=20 4 64 TIME= 1200
DAYS BE= 2 TIME= 1200
OBS= DEN PT= 1
TEMP= 70.0 F
LONG= 120.0 W
LAT= 30.0 N
WIND DI= 0
WIND SP= 0
WAVE= 0
RANGE= 1000
TERR= 0
VISA= 0



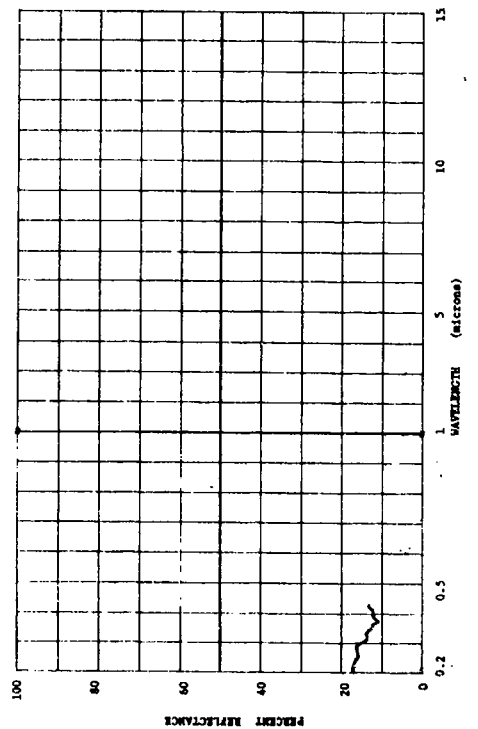
*B14004-041 Oak Leaf, Bottom. (CONFIDENTIAL)

SUBJECT CODES
MCDSC MCFPC CDC CED DPAA DPCD DE ECAC ECAD
PARAMETER INFORMATION
DATE=20 4 64 TIME= 1200
DAYS BE= 2 TIME= 1200
OBS= DEN PT= 1
TEMP= 70.0 F
LONG= 120.0 W
LAT= 30.0 N
WIND DI= 0
WIND SP= 0
WAVE= 0
RANGE= 1000
TERR= 0
VISA= 0



*B14004-043 Oak Leaf, About 2 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES
MCDSC MCFPC CDC CED DPAA DPCD DE ECAC ECAD
PARAMETER INFORMATION
DATE=20 4 64 TIME= 1200
DAYS BE= 2 TIME= 1200
OBS= DEN PT= 1
TEMP= 70.0 F
LONG= 120.0 W
LAT= 30.0 N
WIND DI= 0
WIND SP= 0
WAVE= 0
RANGE= 1000
TERR= 0
VISA= 0



CONFIDENTIAL

CONFIDENTIAL

BG 8

*B14004-045 Oak Leaf, Top, About 2 Hrs. After Picking. (CONFIDENTIAL)

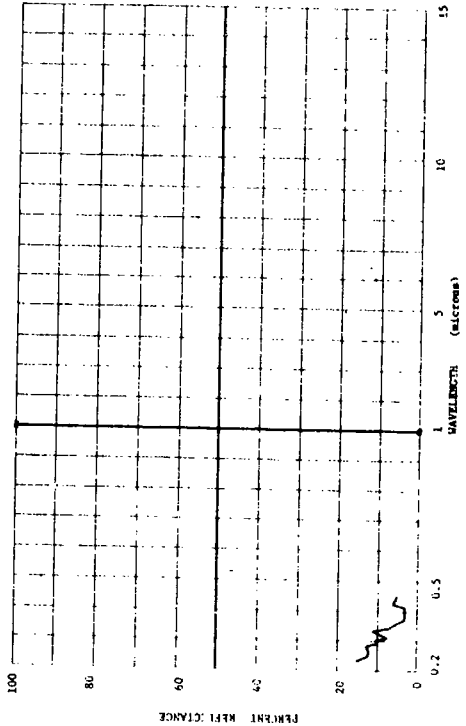
SUBJECT CODES

BQUBC BQF CDC CED DFPA DFCD DK ECAC ECAD ECB

PARAMETER INFORMATION

DATE=8 4 64 TIME= 14:00
DAYS RE= 3 IN= 14:00
OBS= 14:00
TEMP= 14:00

LAT= LONG= ALT= RANGE= 100
LAZ= CH= CAZ= 100
WIND SP= WIND DI= CLD= 100
N AVE= 1



*B14004-104 Water Oak, 3 Days in Weather After Picking. (CONFIDENTIAL)

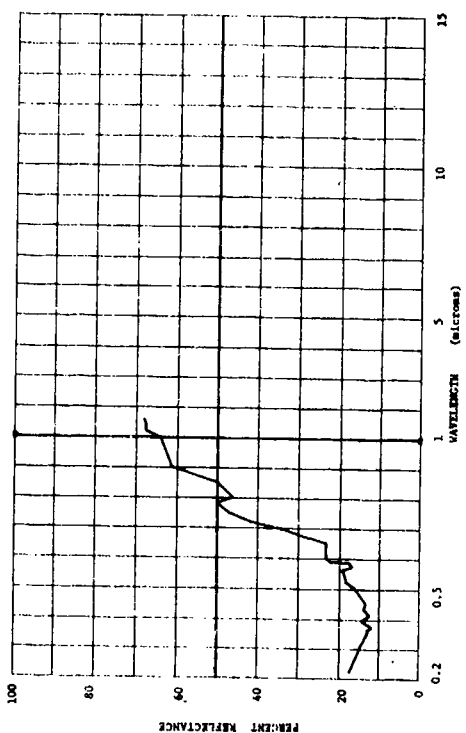
SUBJECT CODES

BQUBC BQF CDC CED DFPA DFCD DK ECAC ECAD ECB

PARAMETER INFORMATION

DATE=8 4 64 TIME= 14:00
DAYS RE= 3 IN= 14:00
OBS= 14:00
TEMP= 14:00

LAT= LONG= ALT= RANGE= 100
LAZ= CH= CAZ= 100
WIND SP= WIND DI= CLD= 100
N AVE= 1



*B14004-103 Water Oak, 3-6 Hrs. After Picking. (CONFIDENTIAL)

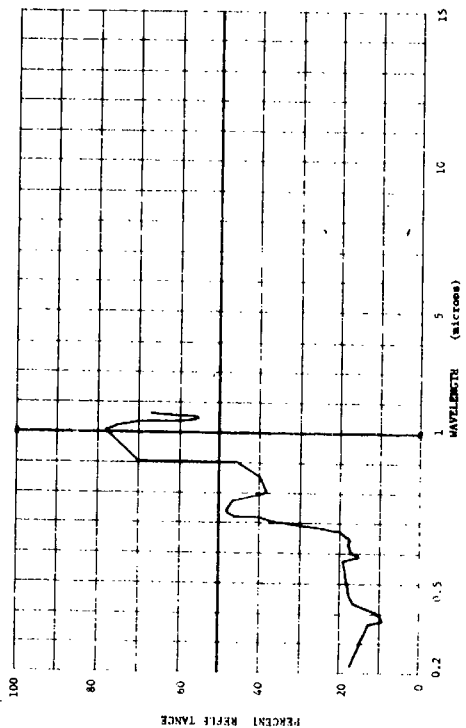
SUBJECT CODES

BQUBC BQF CDC CED DFPA DFCD DK ECAC ECAD ECB

PARAMETER INFORMATION

DATE=8 4 64 TIME= 14:00
DAYS RE= 3 IN= 14:00
OBS= 14:00
TEMP= 14:00

LAT= LONG= ALT= RANGE= 100
LAZ= CH= CAZ= 100
WIND SP= WIND DI= CLD= 100
N AVE= 1



*B14004-032 Dogwood Leaf, Bottom. (CONFIDENTIAL)

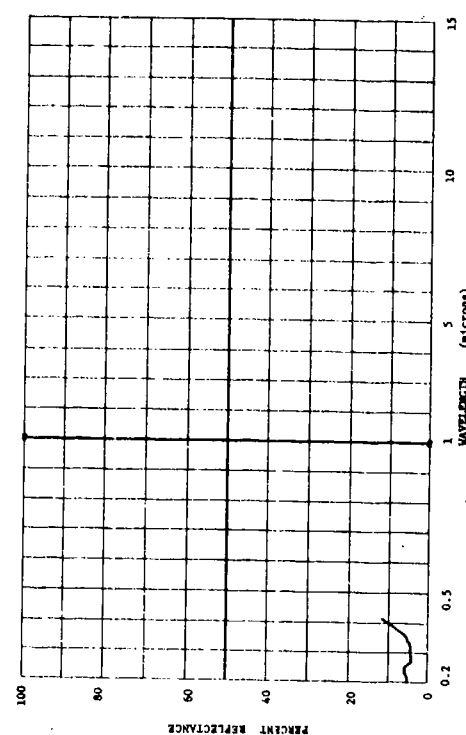
SUBJECT CODES

BQUBC BQF CDC CED DFPA DFCD DK ECAC ECAD ECB

PARAMETER INFORMATION

DATE=8 4 64 TIME= 14:00
DAYS RE= 3 IN= 14:00
OBS= 14:00
TEMP= 14:00

LAT= LONG= ALT= RANGE= 100
LAZ= CH= CAZ= 100
WIND SP= WIND DI= CLD= 100
N AVE= 1



CONFIDENTIAL

CONFIDENTIAL

BO 9

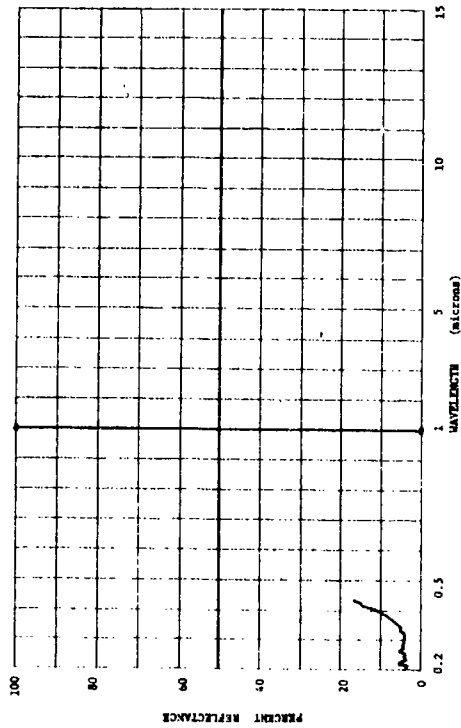
*814004-033 Degraded Leaf, 2 Days Old. (CONFIDENTIAL)

SUBJECT CODES

ECMA BCTEC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION
DATE=30 4 64 TIME=11
DATE RE=2
OBS=TTTTPP
TEMP=100
DEN PT=1

RANGE=100-1000
WAVELENGTH (microns)
VIS=100-1000



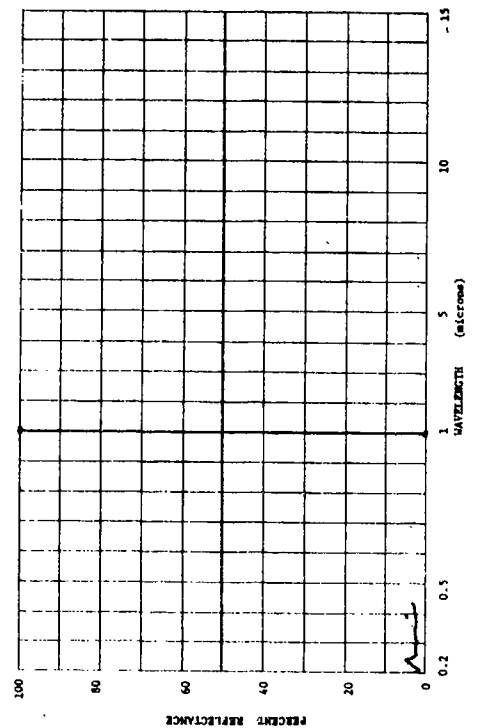
*814004-037 Degraded Leaf, 2 Days Old. (CONFIDENTIAL)

SUBJECT CODES

ECMA BCTEC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION
DATE=30 4 64 TIME=11
DATE RE=2
OBS=TTTTPP
TEMP=100
DEN PT=1

RANGE=100-1000
WAVELENGTH (microns)
VIS=100-1000



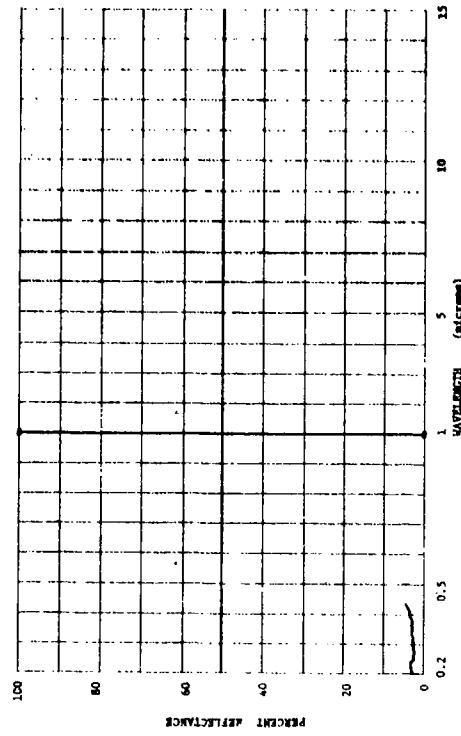
*814004-035 Degraded Leaf, Top. (CONFIDENTIAL)

SUBJECT CODES

ECMA BCTEC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION
DATE=30 4 64 TIME=11
DATE RE=2
OBS=TTTTPP
TEMP=100
DEN PT=1

RANGE=100-1000
WAVELENGTH (microns)
VIS=100-1000



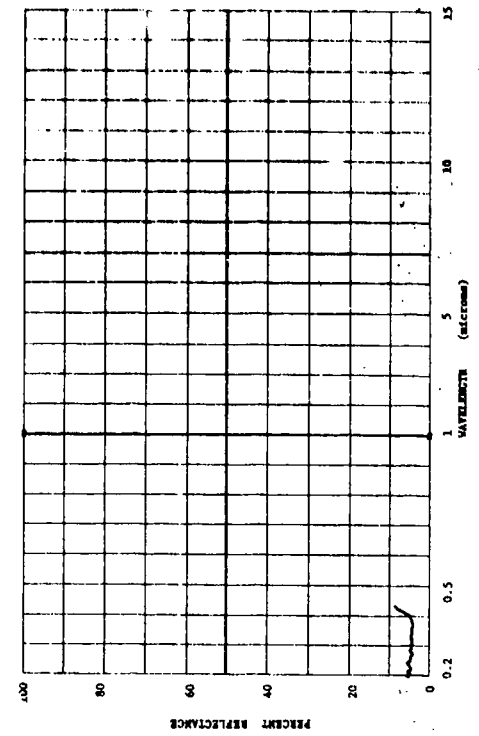
*814004-039 Degraded Leaf, Bottom. (CONFIDENTIAL)

SUBJECT CODES

ECMA BCTEC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION
DATE=30 4 64 TIME=11
DATE RE=2
OBS=TTTTPP
TEMP=100
DEN PT=1

RANGE=100-1000
WAVELENGTH (microns)
VIS=100-1000



CONFIDENTIAL

CONFIDENTIAL

BQ 10

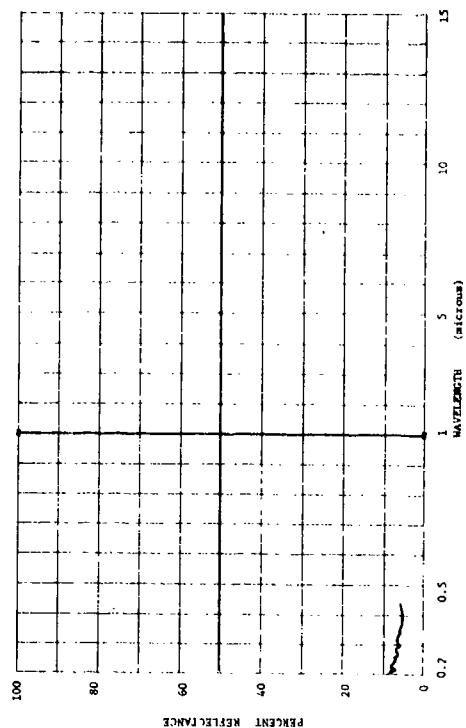
*814004-031 Azalea Leaf, Top. (CONFIDENTIAL)

SUBJECT CODES

BCDM BCFD CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION

DATE=2 4 4 TIME= ALT= RANG= 100
DAYS RE= 2 IM= CAZ= 100 E
ONST= WIND SP= WIND DI= 100
TEMP= DEN PT= N AVE= 1 VIS=



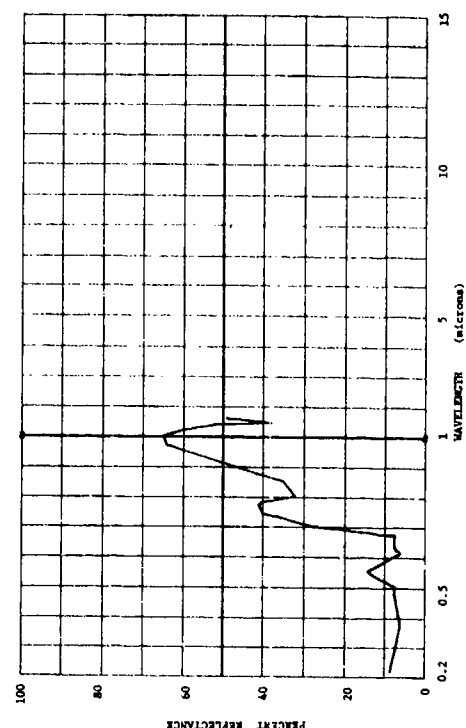
*814004-100 Azalea, 3-Mile in Lab After Picking. (CONFIDENTIAL)

SUBJECT CODES

BCDM BCFD CDC CED DFPA DPCD DK ECAC ECAD ECR

PARAMETER INFORMATION

DATE=2 6 4 TIME= ALT= RANG= 100
DAYS RE= 0 IM= CAZ= 100 E
ONST= WIND SP= WIND DI= 100
TEMP= DEN PT= N AVE= 1 VIS=



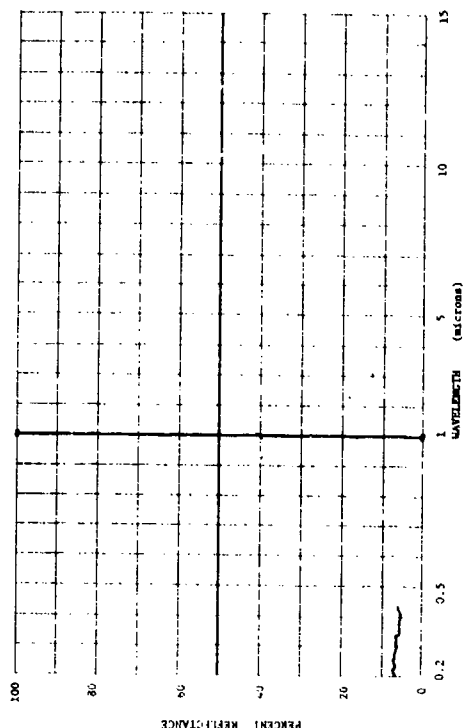
*814004-030 Azalea Leaf, Top. (CONFIDENTIAL)

SUBJECT CODES

BCDM BCFD CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION

DATE=2 4 4 TIME= ALT= RANG= 100
DAYS RE= 2 IM= CAZ= 100 E
ONST= WIND SP= WIND DI= 100
TEMP= DEN PT= N AVE= 1 VIS=



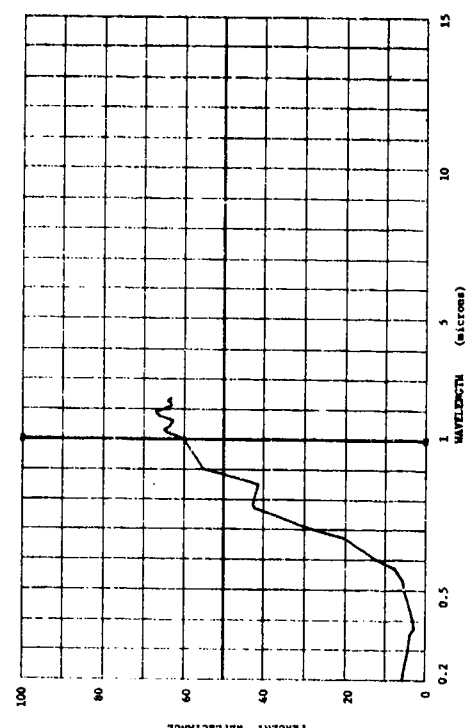
*814004-099 Azalea, 3 Days in Weather After Picking. (CONFIDENTIAL)

SUBJECT CODES

BCDM BCFD CDC CED DFPA DPCD DK ECAC ECAD ECR

PARAMETER INFORMATION

DATE=2 6 4 TIME= ALT= RANG= 100
DAYS RE= 1 IM= CAZ= 100 E
ONST= WIND SP= WIND DI= 100
TEMP= DEN PT= N AVE= 1 VIS=



CONFIDENTIAL

CONFIDENTIAL

BG 11

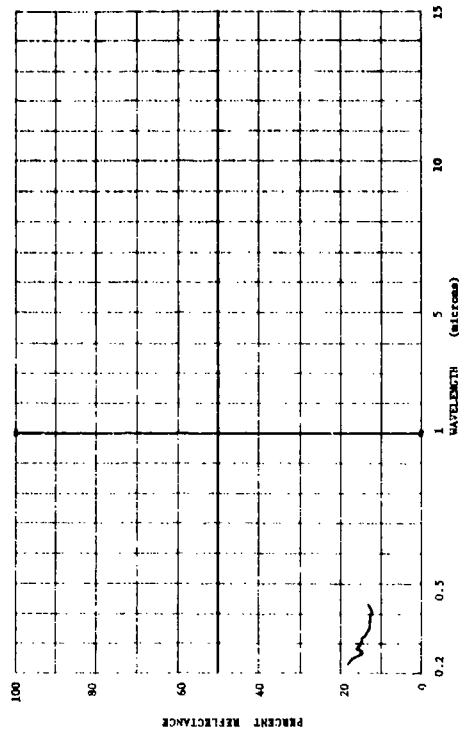
* B14004-023 Avocado Leaf, Top-About 4 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES

BCDP BCPC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION

DATE= 64 TIME= LONG= ALT= RANGE= 100-2
DAYS RE= 12m CH= CAC= 100-2
OBS= 12m WIND SP= WIND DI= 100-2
TEMP= 7% PT= 5 AVE= 1 VIS=



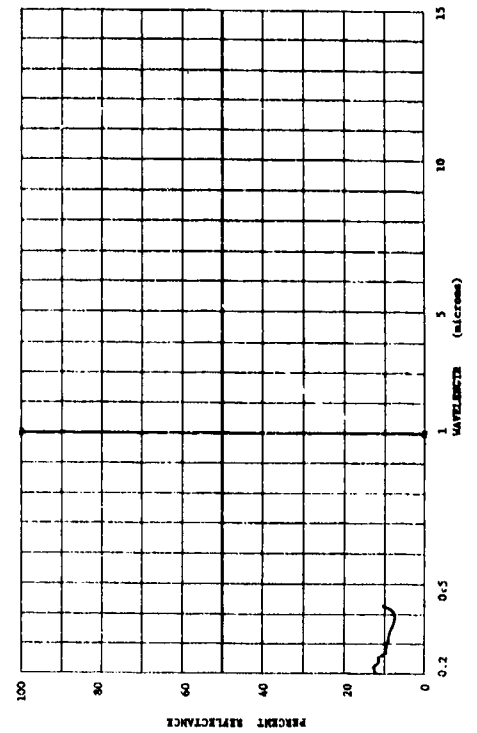
* B14004-025 Avocado Leaf, Bottom-About 2 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES

BCDP BCPC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION

DATE= 64 TIME= LONG= ALT= RANGE= 100-2
DAYS RE= 12m CH= CAC= 100-2
OBS= 12m WIND SP= WIND DI= 100-2
TEMP= 7% PT= 5 AVE= 1 VIS=



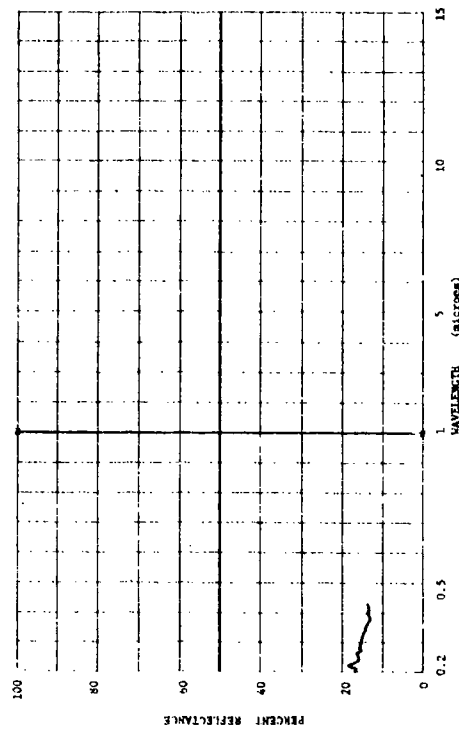
* B14004-022 Avocado Leaf, Top-About 2 Hrs. After Picking. (CONFIDENTIAL)

SUBJECT CODES

BCDP BCPC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION

DATE= 64 TIME= LONG= ALT= RANGE= 100-2
DAYS RE= 12m CH= CAC= 100-2
OBS= 12m WIND SP= WIND DI= 100-2
TEMP= 7% PT= 5 AVE= 1 VIS=



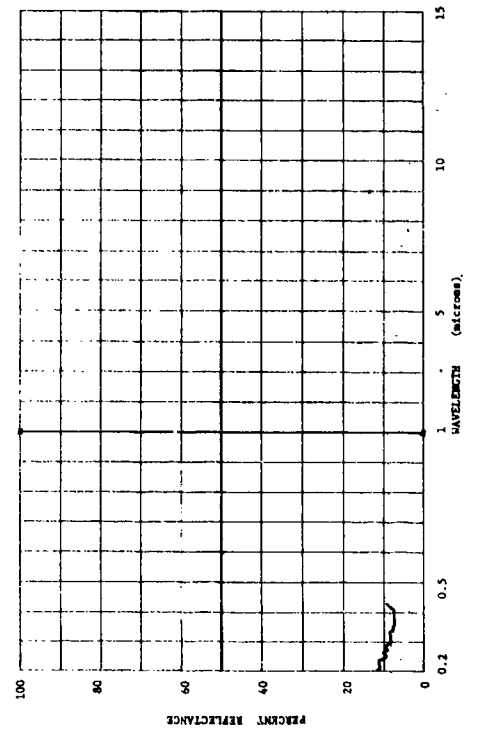
* B14004-024 Avocado Leaf, Bottom-About 2 Days Old. (CONFIDENTIAL)

SUBJECT CODES

BCDP BCPC CDC CED DFPA DPCD DK ECAC ECAD

PARAMETER INFORMATION

DATE= 64 TIME= LONG= ALT= RANGE= 100-2
DAYS RE= 2 CH= CAC= 100-2
OBS= 12m WIND SP= WIND DI= 100-2
TEMP= 7% PT= 5 AVE= 1 VIS=



CONFIDENTIAL

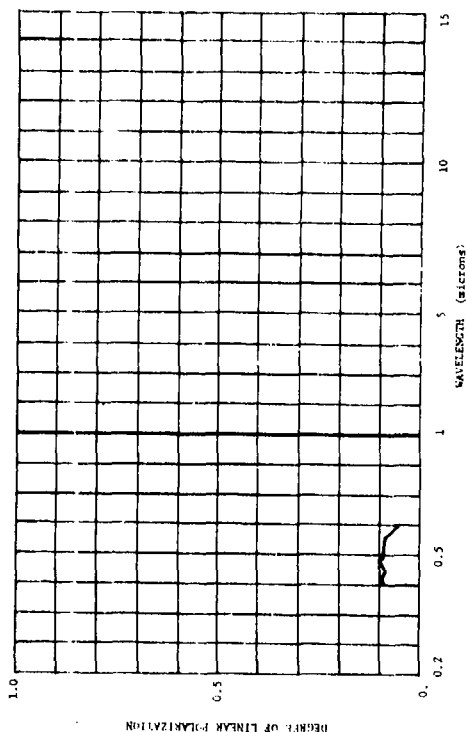
• B14004-026
Avocado Leaf, Top--About 2 Days Old. (CONFIDENTIAL)

SUBJECT CODES

SUBJECT CODES					
BCDA	CEC	QM	DUBC	DLF	ECB

PARAMETER INFORMATION

PARAMETER INFORMATION					
DATE=	TIME=	LAT=	LONG=	ALT=	RANGE=
MM-DD-YY	HH-MM-SS	N-L	E-W	M-A	KM-M
OBS=	TIMP=	LAZ= U	CN= 85	CAZ= 90	IRB= A
TEMP=	DEW PT=	WIND SP=	WIND D=	CLD=	VIS=
		N AVE= :			



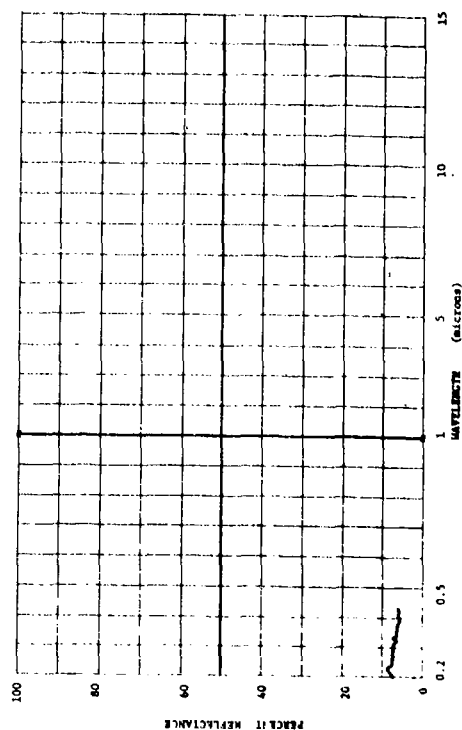
Japanese Plum Leaf, Top. (CONFIDENTIAL)

SUBJECT CODES

SUBJECT CODES	CEU	DFCS	DK	ELAC	ELAD
BCEAG	BCTED	CAC			

24 JAN 1972 12 00 GMT

PARAMETER INFORMATION	
DATE=80 4 6*	TIME=
DAYS RE= 2	I=
OBSI=	TIDP=
TIME=	DEM PT=
LAT=	LONG=
LAZ=	CN=
WIND SP=	WIND DI=
N AVE=)	CLD=
	ALT=
	CAZ=
	INR= E
	VIS=
	RANGE=



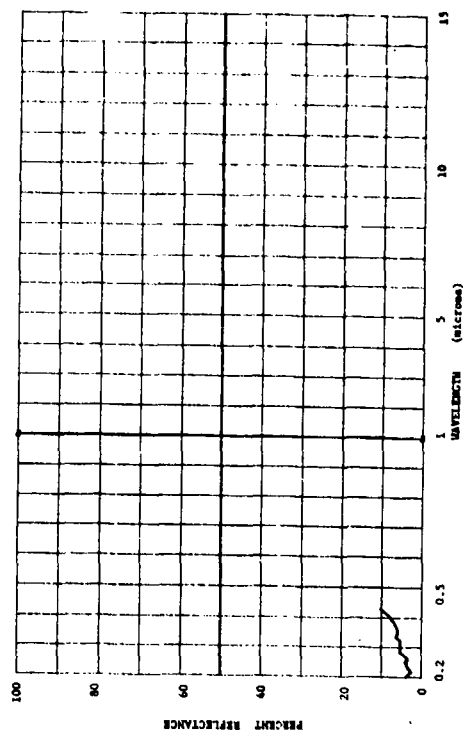
Japanese Plus Leaf, Bottom. (CONFIDENTIAL)

SUBJECT CODES

SUBJECT CODES	BCEAG	BGTBC	CDC	CLD	DPAA	DFCD	DK	ECAC	ECAD
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PARAMETER INFORMATION

PARAMETER INFORMATION					
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OBSY=	TIME=	VIND SP=	VIND DI=	CLD=	VIS=
TIME=	DEM YI=	N AVE= 1			



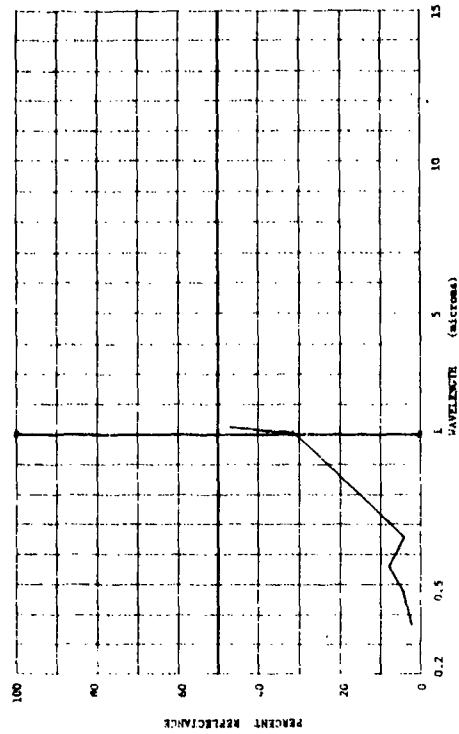
SECRET

BQ 13

• 813946-016 Light Green and Dark Green Leaves, Wet. (SECRET)

SUBJECT CODES
BGF BGCD CD DVA DFC DK ECAD ECH ECCA

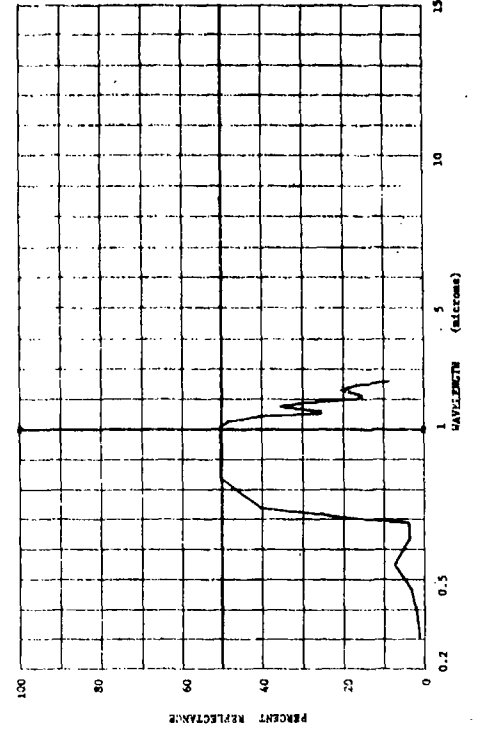
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LAT= 1000
LON= 1000
WIND SP= 1000
WIND DI= 1000
WIND S= 1000
WIND E= 1000
WIND V= 1000



• 813946-032 Plant Leaves. (SECRET)

SUBJECT CODES
BGF CD CEC DVA DFC DK ECAD ECH ECCA

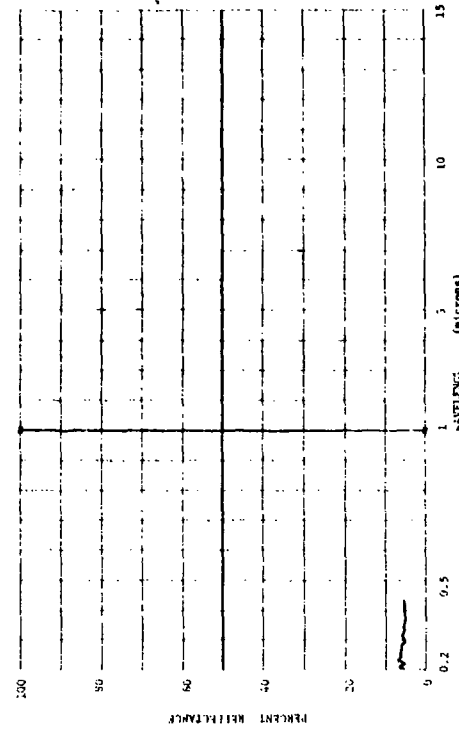
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DAYS RE= 1000
OBS= 1000
TEMP= 1000
LAT= 1000
LON= 1000
WIND SP= 1000
WIND DI= 1000
WIND S= 1000
WIND E= 1000
WIND V= 1000



• 813946-040 Japanese Plum Leaf. (CONFIDENTIAL)

SUBJECT CODES
BGZAC BGZCD CDC CED DVA DFC DK ECAD ECAD

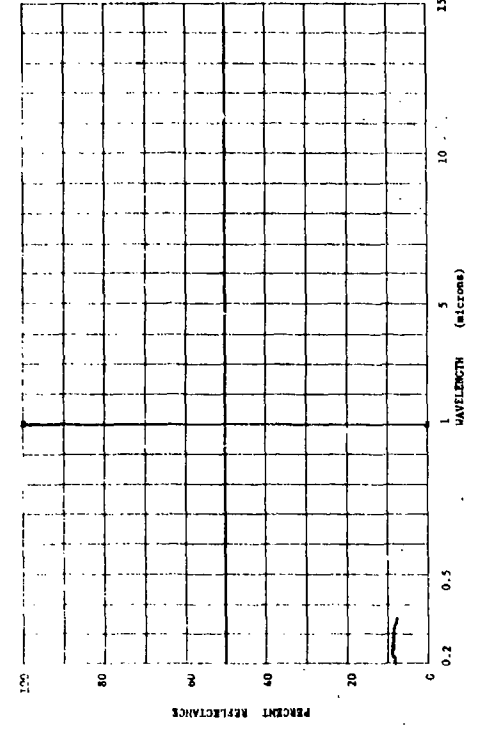
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DAYS RE= 1000
OBS= 1000
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LON= 1000
WIND SP= 1000
WIND DI= 1000
WIND S= 1000
WIND E= 1000
WIND V= 1000



• 813946-024 Palm Leaves. (SECRET)

SUBJECT CODES
BGF CDC CED DVA DFC DK ECAD ECAD

PARAMETER INFORMATION
DATE= 64 TIME= 1000
DAYS RE= 1000
OBS= 1000
TEMP= 1000
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LON= 1000
WIND SP= 1000
WIND DI= 1000
WIND S= 1000
WIND E= 1000
WIND V= 1000



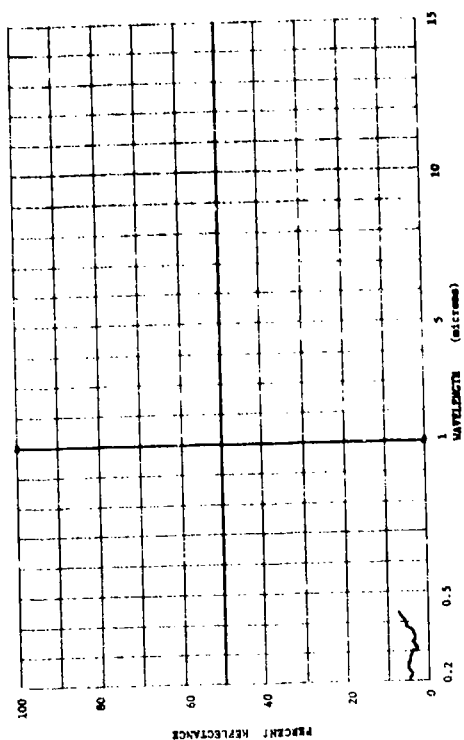
SECRET

Blondie Heart Leaf, 2 Days After Picking. (CONFIDENTIAL)

SUBJECT CODES

SUBJECT CODES	CTD	DTAA	DTCD	DK	ECAC	ECAD
100						
200						
300						
400						
500						
600						
700						
800						
900						

PARAMETER INFORMATION	
DATE= 64	TIME=
DAY= 2	HR=
SE=	TIME=
OBJ=	DEM PT=
TIME=	
LAT=	
LON=	
C=	
WIND DIR=	
WIND SP=	
N AVE= 1	
ALT=	
CAS=	
IFS= E	
VLS=	
RANGE=	

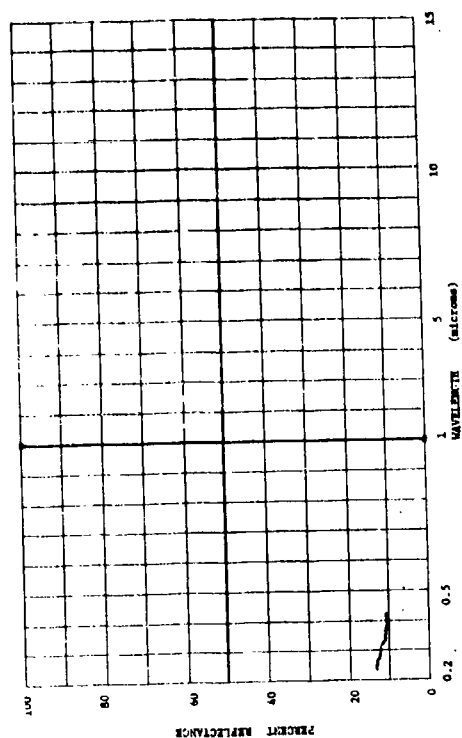


en 14-004-064

SUBJECT CODES

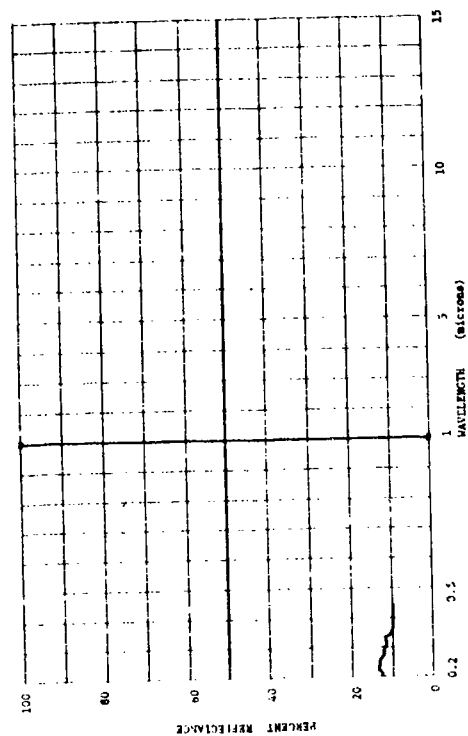
SUBJECT CODES	CPA	DSACO	DM	ECALC	ECAD
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100					

PARAMETER INFORMATION		LORNG		AL70		RUMCZ	
DATE=4	- 64	LAST		CAL		IRB= 1	
TIME=	18	VAL		CLD		WIS=	
DATE=	TIME=	WIND SP=		WIND 70=			
ORST=	TIME=	R AVG= 1					
TIME=	DEW PT=						



SUBJECT CODES
ICF CDC

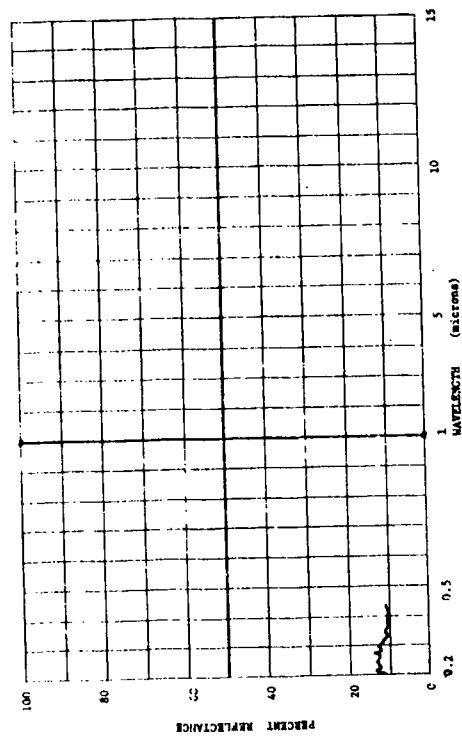
PARAMETER INFORMATION	
DATE= 64	TIME=
DAYS RE= 2	HR=
TIME=	TIME=
ORST=	ORST=
DEW PT=	DEW PT=
TEXT=	TEXT=
LAT=	LONG=
LAZ=	CH=
WIND SP=	WIND DI=
N AVE= 4	
ALT=	
CAZ=	
CLD=	
RANGE=	
IR= E	
VIS=	



CONFIDENTIAL

SUBJECT CODES

PARAMETER INFORMATION	
DATE=24	TIME
DAYS=5	IN=
DATA RE=	TIME=
ORBIT=	TEMP=
TEMP=	DEW PT=
	DEW I=
	E AVG=
	WIND SP=
	WIND DI=
LONG=	CH=
ALT=	CAZ=
	CLD=
BLANCE=	IR= E
	VIS=

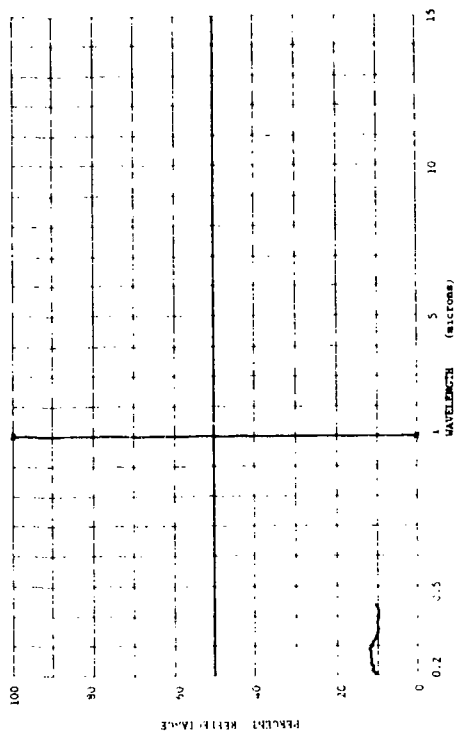


CONFIDENTIAL

*B14004-066 Punk Tree Leaf. (CONFIDENTIAL)

SUBJECT CODES
SGF CDC CED DFA DFCD DK ECAC ECAD

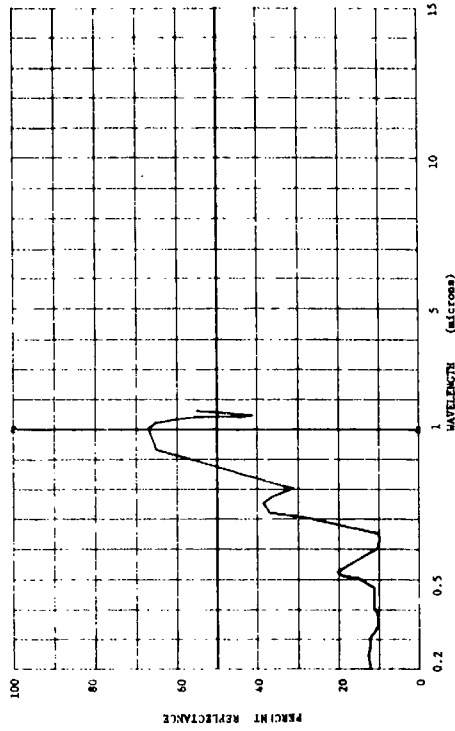
PARAMETER INFORMATION
DATE-24 04 TIME-1300
DAYS RE-1300
OBS-1300
TEMP-1300
DEN PT-1
N AVE-1
LAT-1300
LON-1300
ALT-1300
CAS-1300
CLD-1300
WIND DI-1300
WIND SP-1300
RANGE-1300
IR-1300
VIS-1300



*B14004-097 Lantana, 3-8 Hrs. In Lab After Picking. (CONFIDENTIAL)

SUBJECT CODES
SGF CDC CED DFA DFCD DK ECAC ECAD ECBB

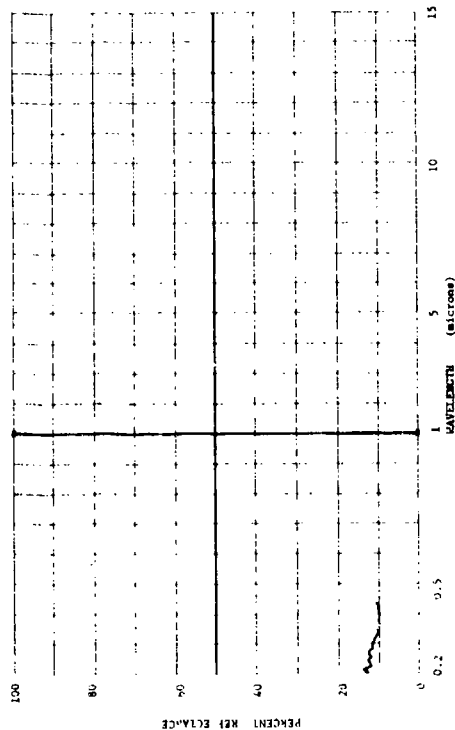
PARAMETER INFORMATION
DATE-24 04 TIME-1300
DAYS RE-1300
OBS-1300
TEMP-1300
DEN PT-1
N AVE-1
LAT-1300
LON-1300
ALT-1300
CAS-1300
CLD-1300
WIND DI-1300
WIND SP-1300
RANGE-1300
IR-1300
VIS-1300



*B14004-065 Punk Tree Leaf. (CONFIDENTIAL)

SUBJECT CODES
SGF LUL CED DFA DFCD DK ECAC ECAD

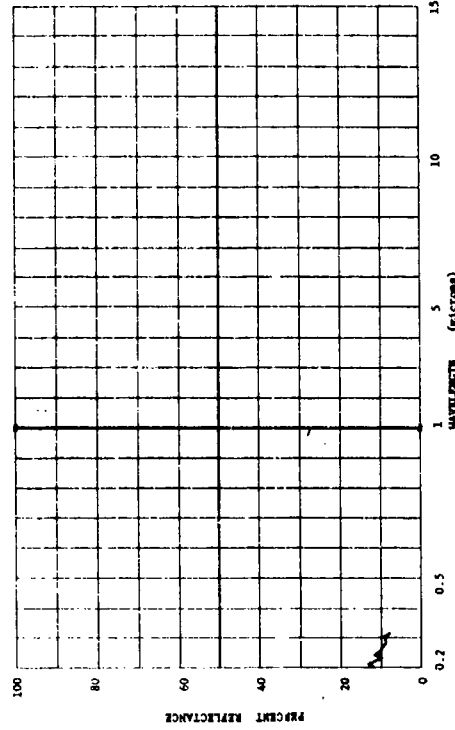
PARAMETER INFORMATION
DATE-24 04 TIME-1300
DAYS RE-1300
OBS-1300
TEMP-1300
DEN PT-1
N AVE-1
LAT-1300
LON-1300
ALT-1300
CAS-1300
CLD-1300
WIND DI-1300
WIND SP-1300
RANGE-1300
IR-1300
VIS-1300



*B14004-067 Punk Tree Leaf. (CONFIDENTIAL)

SUBJECT CODES
SGF CDC CED DFA DFCD DK ECAC ECAD

PARAMETER INFORMATION
DATE-24 04 TIME-1300
DAYS RE-1300
OBS-1300
TEMP-1300
DEN PT-1
N AVE-1
LAT-1300
LON-1300
ALT-1300
CAS-1300
CLD-1300
WIND DI-1300
WIND SP-1300
RANGE-1300
IR-1300
VIS-1300



CONFIDENTIAL

BH
BACKGROUNDS
Water

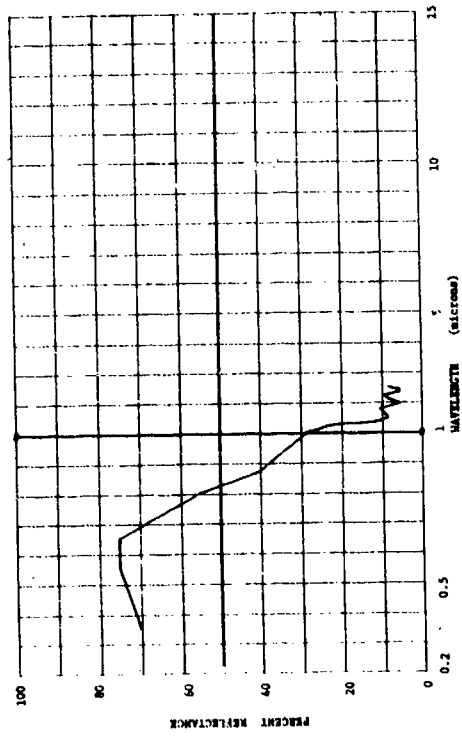
SECRET

001

• 113946-011 Smev. 01A. (SECRET)

SUBJECT CODES
M480 CD CEC DPA DPA LX ECD ECD ECD ECD

PARAMETER INFORMATION
DATE- 01 11-01-61
TIME- 1400
LAT- 30 00 N
LONG- 120 00 W
ALT- 10000 FT
CAL- 10000 FT
CIP- 10000 FT
VIB- 10000 FT
VIS- 10000 FT
WIND SP- 10 KTS
WIND DIR- 100
WAVE HT- 10 FT
WAVE PER- 10 S



SECRET

CJ
EQUIPMENT
Materials

The left hand column is an alphabetical listing of materials, or where there are data in this compilation. The right hand column contains the chapters where these data may be found.

Subject	Reference Subject Code	Subject	Reference Subject Code
Airplane Cloth	Clothing AAKA	Iridate	Paint AEM
Alfalfa	Vegetation BG	Iron	Metal AEL
Aluminum	Aluminum AKA Equipment Materials CJ Paint AEM	Japanese Plum	Vegetation BG
Aluminum Foil	Aluminum AKA	Khaki	Clothing AAKA
Aluminum Mirror	Equipment Materials CJ	Lantana	Vegetation BG
Aluminum Paint	Paint AEM	Laquer	Paint AEM
Asphalt	Asphalt AEB	Lava	Soil BF
Avocado	Vegetation BG	Leaves	Vegetation BG
Avocado	Vegetation BG	Limestone	Soil BF
Basalt	Soil BF	Magnesium Carbonate	Equipment Materials CJ
Bleeding Heart	Vegetation BG	Magnesium Oxide	Equipment Materials CJ
Boston Fern	Vegetation BG	Marble	Soil BF
Brass	Metal AEL	Marine Green	Paint AEM
Brick	Brick AEC	Metal	Aluminum AEA Galvanized Steel AFI Metal AEL
Buna-N	Rubber AEP	Neoprene	Rubber AEP
Butyl	Rubber AEP	Oak	Vegetation BG
Camouflage	Clothing AAKA Paint AEM	Olive Drab	Clothing AAKA Paint AEM Plastic AEO Rubber AEP
Cement	Concrete AEG		
Ceramic	Tile AER	Ore	Soil BF
Charcoal	Wood AET	Pine	Vegetation BG
Chrome	Metal AEL	Plywood	Wood AET
Clay	Soil BF	Poplin	Clothing AAKA
Cloth	Clothing AAKA	Primer	Paint AEM
Clothing	Clothing AAKA Plastic AEO Rubber AEP	Punk	Vegetation BG
Concrete	Concrete AEG	Rice	Vegetation BG
Conifers	Vegetation BG	Roads	Asphalt AEB Concrete AEG Dirt AEM Tar AEO
Coral	Soil BF	Rock	Soil BF
Cotton	Clothing AAKA	Rubber	Rubber AEP
Cotton Duck	Clothing AAKA	Rust	Metal AEL
Dirt	Paint AEM Soil BF Wood AET	Sand	Soil BF Tar AEO
Dogwood	Vegetation BG	Sandy Loam	Soil BF
Elephant Ear	Vegetation BF	Shale	Soil BF
Enamel	Paint AEM	Silicone	Plastic AEO
Feldspar	Soil BF	Slag	Soil BF
Galvanized Steel	Galvanized Steel AEL	Snow	Water BH
Granite	Soil BF	Soil	Soil BF
Graphite	Soil BF	Steel	Metal AEL
Grass	Vegetation BG	Tanka	Paint AEM
Gravel	Tar AEO	Tar	Tar AEO
GR-5	Rubber AEP	Tin	Metal AEL

Subject	Reference Subject Code	Material	Reference Subject Code
Trunks	Paint ABM	Vegetation	Vegetation B.
Twigs	Vegetation BG	Vinyl	Plastic AB
Uniforms	Clothing AAKA	Woods	Vegetation B.
	Plastic ABO	Wood	Wood AET
	Rubber ABP	Wool	Clothing AAKA
Uranium	Soil BF		

AAKA CLOTHING, PERSONNEL, GROUND TARGETS, TARGETS

H-13501 C51	AAKA	1
B-13501 C61	AAKA	1
H-13501 C65	AAKA	1
B-13501 C73	AAKA	1
H-13501 C74	AAKA	2
B-13501 C75	AAKA	2
H-13501 C76	AAKA	2
B-13501 C77	AAKA	2
H-13501 C78	AAKA	3
B-13501 C79	AAKA	3
H-13501 C80	AAKA	3
B-13501 C81	AAKA	3
H-13501 C82	AAKA	4
B-13501 C83	AAKA	4
H-13501 C84	AAKA	4
B-13501 C85	AAKA	4
H-13501 C86	AAKA	5
B-13501 C87	AAKA	5
H-13501 C88	AAKA	5
B-14004 C86	AAKA	5
H-14004 C87	AAKA	6

AAKF TRUCKS, VEHICLES, GROUND TARGETS, TARGETS

B-13864 C08	AEM	2
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AEA ALUMINUM, MATERIALS, TARGETS

H-13501 C20	CJ	1
B-13501 C45	AEA	1
B-13546 C02	AEA	1

AEB ASPHALT, MATERIALS, TARGETS

B-13546 C08	AEB	1
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AEC BRICK, MATERIALS, TARGETS

B-13546 C01	AEC	1
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AEG CONCRETE, MATERIALS, TARGETS

H-13546 C04	AEG	1
B-14004 C13	AEG	1
B-14004 C14	AEG	1
B-14004 C15	AEG	1
H-14004 C17	AEG	2
B-14004 C19	AEG	2
H-14004 C55	AEG	2

AEM DIRT, MATERIALS, TARGETS

H-13564 C08	AEM	2
B-13546 C05	AEM	1
B-13546 C20	AEM	33
H-13546 C26	AET	2
H-14004 C08	AET	3

AEI GALVANIZED STEEL, MATERIALS, TARGETS

B-13501 C18	AEI	1
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AEL METAL, MATERIALS, TARGETS

B-13501 C01	AEM	18
H-13501 C02	AEM	18
B-13501 C03	AEM	18
H-13501 C04	AEM	18
B-13501 C05	AEM	19
H-13501 C06	AEM	35
B-13501 C07	AEM	19
B-13501 C08	AEM	36
H-13501 C09	AEM	13
B-13501 C10	AEM	36
H-13501 C11	AEM	36
B-13501 C12	AEM	37
H-13501 C13	AEM	1
B-13501 C14	AEM	19
H-13501 C15	AEM	13
B-13501 C16	AEM	1
H-13501 C17	AEM	1
B-13501 C28	AER	1
H-13501 C29	AER	1
B-13501 C30	AER	1
H-13501 C31	AER	1
B-13501 C32	AER	2
H-13501 C33	AER	2
B-13501 C34	AER	2
H-13501 C35	AER	2
B-13501 C36	AEM	1
H-13501 C37	AEM	2
B-13501 C38	AEL	1
H-13501 C39	AEL	1

B-13501 C40	AEL	1
B-13501 C41	AEL	1
B-13501 C42	AEL	2
H-13501 C43	AEL	2
B-13501 C44	AEL	2
B-13621 C01	AEM	19
B-13621 C02	AEM	20
B-13621 C03	AEM	20
B-13946 C06	AEL	2
B-13946 C07	AEM	11
B-13946 C09	AEM	33
B-13946 C20	AEM	33
B-13946 C21	AEM	37
B-13946 C22	AEM	36
B-13946 C23	AEM	33
B-13946 C30	AEM	33
B-14004 C03	AEM	34
B-14004 C05	AEL	3
B-14004 C59	AEL	3
B-14004 C77	AEM	12
H-14004 C78	AEM	12
B-14004 C79	AEM	13
B-14004 C80	AEM	17

AEM PAINT, MATERIALS, TARGETS

B-13501 C13	AEM	1
B-13501 C16	AEM	1
B-13501 C17	AEM	1
B-13501 C36	AEM	1
B-13501 C37	AEM	2
B-13864 C08	AEM	2
B-13864 C19	AEM	2
B-13864 C20	AEM	2
B-13864 C21	AEM	3
B-13864 C22	AEM	3
B-13864 C23	AEM	3
B-13864 C24	AEM	3
B-13864 C49	AEM	4
B-13864 C50	AEM	4
B-13864 C51	AEM	4
H-13864 C52	AEM	4
B-13864 C53	AEM	5
B-13864 C54	AEM	5
B-13864 C55	AEM	5
H-13864 C56	AEM	5
B-13864 C57	AEM	6
B-13864 C58	AEM	6
B-13864 C59	AEM	6
B-13864 C60	AEM	6
B-13864 C61	AEM	7
B-13864 C62	AEM	7
B-13864 C63	AEM	7
B-13864 C79	AEM	7
B-13864 C80	AEM	8
B-13864 C81	AEM	8
B-13864 C82	AEM	8
B-13864 C83	AEM	8
B-13864 C84	AEM	9
B-13864 C85	AEM	9
B-13864 C86	AEM	9
H-13864 C87	AEM	9
B-13864 C88	AEM	10
B-13864 C89	AEM	10
B-13864 C90	AEM	10
B-13864 C91	AEM	10
B-13946 C07	AEM	11
B-14004 C68	AEM	11
B-14004 C69	AEM	11
B-14004 C70	AEM	11
B-14004 C73	AEM	12
B-14004 C75	AEM	12
B-14004 C77	AEM	12
B-14004 C78	AEM	12
B-14004 C79	AEM	13

AEPA WHITE PIGMENTS, PAINT, MATERIALS, TARGETS

H-13501 C09	AEM	13
B-13501 C15	AEM	13
B-13864 C34	AEM	13
B-13864 C35	AEM	14
B-13864 C36	AEM	14
B-13864 C37	AEM	14
B-13864 C38	AEM	14
B-13864 C39	AEM	15
B-13864 C40	AEM	15
B-13864 C41	AEM	15

	B-13864	Q42	AEM	15			
	B-13864	Q43	AEM	16			
	B-13864	Q44	AEM	16			
	B-13864	Q45	AEM	16			
	B-13864	Q46	AEM	16			
	B-13864	Q47	AEM	17			
	B-13864	Q48	AEM	17			
	B-14004	Q72	AEM	17			
	B-14004	Q80	AEM	17			
AEMAC	TITANIUM DIOXIDE, WHITE PIGMENTS, PAINT, MATERIALS, TARGETS						
	B-13501	OC8	AEM	36			
AEMB	GREEN PIGMENTS, PAINT, MATERIALS, TARGETS						
	B-13501	CO1	AEM	18			
	B-13501	CO2	AEM	18			
	B-13501	CO3	AEM	18			
	B-13501	CO4	AEM	18			
	B-13501	CO5	AEM	19			
	B-13501	CO7	AEM	19			
	B-13501	CO14	AEM	19			
	B-13621	CO1	AEM	19			
	B-13621	CO2	AEM	20			
	B-13621	CO3	AEM	20			
	B-13864	CO1	AEM	20			
	B-13864	CO2	AEM	20			
	B-13864	CO3	AEM	21			
	B-13864	C25	AEM	21			
	B-13864	C26	AEM	21			
	B-13864	C27	AEM	21			
	B-13864	C28	AEM	22			
	B-13864	C29	AEM	22			
	B-13864	C30	AEM	22			
	B-13864	C31	AEM	22			
	B-13864	C32	AEM	23			
	B-13864	C33	AEM	23			
	B-13864	C64	AEM	23			
	B-13864	C65	AEM	23			
	B-13864	C66	AEM	24			
	B-13864	C67	AEM	24			
	B-13864	C68	AEM	24			
	B-13864	C69	AEM	24			
	B-13864	C70	AEM	25			
	B-13864	C71	AEM	25			
	B-13864	C72	AEM	25			
	B-13864	C73	AEM	25			
	B-13864	C74	AEM	26			
	B-13864	C75	AEM	26			
	B-13864	C76	AEM	26			
	B-13864	C77	AEM	26			
	B-13864	C78	AEM	27			
	B-13864	C92	AEM	27			
	B-13864	C93	AEM	27			
	B-13864	C94	AEM	27			
	B-13864	C95	AEM	28			
	B-13864	C96	AEM	28			
	B-13864	C97	AEM	28			
	B-13864	C98	AEM	28			
	B-13864	C99	AEM	29			
	B-13864	100	AEM	29			
	B-13864	101	AEM	29			
	B-13864	102	AEM	29			
	B-13864	103	AEM	30			
	B-13864	104	AEM	30			
	B-13864	105	AEM	30			
	B-13864	106	AEM	30			
	B-13864	107	AEM	31			
	B-13864	108	AEM	31			
	B-13864	109	AEM	31			
	B-13864	110	AEM	31			
	B-13864	111	AEM	32			
	B-13864	112	AEM	32			
	B-13864	113	AEM	32			
	B-13864	114	AEM	32			
	B-13946	CO9	AEM	33			
	B-13946	CO20	AEM	33			
	B-13946	CO23	AEM	33			
	B-13946	CO30	AEM	33			
	B-14004	CO2	AEM	34			
	B-14004	CO3	AEM	34			
	B-14004	CO4	AEM	34			
	B-14004	C54	AEM	34			
	B-14004	C71	AEM	35			
	B-14004	C74	AEM	35			
	B-14004	C76	AEM	35			
AEMC	RED PIGMENTS, PAINT, MATERIALS, TARGETS						
	B-13501	CO6	AEM	35			
AEMD	METALLIC PIGMENTS, PAINT, MATERIALS, TARGETS						
	B-13946	CO22	AEM	36			
AEMDA	ALUMINUM POWDER, METALLIC PIGMENTS, PAINT, MATERIALS, TARGETS						
	B-13501	CO10	AEM	36			
	B-13501	CO11	AEM	36			
	B-13501	CO12	AEM	37			
AEMF	DRIERS, THINNERS, MEDIUMS, PAINT, MATERIALS, TARGETS						
	B-13946	CO21	AEM	37			
AEO	PLASTIC, MATERIALS, TARGETS						
	B-13501	CO48	AEO	1			
	B-13501	CO47	AEO	1			
	B-13501	CO48	AEO	1			
	B-13501	CO49	AEO	1			
	B-13501	CO59	AEO	2			
	B-13501	CO60	AEO	2			
	B-13501	CO70	AEO	2			
	B-13501	CO72	AEO	2			
AEP	RUBBER, MATERIALS, TARGETS						
	B-13501	CO50	AEP	1			
	B-13501	CO51	AEP	1			
	B-13501	CO52	AEP	1			
	B-13501	CO53	AEP	1			
	B-13501	CO54	AEP	1			
	B-13501	CO55	AEP	2			
	B-13501	CO56	AEP	2			
	B-13501	CO57	AEP	2			
	B-13501	CO58	AEP	2			
	B-13501	CO62	AEP	3			
	B-13501	CO63	AEP	3			
	B-13501	CO64	AEP	3			
	B-13501	CO66	AEP	3			
	B-13501	CO67	AEP	4			
	B-13501	CO68	AEP	4			
	B-13501	CO69	AEP	4			
	B-13501	CO71	AEP	4			
	B-13501	CO69	AEP	5			
AEQ	TAR, MATERIALS, TARGETS						
	B-13946	CO3	AEQ	1			
	B-14004	CO10	AEQ	1			
	B-14004	CO56	AEQ	1			
AER	TILE, MATERIALS, TARGETS						
	B-13501	CO28	AER	1			
	B-13501	CO29	AER	1			
	B-13501	CO30	AER	1			
	B-13501	CO31	AER	1			
	B-13501	CO32	AER	2			
	B-13501	CO33	AER	2			
	B-13501	CO34	AER	2			
	B-13501	CO35	AER	2			
AET	WOOD, MATERIALS, TARGETS						
	B-13501	CO21	AET	1			
	B-13501	CO22	AET	1			
	B-13501	CO23	AET	1			
	B-13501	CO24	AET	1			
	B-13501	CO25	AET	2			
	B-13501	CO26	AET	2			
	B-13501	CO27	AET	2			
	B-13946	CO26	AET	2			
	B-14004	CO2	AEM	34			
	B-14004	CO4	AEM	34			
	B-14004	CO8	AET	3			
	B-14004	CO9	AET	3			
	B-14004	C54	AEM	34			
	B-14004	C57	AET	3			
	B-14004	C58	AET	3			
	B-14004	C60	AET	4			
	B-14004	C68	AEM	11			
	B-14004	C69	AEM	11			
	B-14004	CO70	AEM	11			
	B-14004	CO71	AEM	35			
	B-14004	CO72	AEM	17			
	B-14004	CO73	AEM	12			
	B-14004	CO74	AEM	35			
	B-14004	CO75	AEM	12			
	B-14004	CO76	AEM	35			
BF	SOIL, BACKGROUND						
	B-13864	CO4	BF	1			
	B-13946	CO11	BF	1			

		B-13946 C12	BF	1			B-14004 044	BG	7
		B-13946 C13	BF	1			B-14004 045	BG	8
		B-13946 C35	BF	2			B-14004 103	BG	8
							B-14004 104	BG	8
BPCA	SAND, COARSE-TEXTURED, SOIL, BACKGROUND					BGMA	DOGWOOD, DOGWOOD FAMILY, LIGNEOUS, VEGETATION, BACKGROUND		
		B-13864 C04	BF	1			B-14004 C32	BG	8
		B-13864 C09	BF	2			B-14004 C33	BG	9
		B-13946 C10	BF	2			B-14004 C35	BG	9
		B-13946 C19	BG	1			B-14004 C37	BG	9
		B-14004 C10	AEQ	1					
		B-14004 C23	BF	3		BGDM	HEATH FAMILY (CF. HERBACEOUS), LIGNEOUS, VEGETATION, BACKGROUND		
		B-14004 C28	BF	3			B-14004 C29	BG	9
BFC	MODERATELY COARSE-TEXTURED, SOIL, BACKGROUND						B-14004 C30	BG	10
		B-14004 C81	BF	3			B-14004 C31	BG	10
BPCA	SANDY LOAM, MODERATELY COARSE-TEXTURED, SOIL, BACKGROUND						B-14004 C99	BG	10
		B-13946 C34	BF	3			B-14004 100	BG	10
BFGC	CLAY, FINE-TEXTURED, SOIL, BACKGROUND					BGCP	LAUREL FAMILY, LIGNEOUS, VEGETATION, BACKGROUND		
		B-13946 C15	BF	4			B-14004 C22	BG	11
		B-14004 C62	BF	4			B-14004 C23	BG	11
BFH	OTHER CONSTITUENTS, SOIL, BACKGROUND						B-14004 C24	BG	11
		B-14004 C11	BF	4			B-14004 C25	BG	11
		B-14004 C12	BF	4			B-14004 C26	BG	12
		B-14004 C84	BF	5		BGDX	PINE FAMILY, LIGNEOUS, VEGETATION, BACKGROUND		
		B-14004 C85	BF	5			B-13864 C05	BG	12
		B-14004 C86	BF	5		BGEAG	PLUM, ROSE FAMILY, LIGNEOUS, VEGETATION, BACKGROUND		
		B-14004 C87	BF	5			B-14004 C38	BG	12
		B-14004 C89	BF	6			B-14004 C39	BG	12
		B-14004 C91	BF	6			B-14004 C40	BG	13
		B-14004 C92	BF	6		BGF	LEAF, VEGETATION, BACKGROUND		
		B-14004 C93	BF	6			B-13946 C16	BG	13
		B-14004 C94	BF	7			B-13946 C17	BG	1
		B-14004 C95	BF	7			B-13946 C18	BG	1
		B-14004 C96	BF	7			B-13946 C24	BG	13
BFPD	STONES (GREATER THAN 10 INCH DIAMETER), OTHER CONSTITUENTS, SOIL, BACKGROUND						B-13946 C32	BG	13
		B-14004 C61	BF	7			B-14004 C20	BG	6
		B-14004 C90	BF	8			B-14004 C21	BG	6
BGC	VASCULAR, HERBACEOUS, VEGETATION, BACKGROUND						B-14004 C27	BG	14
		B-13864 C06	BG	1			B-14004 C28	BG	14
		B-13946 C17	BG	1			B-14004 C46	BG	14
		B-13946 C18	BG	1			B-14004 C48	BG	3
		B-13946 C19	BG	1			B-14004 C49	BG	14
		B-13946 C25	BG	2			B-14004 C50	BG	15
		B-13946 C27	BG	2			B-14004 C52	BG	15
		B-13946 C29	BG	2			B-14004 C53	BG	3
		B-14004 C19	BG	2			B-14004 C63	BG	15
BGCA	BANANA FAMILY, VASCULAR, HERBACEOUS, VEGETATION, BACKGROUND						B-14004 C64	BG	15
		B-14004 C82	BF	2			B-14004 C65	BG	16
BGCMK	RICE, GRASS FAMILY, VASCULAR, HERBACEOUS, VEGETATION, BACKGROUND						B-14004 C66	BG	16
		B-14004 C48	BG	3			B-14004 C67	BG	16
		B-14004 C53	BG	3			B-14004 C97	BG	16
		B-14004 C51	BG	3			B-14004 C98	BG	17
		B-14004 C52	BG	3			B-14004 C99	BG	10
BGCRA	ALFALFA, PEA (PULSE) FAMILY, HERBACEOUS, VASCULAR, VEGETATION, BACKGROUND						B-14004 100	BG	10
		B-13864 C07	BG	4			B-14004 101	BG	3
		B-13864 C10	BG	4			B-14004 102	BG	3
		B-13864 C11	BG	4			B-14004 103	BG	8
		B-13864 C12	BG	4			B-14004 104	BG	8
		B-13864 C13	BG	5			B-14004 105	BG	17
		B-13864 C14	BG	5			B-14004 106	BG	17
		B-13864 C15	BG	5			B-14004 107	BG	17
		B-13864 C16	BG	5			B-14004 108	BG	18
		B-13864 C17	BG	6			B-14004 109	BG	18
		B-13864 C18	BG	6			B-14004 110	BG	18
BGCBC	CAK, BEECH FAMILY, LIGNEOUS, VEGETATION, BACKGROUND					BGFBC	VENTRAL SIDE, BROAD, LEAF, VEGETATION, BACKGROUND		
		B-14004 C20	BG	6			B-14004 C25	BG	11
		B-14004 C21	BG	6			B-14004 C29	BG	9
		B-14004 C24	BG	11			B-14004 C32	BG	8
		B-14004 C41	BG	7			B-14004 C33	BG	9
		B-14004 C42	BG	7			B-14004 C38	BG	12
		B-14004 C43	BG	7			B-14004 C41	BG	7
							B-14004 C43	BG	7
							B-14004 C44	BG	7
BGFBD	DORSAL SIDE, BROAD, LEAF, VEGETATION, BACKGROUND								
		B-14004 C22	BG	11					
		B-14004 C23	BG	11					

B-14004 C26	BG	12
B-14004 C30	BG	10
B-14004 C31	BG	10
B-14004 C35	PG	9
B-14004 C37	BG	9
B-14004 C39	BG	12
B-14004 C40	BG	13
B-14004 C42	BG	7
B-14004 C45	BG	8
BCFF	DRY, LEAF, VEGETATION, BACKGROUND	
B-14004 C19	BG	2
BGM	TMIG, VEGETATION, BACKGROUND	
B-13946 C18	BG	1
BHBD	SNOW, STATE, WATER, BACKGROUND	
B-13946 C31	BH	1
CD	SPECTROMETER, EQUIPMENT	
B-13621 C01	AEM	19
B-13621 C02	AEM	20
B-13621 C03	AEM	20
B-13946 C01	AEC	1
B-13946 C02	AEA	1
B-13946 C03	AEQ	1
B-13946 C04	AEQ	1
B-13946 C05	AEM	1
B-13946 C06	AEL	2
B-13946 C07	AEM	11
B-13946 C08	AEB	1
B-13946 C09	AEM	33
B-13946 C10	BF	2
B-13946 C11	BF	1
B-13946 C12	BF	1
B-13946 C13	BF	1
B-13946 C15	BF	4
B-13946 C16	BG	13
B-13946 C17	BG	1
B-13946 C18	BG	1
B-13946 C19	BG	1
B-13946 C20	AEM	33
B-13946 C27	BG	2
B-13946 C29	BG	2
B-13946 C30	AEM	33
B-13946 C31	BH	1
B-13946 C32	BG	13
B-13946 C34	BF	3
B-13946 C35	BF	2
B-14004 C01	CJ	1
B-14004 C54	AEM	34
B-14004 C55	AEQ	2
B-14004 C56	AEQ	1
B-14004 C57	AET	3
B-14004 C58	AET	3
B-14004 C59	AEL	3
B-14004 C60	AET	4
B-14004 C61	BF	7
B-14004 C62	BF	4
B-14004 C68	AEM	11
B-14004 C69	AEM	11
B-14004 C70	AEM	11
B-14004 C71	AEM	35
B-14004 C72	AEM	17
B-14004 C73	AEM	12
B-14004 C74	AEM	35
B-14004 C75	AEM	12
B-14004 C76	AEM	35
B-14004 C77	AEM	12
B-14004 C78	AEM	12
B-14004 C79	AEM	13
B-14004 C80	AEM	17
CDC	PERKIN-ELMER, SPECTROMETER, EQUIPMENT	
B-13501 C01	AEM	18
B-13501 C02	AEM	18
B-13501 C03	AEM	18
B-13501 C04	AEM	18
B-13501 C05	AEM	19
B-13501 C06	AEM	35
B-13501 C07	AEM	19
B-13501 C08	AEM	36
B-13501 C09	AEM	13
B-13501 C10	AEM	36
B-13501 C11	AEM	36
B-13501 C12	AEM	37
B-13501 C13	AEM	1
B-13501 C14	AEM	19
B-13501 C15	AEM	13

B-13501 C16	AEM	1
B-13501 C17	AEM	1
B-13501 C18	AEL	1
B-13501 C19	CJ	1
B-13501 C20	CJ	1
B-13501 C21	AET	1
B-13501 C22	AET	1
B-13501 C23	AET	1
B-13501 C24	AET	1
B-13501 C25	AET	2
B-13501 C26	AET	2
B-13501 C27	AET	2
B-13501 C28	AER	1
B-13501 C29	AER	1
B-13501 C30	AER	1
B-13501 C31	AER	1
B-13501 C32	AER	2
B-13501 C33	AER	2
B-13501 C34	AER	2
B-13501 C35	AER	2
B-13501 C36	AEM	1
B-13501 C37	AEM	2
B-13501 C38	AEL	1
B-13501 C39	AEL	1
B-13501 C40	AEL	1
B-13501 C41	AEL	1
B-13501 C42	AEL	2
B-13501 C43	AEL	2
B-13501 C44	AEL	2
B-13501 C45	AEA	1
B-13501 C46	AEO	1
B-13501 C47	AEO	1
B-13501 C48	AEO	1
B-13501 C49	AEO	1
B-13501 C50	AEP	1
B-13501 C51	AAKA	1
B-13501 C52	AEP	1
B-13501 C53	AEP	1
B-13501 C54	AEP	1
B-13501 C55	AEP	2
B-13501 C56	AEP	2
B-13501 C57	AEP	2
B-13501 C58	AEP	2
B-13501 C59	AEO	2
B-13501 C60	AEO	2
B-13501 C61	AAKA	1
B-13501 C62	AEP	3
B-13501 C63	AEP	3
B-13501 C64	AEP	3
B-13501 C65	AAKA	1
B-13501 C66	AEP	3
B-13501 C67	AEP	4
B-13501 C68	AEP	4
B-13501 C69	AEP	4
B-13501 C70	AEO	2
B-13501 C71	AEP	4
B-13501 C72	AEO	2
B-13501 C73	AAKA	1
B-13501 C74	AAKA	2
B-13501 C75	AAKA	2
B-13501 C76	AAKA	2
B-13501 C77	AAKA	2
B-13501 C78	AAKA	3
B-13501 C79	AAKA	3
B-13501 C80	AAKA	3
B-13501 C81	AAKA	3
B-13501 C82	AAKA	4
B-13501 C83	AAKA	4
B-13501 C84	AAKA	4
B-13501 C85	AAKA	4
B-13501 C86	AAKA	5
B-13501 C87	AAKA	5
B-13501 C88	AAKA	5
B-13501 C89	AEP	5
B-13946 C21	AEM	37
B-13946 C22	AEM	36
B-13946 C23	AEM	33
B-13946 C24	BG	13
B-13946 C25	BG	2
B-13946 C26	AET	2
B-14004 C02	AEM	34
B-14004 C03	AEM	34
B-14004 C04	AEM	34
B-14004 C05	AEL	3
B-14004 C06	AAKA	5
B-14004 C07	AAKA	6
B-14004 C08	AET	3
B-14004 C09	AET	3
B-14004 C10	AEQ	1

B-14004	C11	BF	4
B-14004	C12	BF	4
B-14004	C13	ABG	1
B-14004	C14	ABG	1
B-14004	C15	ABG	1
B-14004	C17	ABG	2
B-14004	C18	ABG	2
B-14004	C19	BG	2
B-14004	C20	BG	6
B-14004	C21	BG	6
B-14004	C22	BG	11
B-14004	C23	BG	11
B-14004	C24	BG	11
B-14004	C25	BG	11
B-14004	C26	BG	12
B-14004	C27	BG	14
B-14004	C28	BG	14
B-14004	C29	BG	9
B-14004	C30	BG	10
B-14004	C31	BG	10
B-14004	C32	BG	8
B-14004	C33	BG	9
B-14004	C35	BG	9
B-14004	C37	BG	9
B-14004	C38	BG	12
B-14004	C39	BG	12
B-14004	C40	BG	13
B-14004	C41	BG	7
B-14004	C42	BG	7
B-14004	C43	BG	7
B-14004	C44	BG	7
B-14004	C45	BG	8
B-14004	C46	BG	14
B-14004	C48	BG	3
B-14004	C49	BG	14
B-14004	C50	BG	15
B-14004	C52	BG	15
B-14004	C53	BG	3
B-14004	C63	BG	15
B-14004	C64	BG	15
B-14004	C65	BG	16
B-14004	C66	BG	16
B-14004	C67	BG	16
B-14004	C81	BF	3
B-14004	C82	BF	2
B-14004	C83	BF	3
B-14004	C84	BF	5
B-14004	C85	BF	5
B-14004	C86	BF	5
B-14004	C87	BF	5
B-14004	C88	BF	3
B-14004	C89	BF	6
B-14004	C90	BF	8
B-14004	C91	BF	6
B-14004	C92	BF	6
B-14004	C93	BF	6
B-14004	C94	BF	7
B-14004	C95	BF	7
B-14004	C96	BF	7
B-14004	C97	BG	16
B-14004	C98	BG	17
B-14004	C99	BG	10
B-14004	C100	BG	10
B-14004	C101	BG	3
B-14004	C102	BG	3
B-14004	C103	BG	8
B-14004	C104	BG	8
B-14004	C105	BG	17
B-14004	C106	BG	17
B-14004	C107	BG	17
B-14004	C108	BG	18
B-14004	C109	BG	18
B-14004	C110	BG	18

CEC GROUND, PLATFORM, EQUIPMENT

B-13864	CC1	AEM	20
B-13864	CC2	AEM	20
B-13864	CC3	AEM	21
B-13864	CC4	BF	1
B-13864	CC5	BG	12
B-13864	CC6	BG	1
B-13864	CC7	BG	4
B-13864	CC8	AEM	2
B-13864	CC9	BF	2
B-13864	C10	BG	4
B-13864	C11	BG	4
B-13864	C12	BG	4
B-13864	C13	BG	5
B-13864	C14	BG	5

B-13864	C15	BG	5
B-13864	C16	BG	5
B-13864	C17	BG	6
B-13864	C18	BG	6
B-13864	C27	BG	2
B-13864	C29	BG	2
B-13864	C30	AEM	33
B-13864	C31	BM	1
B-13864	C32	BG	13
B-13864	C34	BF	3
B-13864	C35	BF	2

CEC LABORATORY, PLATFORM, EQUIPMENT

B-13501	CC1	AEM	18
B-13501	CC2	AEM	18
B-13501	CC3	AEM	18
B-13501	CC4	AEM	18
B-13501	CC5	AEM	19
B-13501	CC6	AEM	33
B-13501	CC7	AEM	19
B-13501	CC8	AEM	36
B-13501	CC9	AEM	13
B-13501	C10	AEM	36
B-13501	C11	AEM	36
B-13501	C12	AEM	37
B-13501	C13	AEM	1
B-13501	C14	AEM	19
B-13501	C15	AEM	13
B-13501	C16	AEM	1
B-13501	C17	AEM	1
B-13501	C18	AEL	1
B-13501	C19	CJ	1
B-13501	C20	CJ	1
B-13501	C21	AET	1
B-13501	C22	AET	1
B-13501	C23	AET	1
B-13501	C24	AET	1
B-13501	C25	AET	2
B-13501	C26	AET	2
B-13501	C27	AET	2
B-13501	C28	AER	1
B-13501	C29	AER	1
B-13501	C30	AER	1
B-13501	C31	AER	1
B-13501	C32	AER	2
B-13501	C33	AER	2
B-13501	C34	AER	2
B-13501	C35	AER	2
B-13501	C36	AEM	1
B-13501	C37	AEM	2
B-13501	C38	AEL	1
B-13501	C39	AEL	1
B-13501	C40	AEL	1
B-13501	C41	AEL	1
B-13501	C42	AEL	2
B-13501	C43	AEL	2
B-13501	C44	AEL	2
B-13501	C45	AEL	1
B-13501	C46	AEO	1
B-13501	C47	AEO	1
B-13501	C48	AEO	1
B-13501	C49	AEO	1
B-13501	C50	AEP	1
B-13501	C51	AAKA	1
B-13501	C52	AEP	1
B-13501	C53	AEP	1
B-13501	C54	AEP	1
B-13501	C55	AEP	2
B-13501	C56	AEP	2
B-13501	C57	AEP	2
B-13501	C58	AEP	2
B-13501	C59	AEO	2
B-13501	C60	AEO	2
B-13501	C61	AAKA	1
B-13501	C62	AEP	3
B-13501	C63	AEP	3
B-13501	C64	ALP	3
B-13501	C65	AAKA	1
B-13501	C66	AEP	3
B-13501	C67	AEP	4
B-13501	C68	AEP	4
B-13501	C69	AEP	4
B-13501	C70	AFO	2
B-13501	C71	AEP	4
B-13501	C72	AFO	2
B-13501	C73	AAKA	1
B-13501	C74	AAKA	2
B-13501	C75	AAKA	2
B-13501	C76	AAKA	2

0-13501 077	AAKA	2
0-13501 078	AAKA	3
0-13501 079	AAKA	3
0-13501 080	AAKA	3
0-13501 081	AAKA	3
0-13501 082	AAKA	4
0-13501 083	AAKA	4
0-13501 084	AAKA	4
0-13501 085	AAKA	4
0-13501 086	AAKA	5
0-13501 087	AAKA	5
0-13501 088	AAKA	5
0-13501 089	AEK	5
0-13621 001	AEM	19
0-13621 002	AEM	20
0-13621 003	AEM	20
0-13664 019	AEM	2
0-13664 020	AEM	2
0-13664 021	AEM	3
0-13664 022	AEM	3
0-13664 023	AEM	3
0-13664 024	AEM	3
0-13664 025	AEM	21
0-13664 026	AEM	21
0-13664 027	AEM	21
0-13664 028	AEM	22
0-13664 029	AEM	22
0-13664 030	AEM	22
0-13664 031	AEM	22
0-13664 032	AEM	23
0-13664 033	AEM	23
0-13664 034	AEM	13
0-13664 035	AEM	14
0-13664 036	AEM	14
0-13664 037	AEM	14
0-13664 038	AEM	14
0-13664 039	AEM	15
0-13664 040	AEM	15
0-13664 041	AEM	15
0-13664 042	AEM	15
0-13664 043	AEM	16
0-13664 044	AEM	16
0-13664 045	AEM	16
0-13664 046	AEM	16
0-13664 047	AEM	17
0-13664 048	AEM	17
0-13664 049	AEM	4
0-13664 050	AEM	4
0-13664 051	AEM	4
0-13664 052	AEM	4
0-13664 053	AEM	5
0-13664 054	AEM	5
0-13664 055	AEM	5
0-13664 056	AEM	5
0-13664 057	AEM	6
0-13664 058	AEM	6
0-13664 059	AEM	6
0-13664 060	AEM	6
0-13664 061	AEM	7
0-13664 062	AEM	7
0-13664 063	AEM	7
0-13664 064	AEM	23
0-13664 065	AEM	23
0-13664 066	AEM	24
0-13664 067	AEM	24
0-13664 068	AEM	24
0-13664 069	AEM	24
0-13664 070	AEM	25
0-13664 071	AEM	25
0-13664 072	AEM	25
0-13664 073	AEM	25
0-13664 074	AEM	26
0-13664 075	AEM	26
0-13664 076	AEM	26
0-13664 077	AEM	26
0-13664 078	AEM	27
0-13664 079	AEM	7
0-13664 080	AEM	8
0-13664 081	AEM	8
0-13664 082	AEM	8
0-13664 083	AEM	8
0-13664 084	AEM	9
0-13664 085	AEM	9
0-13664 086	AEM	9
0-13664 087	AEM	9
0-13664 088	AEM	10
0-13664 089	AEM	10
0-13664 090	AEM	10
0-13664 091	AEM	10

0-13664 092	AEM	27
0-13664 093	AEM	27
0-13664 094	AEM	27
0-13664 095	AEM	28
0-13664 096	AEM	28
0-13664 097	AEM	28
0-13664 098	AEM	28
0-13664 099	AEM	29
0-13664 100	AEM	29
0-13664 101	AEM	29
0-13664 102	AEM	29
0-13664 103	AEM	30
0-13664 104	AEM	30
0-13664 105	AEM	30
0-13664 106	AEM	30
0-13664 107	AEM	31
0-13664 108	AEM	31
0-13664 109	AEM	31
0-13664 110	AEM	31
0-13664 111	AEM	32
0-13664 112	AEM	32
0-13664 113	AEM	32
0-13664 114	AEM	32
0-13946 001	AEC	1
0-13946 002	AEA	1
0-13946 003	AEQ	1
0-13946 004	AEK	1
0-13946 005	AEM	1
0-13946 006	AEK	2
0-13946 007	AEM	11
0-13946 008	AEK	1
0-13946 009	AEM	33
0-13946 010	BF	2
0-13946 011	BF	1
0-13946 012	BF	1
0-13946 013	BF	1
0-13946 015	BF	4
0-13946 016	BC	13
0-13946 017	BC	1
0-13946 018	BC	1
0-13946 019	BC	1
0-13946 020	AEM	33
0-13946 021	AEM	37
0-13946 022	AEM	36
0-13946 023	AEM	33
0-13946 024	BC	13
0-13946 025	BC	2
0-13946 026	AET	2
0-14004 001	CJ	1
0-14004 002	AEM	34
0-14004 003	AEM	34
0-14004 004	AEM	34
0-14004 005	AEM	3
0-14004 006	AAKA	5
0-14004 007	AAKA	6
0-14004 008	AET	3
0-14004 009	AET	3
0-14004 010	AEQ	1
0-14004 011	BF	4
0-14004 012	BF	4
0-14004 013	AEK	1
0-14004 014	AEK	1
0-14004 015	AEK	1
0-14004 017	AEK	2
0-14004 018	AEK	2
0-14004 019	BC	2
0-14004 020	BC	6
0-14004 021	BC	6
0-14004 022	BC	11
0-14004 023	BC	11
0-14004 024	BC	11
0-14004 025	BC	11
0-14004 026	BC	12
0-14004 027	BC	14
0-14004 028	BC	14
0-14004 029	BC	9
0-14004 030	BC	10
0-14004 031	BC	10
0-14004 032	BC	8
0-14004 033	BC	9
0-14004 035	BC	9
0-14004 037	BC	9
0-14004 038	BC	12
0-14004 039	BC	12
0-14004 040	BC	13
0-14004 041	BC	7
0-14004 042	BC	7
0-14004 043	BC	7
0-14004 044	BC	7

B-14004 C45	BG	8
B-14004 C46	BG	14
B-14004 C48	BG	3
B-14004 C49	BG	14
B-14004 C50	BG	15
B-14004 C52	BG	15
B-14004 C53	BG	3
B-14004 C54	AEM	34
B-14004 C55	ABQ	2
B-14004 C56	ABQ	1
B-14004 C57	AKT	3
B-14004 C58	AKT	3
B-14004 C59	AKL	3
B-14004 C60	AKT	4
B-14004 C61	BF	7
B-14004 C62	BF	4
B-14004 C63	BG	15
B-14004 C64	BG	15
B-14004 C65	BG	16
B-14004 C66	BG	16
B-14004 C67	BG	16
B-14004 C68	AEM	11
B-14004 C69	AEM	11
B-14004 C70	AEM	11
B-14004 C71	AEM	35
B-14004 C72	AEM	17
B-14004 C73	AEM	12
B-14004 C74	AEM	35
B-14004 C75	AEM	12
B-14004 C76	AEM	35
B-14004 C77	AEM	12
B-14004 C78	AEM	12
B-14004 C79	AEM	13
B-14004 C80	AEM	17
B-14004 C81	BF	3
B-14004 C82	BF	2
B-14004 C83	BF	3
B-14004 C84	BF	5
B-14004 C85	BF	5
B-14004 C86	BF	5
B-14004 C87	BF	5
B-14004 C88	BF	3
B-14004 C89	BF	6
B-14004 C90	BF	8
B-14004 C91	BF	6
B-14004 C92	BF	6
B-14004 C93	BF	6
B-14004 C94	BF	7
B-14004 C95	BF	7
B-14004 C96	BF	7
B-14004 C97	BG	16
B-14004 C98	BG	17
B-14004 C99	BG	10
B-14004 C100	BG	10
B-14004 C101	BG	3
B-14004 C102	BG	3
B-14004 C103	BG	8
B-14004 C104	BG	8
B-14004 C105	BG	17
B-14004 C106	BG	17
B-14004 C107	BG	17
B-14004 C108	BG	18
B-14004 C109	BG	18
B-14004 C110	BG	18

CJ	MATERIALS, EQUIPMENT		
B-13501 C19	CJ	1	
B-13501 C20	CJ	1	
B-14004 C11	CJ	1	

DDSC	LINEAR, OPTICAL, POLARIZATION, RADIATION		
B-13864 C01	AEM	20	
B-13864 C02	AEM	20	
B-13864 C03	AEM	21	
B-13864 C04	BF	1	
B-13864 C05	BG	12	
B-13864 C06	BG	1	
B-13864 C07	BG	4	
B-13864 C08	AEM	2	
B-13864 C09	BF	2	
B-13864 C10	BG	4	
B-13864 C11	BG	4	
B-13864 C12	BG	4	
B-13864 C13	BG	5	
B-13864 C14	BG	5	
B-13864 C15	BG	5	
B-13864 C16	BG	5	
B-13864 C17	BG	6	
B-13864 C18	BG	6	

B-13864 C19	AEM	2
B-13864 C20	AEM	2
B-13864 C21	AEM	3
B-13864 C22	AEM	3
B-13864 C23	AEM	3
B-13864 C24	AEM	3
B-13864 C25	AEM	21
B-13864 C26	AEM	21
B-13864 C27	AEM	21
B-13864 C28	AEM	22
B-13864 C29	AEM	22
B-13864 C30	AEM	22
B-13864 C31	AEM	22
B-13864 C32	AEM	23
B-13864 C33	AEM	23
B-13864 C34	AEM	13
B-13864 C35	AEM	14
B-13864 C36	AEM	14
B-13864 C37	AEM	14
B-13864 C38	AEM	14
B-13864 C39	AEM	15
B-13864 C40	AEM	15
B-13864 C41	AEM	15
B-13864 C42	AEM	15
B-13864 C43	AEM	16
B-13864 C44	AEM	16
B-13864 C45	AEM	16
B-13864 C46	AEM	16
B-13864 C47	AEM	17
B-13864 C48	AEM	17
B-13864 C49	AEM	4
B-13864 C50	AEM	4
B-13864 C51	AEM	4
B-13864 C52	AEM	4
B-13864 C53	AEM	5
B-13864 C54	AEM	5
B-13864 C55	AEM	5
B-13864 C56	AEM	5
B-13864 C57	AEM	6
B-13864 C58	AEM	6
B-13864 C59	AEM	6
B-13864 C60	AEM	6
B-13864 C61	AEM	7
B-13864 C62	AEM	7
B-13864 C63	AEM	7
B-13864 C64	AEM	23
B-13864 C65	AEM	23
B-13864 C66	AEM	24
B-13864 C67	AEM	24
B-13864 C68	AEM	24
B-13864 C69	AEM	24
B-13864 C70	AEM	25
B-13864 C71	AEM	25
B-13864 C72	AEM	25
B-13864 C73	AEM	25
B-13864 C74	AEM	26
B-13864 C75	AEM	26
B-13864 C76	AEM	26
B-13864 C77	AEM	26
B-13864 C78	AEM	27
B-13864 C79	AEM	7
B-13864 C80	AEM	8
B-13864 C81	AEM	8
B-13864 C82	AEM	8
B-13864 C83	AEM	8
B-13864 C84	AEM	9
B-13864 C85	AEM	9
B-13864 C86	AEM	9
B-13864 C87	AEM	9
B-13864 C88	AEM	10
B-13864 C89	AEM	10
B-13864 C90	AEM	10
B-13864 C91	AEM	10
B-13864 C92	AEM	27
B-13864 C93	AEM	27
B-13864 C94	AEM	27
B-13864 C95	AEM	28
B-13864 C96	AEM	28
B-13864 C97	AEM	28
B-13864 C98	AEM	28
B-13864 C99	AEM	29
B-13864 C100	AEM	29
B-13864 C101	AEM	29
B-13864 C102	AEM	29
B-13864 C103	AEM	30
B-13864 C104	AEM	30
B-13864 C105	AEM	30
B-13864 C106	AEM	30
B-13864 C107	AEM	31

0-13864	108	AEM	31
0-13864	109	AEM	31
0-13864	110	AEM	31
0-13864	111	AEM	32
0-13864	112	AEM	32
0-13864	113	AEM	32
0-13864	114	AEM	32

DFA DIRECTIONAL, REFLECTANCE, RADIATION

0-13946	001	AEG	1
0-13946	002	AEA	1
0-13946	003	AEG	1
0-13946	004	AEG	1
0-13946	005	AEM	1
0-13946	006	AEL	2
0-13946	007	AEM	11
0-13946	008	AEB	1
0-13946	009	AEM	33
0-13946	010	BF	2
0-13946	011	BF	1
0-13946	012	BF	1
0-13946	013	BF	1
0-13946	015	BF	4
0-13946	016	BG	13
0-13946	017	BG	1
0-13946	018	BG	1
0-13946	019	BG	1
0-13946	020	AEM	33
0-13946	027	BG	2
0-13946	029	BG	2
0-13946	030	AEM	33
0-13946	031	BH	1
0-13946	032	BG	13
0-13946	034	BF	3
0-13946	035	BF	2
0-14004	001	CJ	1
0-14004	054	AEM	34
0-14004	055	AEG	2
0-14004	056	AEG	1
0-14004	057	AET	3
0-14004	058	AET	3
0-14004	059	AEL	3
0-14004	060	AET	4
0-14004	061	BF	7
0-14004	062	BF	4
0-14004	063	BG	15
0-14004	064	BG	15
0-14004	065	BG	16
0-14004	066	BG	16
0-14004	067	BG	16
0-14004	068	BF	3
0-14004	069	BF	2
0-14004	070	BF	3
0-14004	081	BF	5
0-14004	082	BF	5
0-14004	083	BF	5
0-14004	084	BF	5
0-14004	085	BF	5
0-14004	086	BF	5
0-14004	087	BF	5
0-14004	088	BF	3
0-14004	089	BF	6
0-14004	090	BF	8
0-14004	091	BF	6
0-14004	092	BF	6
0-14004	093	BF	6
0-14004	094	BF	7
0-14004	095	BF	7
0-14004	096	BF	7
0-14004	097	BG	16
0-14004	098	BG	17
0-14004	099	BG	10
0-14004	100	BG	10
0-14004	101	BG	3
0-14004	102	BG	3
0-14004	103	BG	8
0-14004	104	BG	8
0-14004	105	BG	17
0-14004	106	BG	17
0-14004	107	BG	17
0-14004	108	BG	18
0-14004	109	BG	18
0-14004	110	BG	18

CFAA SPECULAR INCLUDED, DIFFUSE, REFLECTANCE, RADIATION

0-13501	001	AEM	18
0-13501	002	AEM	18
0-13501	003	AEM	18
0-13501	004	AEM	18
0-13501	005	AEM	19
0-13501	006	AEM	33

0-13501	007	AEM	19
0-13501	008	AEM	36
0-13501	009	AEM	13
0-13501	010	AEM	36
0-13501	011	AEM	36
0-13501	012	AEM	37
0-13501	013	AEM	1
0-13501	014	AEM	19
0-13501	015	AEM	13
0-13501	016	AEM	1
0-13501	017	AEM	1
0-13501	018	AEL	1
0-13501	019	CJ	1
0-13501	020	CJ	1
0-13501	021	AET	1
0-13501	022	AET	1
0-13501	023	AET	1
0-13501	024	AET	1
0-13501	025	AET	2
0-13501	026	AET	2
0-13501	027	AET	2
0-13501	028	AER	1
0-13501	029	AER	1
0-13501	030	AER	1
0-13501	031	AER	1
0-13501	032	AER	2
0-13501	033	AER	2
0-13501	034	AER	2
0-13501	035	AER	2
0-13501	036	AEM	1
0-13501	037	AEM	2
0-13501	038	AEL	1
0-13501	039	AEL	1
0-13501	040	AEL	1
0-13501	041	AEL	1
0-13501	042	AEL	2
0-13501	043	AEL	2
0-13501	044	AEL	2
0-13501	045	AEA	1
0-13501	046	AEO	1
0-13501	047	AEO	1
0-13501	048	AEO	1
0-13501	049	AEO	1
0-13501	050	AEP	1
0-13501	051	AAKA	1
0-13501	052	AEP	1
0-13501	053	AEP	1
0-13501	054	AEP	1
0-13501	055	AEP	2
0-13501	056	AEP	2
0-13501	057	AEP	2
0-13501	058	AEP	2
0-13501	059	AEO	2
0-13501	060	AEO	2
0-13501	061	AAKA	1
0-13501	062	AEP	3
0-13501	063	AEP	3
0-13501	064	AEP	3
0-13501	065	AAKA	1
0-13501	066	AEP	3
0-13501	067	AEP	4
0-13501	068	AEP	4
0-13501	069	AEP	4
0-13501	070	AEO	2
0-13501	071	AEP	4
0-13501	072	AEO	2
0-13501	073	AAKA	1
0-13501	074	AAKA	2
0-13501	075	AAKA	2
0-13501	076	AAKA	2
0-13501	077	AAKA	2
0-13501	078	AAKA	3
0-13501	079	AAKA	3
0-13501	080	AAKA	3
0-13501	081	AAKA	3
0-13501	082	AAKA	4
0-13501	083	AAKA	4
0-13501	084	AAKA	4
0-13501	085	AAKA	4
0-13501	086	AAKA	5
0-13501	087	AAKA	5
0-13501	088	AAKA	5
0-13501	089	AEP	5
0-13946	021	AEM	36
0-13946	022	AEM	36
0-13946	023	AEM	33
0-13946	024	BG	13
0-13946	025	BG	2
0-13946	026	AET	2
0-14004	002	AEM	34

B-14004	C03	ARM	34
B-14004	C04	ARM	34
B-14004	C05	ARM	3
B-14004	C06	AAKA	5
B-14004	C07	AAKA	6
B-14004	C08	AET	3
B-14004	C09	AET	3
B-14004	C10	AEQ	1
B-14004	C11	BF	4
B-14004	C12	BF	4
B-14004	C13	ARG	1
B-14004	C14	ARG	1
B-14004	C15	ARG	1
B-14004	C17	ARG	2
B-14004	C18	ARG	2
B-14004	C19	BC	2
B-14004	C20	BC	6
B-14004	C21	BC	6
B-14004	C22	BC	11
B-14004	C23	BC	11
B-14004	C24	BC	11
B-14004	C25	BC	11
B-14004	C26	BC	12
B-14004	C27	BC	14
B-14004	C28	BC	14
B-14004	C29	BC	9
B-14004	C30	BC	10
B-14004	C31	BC	10
B-14004	C32	BC	8
B-14004	C33	BC	9
B-14004	C35	BC	9
B-14004	C37	BC	9
B-14004	C38	BC	12
B-14004	C39	BC	12
B-14004	C40	BC	13
B-14004	C41	BC	7
B-14004	C42	BC	7
B-14004	C43	BC	7
B-14004	C44	BC	7
B-14004	C45	BC	8
B-14004	C46	BC	14
B-14004	C48	BC	3
B-14004	C49	BC	14
B-14004	C50	BC	15
B-14004	C52	BC	15
B-14004	C53	BC	3

OFAB SPECULAR NOT INCLUDED, DIFFUSE,
REFLECTANCE, RADIATION

B-14004	C68	ARM	11
B-14004	C69	ARM	11
B-14004	C70	ARM	11
B-14004	C71	ARM	35
B-14004	C72	ARM	17
B-14004	C73	ARM	12
B-14004	C74	ARM	35
B-14004	C75	ARM	12
B-14004	C76	ARM	35
B-14004	C77	ARM	12
B-14004	C78	ARM	12
B-14004	C79	ARM	13
B-14004	C80	ARM	17

DFC STANDARD, REFLECTANCE, RADIATION

B-13946	C01	AEC	1
B-13946	C02	ARA	1
B-13946	C03	AEQ	1
B-13946	C04	AEC	1
B-13946	C05	AEM	1
B-13946	C06	AEL	2
B-13946	C07	ATM	11
B-13946	C08	AEM	1
B-13946	C09	AEM	33
B-13946	C10	BF	2
B-13946	C11	BF	1
B-13946	C12	BF	1
B-13946	C15	BF	4
B-13946	C16	BC	13
B-13946	C17	BC	1
B-13946	C18	BC	1
B-13946	C19	BC	1
B-13946	C20	AEM	33

DFCD MAGNESIUM CARBONATE, STANDARD, REFLECTANCE,
RADIATION

B-13946	C21	ARM	37
B-13946	C22	ARM	36
B-13946	C23	ARM	33
B-13946	C24	BC	13

B-13946	C25	BC	2
B-13946	C26	AET	2
B-14004	C02	ARM	34
B-14004	C03	ARM	34
B-14004	C04	ARM	34
B-14004	C05	ARM	3
B-14004	C06	AAKA	5
B-14004	C07	AAKA	6
B-14004	C08	AET	3
B-14004	C09	AET	3
B-14004	C10	AEQ	1
B-14004	C11	BF	4
B-14004	C12	BF	4
B-14004	C13	ARG	1
B-14004	C14	ARG	1
B-14004	C15	ARG	1
B-14004	C17	ARG	2
B-14004	C18	ARG	2
B-14004	C19	BC	2
B-14004	C20	BC	6
B-14004	C21	BC	6
B-14004	C22	BC	11
B-14004	C23	BC	11
B-14004	C24	BC	11
B-14004	C25	BC	11
B-14004	C26	BC	12
B-14004	C27	BC	14
B-14004	C28	BC	14
B-14004	C29	BC	9
B-14004	C30	BC	10
B-14004	C31	BC	10
B-14004	C32	BC	8
B-14004	C33	BC	9
B-14004	C35	BC	9
B-14004	C37	BC	9
B-14004	C38	BC	12
B-14004	C39	BC	12
B-14004	C40	BC	13
B-14004	C41	BC	7
B-14004	C42	BC	7
B-14004	C43	BC	7
B-14004	C44	BC	7
B-14004	C45	BC	8
B-14004	C46	BC	14
B-14004	C48	BC	3
B-14004	C49	BC	14
B-14004	C50	BC	15
B-14004	C52	BC	15
B-14004	C53	BC	3
B-14004	C54	ARM	35
B-14004	C55	AEC	2
B-14004	C56	AEQ	1
B-14004	C57	AET	3
B-14004	C58	AET	3
B-14004	C59	AEL	3
B-14004	C60	AET	4
B-14004	C61	BF	7
B-14004	C62	BF	4
B-14004	C63	BC	15
B-14004	C64	BC	15
B-14004	C65	BC	16
B-14004	C66	BC	16
B-14004	C67	BC	16
B-14004	C68	ARM	11
B-14004	C69	ARM	11
B-14004	C70	ARM	11
B-14004	C71	ARM	35
B-14004	C72	ARM	17
B-14004	C73	ARM	12
B-14004	C74	ARM	35
B-14004	C75	ARM	12
B-14004	C76	ARM	35
B-14004	C77	ARM	12
B-14004	C78	ARM	12
B-14004	C79	ARM	13
B-14004	C80	ARM	17
B-14004	C81	BF	3
B-14004	C82	BF	2
B-14004	C83	BF	3
B-14004	C84	BF	5
B-14004	C85	BF	5
B-14004	C86	BF	5
B-14004	C87	BF	5
B-14004	C88	BF	3
B-14004	C89	BF	6
B-14004	C90	BF	8
B-14004	C91	BF	6
B-14004	C92	BF	6
B-14004	C93	BF	6

B-14004 C94	BF	7
B-14004 C95	BF	7
B-14004 C96	BF	7
B-14004 C97	BG	16
B-14004 C98	BG	17
B-14004 C99	BG	10
B-14004 100	BG	10
B-14004 101	BG	3
B-14004 102	BG	3
B-14004 103	BG	8
B-14004 104	BG	8
B-14004 105	BG	17
B-14004 106	BG	17
B-14004 107	BG	17
B-14004 108	BG	18
B-14004 109	BG	18
B-14004 110	BG	18

DFCE MAGNESIUM OXIDE, STANDARD, REFLECTANCE, RADIATION

R-13501 C19	CJ	1
R-13546 C27	BG	2
R-13546 C29	BG	2
R-13546 C30	AEM	33
R-13546 C31	BH	1
R-13546 C32	BG	13
R-13546 C34	BF	3
R-13546 C35	BF	2
B-14004 C01	CJ	1

DFC BI-DIRECTIONAL REFLECTANCE, RADIATION

B-13864 C19	AEM	2
B-13864 C20	AEM	2
B-13864 C21	AEM	3
B-13864 C22	AEM	3
B-13864 C23	AEM	3
B-13864 C24	AEM	3
B-13864 C25	AEM	21
B-13864 C26	AEM	21
B-13864 C27	AEM	21
B-13864 C28	AEM	22
B-13864 C29	AEM	22
B-13864 C30	AEM	22
B-13864 C31	AEM	22
B-13864 C32	AEM	23
B-13864 C33	AEM	23
B-13864 C34	AEM	13
B-13864 C35	AEM	14
B-13864 C36	AEM	14
B-13864 C37	AEM	14
B-13864 C38	AEM	14
B-13864 C39	AEM	15
B-13864 C40	AEM	15
B-13864 C41	AEM	15
B-13864 C42	AEM	15
B-13864 C43	AEM	16
B-13864 C44	AEM	16
B-13864 C45	AEM	16
B-13864 C46	AEM	16
B-13864 C47	AEM	17
B-13864 C48	AEM	17
B-13864 C49	AEM	4
B-13864 C50	AEM	4
B-13864 C51	AEM	4
B-13864 C52	AEM	4
B-13864 C53	AEM	5
B-13864 C54	AEM	5
B-13864 C55	AEM	5
B-13864 C56	AEM	5
B-13864 C57	AEM	6
B-13864 C58	AEM	6
B-13864 C59	AEM	6
B-13864 C60	AEM	6
B-13864 C61	AEM	7
B-13864 C62	AEM	7
B-13864 C63	AEM	7
B-13864 C64	AEM	23
B-13864 C65	AEM	23
B-13864 C66	AEM	24
B-13864 C67	AEM	24
B-13864 C68	AEM	24
B-13864 C69	AEM	24
B-13864 C70	AEM	25
B-13864 C71	AEM	25
B-13864 C72	AEM	25
B-13864 C73	AEM	25
B-13864 C74	AEM	26
B-13864 C75	AEM	26
B-13864 C76	AEM	26

B-13864 C77	AEM	26
B-13864 C78	AEM	27
B-13864 C79	AEM	7
B-13864 C80	AEM	8
B-13864 C81	AEM	8
B-13864 C82	AEM	8
B-13864 C83	AEM	8
B-13864 C84	AEM	9
B-13864 C85	AEM	9
B-13864 C86	AEM	9
B-13864 C87	AEM	9
B-13864 C88	AEM	10
B-13864 C89	AEM	10
B-13864 C90	AEM	10
B-13864 C91	AEM	10
B-13864 C92	AEM	27
B-13864 C93	AEM	27
B-13864 C94	AEM	27
B-13864 C95	AEM	28
B-13864 C96	AEM	28
B-13864 C97	AEM	28
B-13864 C98	AEM	28
B-13864 C99	AEM	29
B-13864 100	AEM	29
B-13864 101	AEM	29
B-13864 102	AEM	29
B-13864 103	AEM	30
B-13864 104	AEM	30
B-13864 105	AEM	30
B-13864 106	AEM	30
B-13864 107	AEM	31
B-13864 108	AEM	31
B-13864 109	AEM	31
B-13864 110	AEM	31
B-13864 111	AEM	32
B-13864 112	AEM	32
B-13864 113	AEM	32
B-13864 114	AEM	32

DJC EMITTANCE, EMISSION, RADIATION

B-13621 C01	AEM	19
B-13621 C02	AEM	20
B-13621 C03	AEM	20

DK ARTIFICIAL SOURCES, RADIATION

B-13621 C01	AEM	19
B-13621 C02	AEM	20
B-13621 C03	AEM	20
B-13864 C19	AEM	2
B-13864 C20	AEM	2
B-13864 C21	AEM	3
B-13864 C22	AEM	3
B-13864 C23	AEM	3
B-13864 C24	AEM	3
B-13864 C25	AEM	21
B-13864 C26	AEM	21
B-13864 C27	AEM	21
B-13864 C28	AEM	22
B-13864 C29	AEM	22
B-13864 C30	AEM	22
B-13864 C31	AEM	22
B-13864 C32	AEM	23
B-13864 C33	AEM	23
B-13864 C34	AEM	13
B-13864 C35	AEM	14
B-13864 C36	AEM	14
B-13864 C37	AEM	14
B-13864 C38	AEM	14
B-13864 C39	AEM	15
B-13864 C40	AEM	15
B-13864 C41	AEM	15
B-13864 C42	AEM	15
B-13864 C43	AEM	16
B-13864 C44	AEM	16
B-13864 C45	AEM	16
B-13864 C46	AEM	16
B-13864 C47	AEM	17
B-13864 C48	AEM	17
B-13864 C49	AEM	4
B-13864 C50	AEM	4
B-13864 C51	AEM	4
B-13864 C52	AEM	4
B-13864 C53	AEM	5
B-13864 C54	AEM	5
B-13864 C55	AEM	5
B-13864 C56	AEM	5
B-13864 C57	AEM	6
B-13864 C58	AEM	6
B-13864 C59	AEM	6
B-13864 C60	AEM	6
B-13864 C61	AEM	7
B-13864 C62	AEM	7
B-13864 C63	AEM	7
B-13864 C64	AEM	23
B-13864 C65	AEM	23
B-13864 C66	AEM	24
B-13864 C67	AEM	24
B-13864 C68	AEM	24
B-13864 C69	AEM	24
B-13864 C70	AEM	25
B-13864 C71	AEM	25
B-13864 C72	AEM	25
B-13864 C73	AEM	25
B-13864 C74	AEM	26
B-13864 C75	AEM	26
B-13864 C76	AEM	26
B-13864 C77	AEM	26
B-13864 C78	AEM	27
B-13864 C79	AEM	7
B-13864 C80	AEM	8
B-13864 C81	AEM	8
B-13864 C82	AEM	8
B-13864 C83	AEM	8
B-13864 C84	AEM	9
B-13864 C85	AEM	9
B-13864 C86	AEM	9
B-13864 C87	AEM	9
B-13864 C88	AEM	10
B-13864 C89	AEM	10
B-13864 C90	AEM	10
B-13864 C91	AEM	10
B-13864 C92	AEM	27
B-13864 C93	AEM	27
B-13864 C94	AEM	27
B-13864 C95	AEM	28
B-13864 C96	AEM	28
B-13864 C97	AEM	28
B-13864 C98	AEM	28
B-13864 C99	AEM	29
B-13864 100	AEM	29
B-13864 101	AEM	29
B-13864 102	AEM	29
B-13864 103	AEM	30
B-13864 104	AEM	30
B-13864 105	AEM	30
B-13864 106	AEM	30
B-13864 107	AEM	31
B-13864 108	AEM	31
B-13864 109	AEM	31
B-13864 110	AEM	31
B-13864 111	AEM	32
B-13864 112	AEM	32
B-13864 113	AEM	32
B-13864 114	AEM	32

B-13864	C60	AEM	6
B-13864	C61	AEM	7
B-13864	C62	AEM	7
B-13864	C63	AEM	7
B-13864	C64	AEM	23
B-13864	C65	AEM	23
B-13864	C66	AEM	24
B-13864	C67	AEM	24
B-13864	C68	AEM	24
B-13864	C69	AEM	24
B-13864	C70	AEM	25
B-13864	C71	AEM	25
B-13864	C72	AEM	25
B-13864	C73	AEM	25
B-13864	C74	AEM	26
B-13864	C75	AEM	26
B-13864	C76	AEM	26
B-13864	C77	AEM	26
B-13864	C78	AEM	27
B-13864	C79	AEM	7
B-13864	C80	AEM	8
B-13864	C81	AEM	8
B-13864	C82	AEM	8
B-13864	C83	AEM	8
B-13864	C84	AEM	9
B-13864	C85	AEM	9
B-13864	C86	AEM	9
B-13864	C87	AEM	9
B-13864	C88	AEM	10
B-13864	C89	AEM	10
B-13864	C90	AEM	10
B-13864	C91	AEM	10
B-13864	C92	AEM	27
B-13864	C93	AEM	27
B-13864	C94	AEM	27
B-13864	C95	AEM	28
B-13864	C96	AEM	28
B-13864	C97	AEM	28
B-13864	C98	AEM	28
B-13864	C99	AEM	29
B-13864	IC0	AEM	29
B-13864	IC1	AEM	29
B-13864	IC2	AEM	29
B-13864	IC3	AEM	30
B-13864	IC4	AEM	30
B-13864	IC5	AEM	30
B-13864	IC6	AEM	30
B-13864	IC7	AEM	31
B-13864	IC8	AEM	31
B-13864	IC9	AEM	31
B-13864	IC10	AEM	31
B-13864	IC11	AEM	32
B-13864	IC12	AEM	32
B-13864	IC13	AEM	32
B-13864	IC14	AEM	32
B-13946	C04	AEG	1
B-13946	C05	AEM	1
B-13946	C06	AEL	2
B-13946	C07	AEM	11
B-13946	C08	AEB	1
B-13946	C09	AEM	33
B-13946	C10	BF	2
B-13946	C11	BF	1
B-13946	C12	BF	1
B-13946	C13	BF	1
B-13946	C15	BF	4
B-13946	C16	BG	13
B-13946	C17	BG	1
B-13946	C18	BG	1
B-13946	C19	BG	1
B-13946	C20	AEM	33
B-13946	C21	AEM	37
B-13946	C22	AEM	36
B-13946	C23	AEM	33
B-13946	C24	BG	13
B-13946	C25	BG	2
B-13946	C26	AET	2
B-13946	C27	BG	2
B-13946	C29	BG	2
B-13946	C30	AEM	33
B-13946	C31	BH	1
B-13946	C32	BG	13
B-13946	C34	BF	3
B-13946	C35	BF	2
B-14004	CC1	CJ	1
B-14004	CC2	AEM	34
B-14004	CC3	AEM	34
B-14004	CC4	AEM	34
B-14004	CC5	AEL	3

B-14004	CC6	AARA	3
B-14004	CC7	AARA	6
B-14004	CC8	AET	3
B-14004	CC9	AET	3
B-14004	CC10	ANQ	1
B-14004	CC11	BF	4
B-14004	CC12	BF	4
B-14004	CC13	AEG	1
B-14004	CC14	AEG	1
B-14004	CC15	AEG	1
B-14004	CC17	AEG	2
B-14004	CC18	AEG	2
B-14004	CC19	BG	2
B-14004	CC20	BG	6
B-14004	CC21	BG	6
B-14004	CC22	BG	11
B-14004	CC23	BG	11
B-14004	CC24	BG	11
B-14004	CC25	BG	11
B-14004	CC26	BG	12
B-14004	CC27	BG	14
B-14004	CC28	BG	14
B-14004	CC29	BG	9
B-14004	CC30	BG	10
B-14004	CC31	BG	10
B-14004	CC32	BG	8
B-14004	CC33	BG	9
B-14004	CC35	BG	9
B-14004	CC37	BG	9
B-14004	CC38	BG	12
B-14004	CC39	BG	12
B-14004	CC40	BG	13
B-14004	CC41	BG	7
B-14004	CC42	BG	7
B-14004	CC43	BG	7
B-14004	CC44	BG	7
B-14004	CC45	EG	8
B-14004	CC46	BG	14
B-14004	CC48	BG	3
B-14004	CC49	BG	14
B-14004	CC50	BG	15
B-14004	CC52	BG	15
B-14004	CC53	BG	3
B-14004	CC54	AEM	34
B-14004	CC55	AEG	2
B-14004	CC56	AEG	1
B-14004	CC57	AET	3
B-14004	CC58	AET	3
B-14004	CC59	ARL	3
B-14004	CC60	AET	4
B-14004	CC61	BF	7
B-14004	CC62	BF	4
B-14004	CC63	BG	15
B-14004	CC64	BG	15
B-14004	CC65	BG	16
B-14004	CC66	BG	16
B-14004	CC67	BG	16
B-14004	CC68	AEM	11
B-14004	CC69	AEM	11
B-14004	CC70	AEM	11
B-14004	CC71	AEM	35
B-14004	CC72	AEM	17
B-14004	CC73	AEM	12
B-14004	CC74	AEM	35
B-14004	CC75	AEM	12
B-14004	CC76	AEM	35
B-14004	CC77	AEM	12
B-14004	CC78	AEM	12
B-14004	CC79	AEM	13
B-14004	CC80	AEM	17
B-14004	CC81	BF	3
B-14004	CC82	BF	2
B-14004	CC83	BF	3
B-14004	CC84	BF	5
B-14004	CC85	BF	5
B-14004	CC86	BF	5
B-14004	CC87	BF	5
B-14004	CC88	BF	3
B-14004	CC89	BF	6
B-14004	CC90	BF	8
B-14004	CC91	BF	6
B-14004	CC92	BF	6
B-14004	CC93	BF	6
B-14004	CC94	BF	7
B-14004	CC95	BF	7
B-14004	CC96	BF	7
B-14004	CC97	BG	16
B-14004	CC98	BG	17
B-14004	CC99	BG	10

B-14004	100	BG	10
B-14004	101	BG	3
B-14004	102	BG	3
B-14004	103	BG	8
B-14004	104	BG	8
B-14004	105	BG	17
B-14004	106	BG	17
B-14004	107	BG	17
B-14004	108	BG	18
B-14004	109	BG	18
B-14004	110	BG	18

OKC GLOBAL, ARTIFICIAL SOURCES, RADIATION

B-13501	001	AEM	18
B-13501	002	AEM	18
B-13501	003	AEM	18
B-13501	004	AEM	18
B-13501	005	AEM	19
B-13501	006	AEM	35
B-13501	007	AEM	19
B-13501	008	AEM	36
B-13501	009	AEM	13
B-13501	010	AEM	36
B-13501	011	AEM	36
B-13501	012	AEM	37
B-13501	013	AEM	1
B-13501	014	AEM	19
B-13501	015	AEM	13
B-13501	016	AEM	1
B-13501	017	AEM	1
B-13501	018	AEL	1
B-13501	019	CJ	1
B-13501	020	CJ	1
B-13501	021	AET	1
B-13501	022	AET	1
B-13501	023	AET	1
B-13501	024	AET	1
B-13501	025	AET	2
B-13501	026	AET	2
B-13501	027	AET	2
B-13501	028	AER	1
B-13501	029	AER	1
B-13501	030	AER	1
B-13501	031	AER	1
B-13501	032	AER	2
B-13501	033	AER	2
B-13501	034	AER	2
B-13501	035	AER	2
B-13501	036	AEM	1
B-13501	037	AEM	2
B-13501	038	AEL	1
B-13501	039	AEL	1
B-13501	040	AEL	1
B-13501	041	AEL	1
B-13501	042	AEL	2
B-13501	043	AEL	2
B-13501	044	AEL	2
B-13501	045	AEL	1
B-13501	046	AEO	1
B-13501	047	AEO	1
B-13501	048	AEO	1
B-13501	049	AEO	1
B-13501	050	AEP	1
B-13501	051	AAKA	1
B-13501	052	AEP	1
B-13501	053	AEP	1
B-13501	054	AEP	1
B-13501	055	AEP	2
B-13501	056	AEP	2
B-13501	057	AEP	2
B-13501	058	AEP	2
B-13501	059	AEO	2
B-13501	060	AEO	2
B-13501	061	AAKA	1
B-13501	062	AEP	3
B-13501	063	AEP	3
B-13501	064	AEP	3
B-13501	065	AAKA	1
B-13501	066	AEP	3
B-13501	067	AEP	4
B-13501	068	AEP	4
B-13501	069	AEP	4
B-13501	070	AEO	2
B-13501	071	AEP	4
B-13501	072	AEO	2
B-13501	073	AAKA	1
B-13501	074	AAKA	2
B-13501	075	AAKA	2
B-13501	076	AAKA	2

B-13501	077	AAKA	2
B-13501	078	AAKA	3
B-13501	079	AAKA	3
B-13501	080	AAKA	3
B-13501	081	AAKA	3
B-13501	082	AAKA	4
B-13501	083	AAKA	4
B-13501	084	AAKA	4
B-13501	085	AAKA	4
B-13501	086	AAKA	5
B-13501	087	AAKA	5
B-13501	088	AAKA	5
B-13501	089	AEP	5

DLF SOLAR, NATURAL SOURCES, RADIATION

B-13864	001	AEM	20
B-13864	002	AEM	20
B-13864	003	AEM	21
B-13864	004	BF	1
B-13864	005	BG	12
B-13864	006	BG	1
B-13864	007	BG	4
B-13864	008	AEM	2
B-13864	009	BF	2
B-13864	010	BG	4
B-13864	011	BG	4
B-13864	012	BG	4
B-13864	013	BG	5
B-13864	014	BG	5
B-13864	015	BG	5
B-13864	016	BG	5
B-13864	017	BG	6
B-13864	018	BG	6

ECAC .2-.3 MICRONS, UV, OPTICAL, SPECTRA

B-13946	021	AEM	37
B-13946	022	AEM	36
B-13946	023	AEM	33
B-13946	024	BG	13
B-13946	025	BG	2
B-13946	026	AET	2
B-13946	034	BF	3
B-13946	035	BF	2
B-14004	001	CJ	1
B-14004	002	AEM	34
B-14004	004	AEM	34
B-14004	005	AEL	3
B-14004	006	AAKA	5
B-14004	007	AAKA	6
B-14004	008	AET	3
B-14004	009	AET	3
B-14004	010	AEO	1
B-14004	011	BF	4
B-14004	012	BF	4
B-14004	013	AEG	1
B-14004	014	AEG	1
B-14004	015	AEG	1
B-14004	017	AEG	2
B-14004	018	AEG	2
B-14004	019	BG	2
B-14004	020	BG	6
B-14004	021	BG	6
B-14004	022	BG	11
B-14004	023	BG	11
B-14004	024	BG	11
B-14004	025	BG	11
B-14004	026	BG	12
B-14004	027	BG	14
B-14004	028	BG	14
B-14004	029	BG	9
B-14004	030	BG	10
B-14004	031	BG	10
B-14004	032	BG	8
B-14004	033	BG	9
B-14004	035	BG	9
B-14004	037	BG	9
B-14004	038	BG	12
B-14004	039	BG	12
B-14004	040	BG	13
B-14004	041	BG	7
B-14004	042	BG	7
B-14004	043	BG	7
B-14004	044	BG	7
B-14004	045	BG	8
B-14004	046	BG	14
B-14004	048	BG	3
B-14004	049	BG	14
B-14004	050	BG	15
B-14004	052	BG	15
B-14004	053	BG	3

B-14004 063	BC	13
B-14004 064	BC	15
B-14004 065	BC	16
B-14004 066	BC	16
B-14004 067	BC	16
B-14004 068	AEM	11
B-14004 069	AEM	11
B-14004 070	AEM	11
B-14004 071	AEM	35
B-14004 072	AEM	17
B-14004 073	AEM	12
B-14004 074	AEM	35
B-14004 075	AEM	12
B-14004 076	AEM	35
B-14004 077	AEM	12
B-14004 078	AEM	12
B-14004 079	AEM	13
B-14004 080	AEM	17
B-14004 081	BF	3
B-14004 082	BF	2
B-14004 083	BF	3
B-14004 084	BF	5
B-14004 085	BF	5
B-14004 086	BF	5
B-14004 087	BF	5
B-14004 088	BF	3
B-14004 089	BF	6
B-14004 090	BF	8
B-14004 091	BF	6
B-14004 092	BF	6
B-14004 093	BF	6
B-14004 094	BF	7
B-14004 095	BF	7
B-14004 096	BF	7
B-14004 097	BC	16
B-14004 098	BC	17
B-14004 099	BC	10
B-14004 100	BC	10
B-14004 101	BC	3
B-14004 102	BC	3
B-14004 103	BC	8
B-14004 104	BC	8
B-14004 105	BC	17
B-14004 106	BC	17
B-14004 107	BC	17
B-14004 108	BC	18
B-14004 109	BC	18
B-14004 110	BC	18

ECAD .3-.4 MICRONS, UV, OPTICAL, SPECTRA

B-13946 C01	AEC	1
B-13946 C02	AEA	1
B-13946 C03	AEQ	1
B-13946 C04	AEC	1
B-13946 C05	AEM	1
B-13946 C06	REL	2
B-13946 C07	AEM	11
B-13946 C08	AEB	1
B-13946 C09	AEM	33
B-13946 C10	BF	2
B-13946 C11	BF	1
B-13946 C12	BF	1
B-13946 C13	BF	1
B-13946 C15	BF	4
B-13946 C16	BC	13
B-13946 C17	BC	1
B-13946 C18	BC	1
B-13946 C19	BC	1
B-13946 C20	AEM	33
B-13946 C21	AEM	37
B-13946 C22	AEM	36
B-13946 C23	AEM	33
B-13946 C24	BC	13
B-13946 C25	BC	2
B-13946 C26	AET	2
B-13946 C27	BC	2
B-13946 C29	BC	2
B-13946 C30	AEM	33
B-13946 C31	BH	1
B-13946 C32	BC	13
B-13946 C34	BF	3
B-13946 C35	BF	2
B-14004 C01	CJ	1
B-14004 C02	AEM	34
B-14004 C03	AEM	34
B-14004 C04	AEM	34
B-14004 C05	REL	3
B-14004 C06	AAKA	5
B-14004 C07	AAKA	6

B-14004 C08	AET	3
B-14004 C09	AET	3
B-14004 C10	AEQ	1
B-14004 C11	BF	4
B-14004 C12	BF	4
B-14004 C13	AEQ	1
B-14004 C14	AEQ	1
B-14004 C15	AEQ	1
B-14004 C17	AEQ	2
B-14004 C18	AEQ	2
B-14004 C19	BC	2
B-14004 C20	BC	6
B-14004 C21	BC	6
B-14004 C22	BC	11
B-14004 C23	BC	11
B-14004 C24	BC	11
B-14004 C25	BC	11
B-14004 C26	BC	12
B-14004 C27	BC	14
B-14004 C28	BC	14
B-14004 C29	BC	9
B-14004 C30	BC	10
B-14004 C31	BC	10
B-14004 C32	BC	8
B-14004 C33	BC	9
B-14004 C35	BC	9
B-14004 C37	BC	9
B-14004 C38	BC	12
B-14004 C39	BC	12
B-14004 C40	BC	13
B-14004 C41	BC	7
B-14004 C42	BC	7
B-14004 C43	BC	7
B-14004 C44	BC	7
B-14004 C45	BC	8
B-14004 C46	BC	14
B-14004 C48	BC	3
B-14004 C49	BC	14
B-14004 C50	BC	15
B-14004 C52	BC	15
B-14004 C53	BC	3
B-14004 C54	AEM	34
B-14004 C55	AEQ	2
B-14004 C56	AEQ	1
B-14004 C57	AET	3
B-14004 C58	AET	3
B-14004 C59	REL	3
B-14004 C60	AET	3
B-14004 C61	BF	7
B-14004 C62	BF	4
B-14004 C63	BC	15
B-14004 C64	BC	15
B-14004 C65	BC	16
B-14004 C66	BC	16
B-14004 C67	BC	16
B-14004 C68	AEM	11
B-14004 C69	AEM	11
B-14004 C70	AEM	11
B-14004 C71	AEM	35
B-14004 C72	AEM	17
B-14004 C73	AEM	12
B-14004 C74	AEM	35
B-14004 C75	AEM	12
B-14004 C76	AEM	35
B-14004 C77	AEM	12
B-14004 C78	AEM	12
B-14004 C79	AEM	13
B-14004 C80	AEM	17
B-14004 C81	BF	3
B-14004 C82	BF	2
B-14004 C83	BF	3
B-14004 C84	BF	5
B-14004 C85	BF	5
B-14004 C86	BF	5
B-14004 C87	BF	5
B-14004 C88	BF	3
B-14004 C89	BF	6
B-14004 C90	BF	8
B-14004 C91	BF	6
B-14004 C92	BF	6
B-14004 C93	BF	6
B-14004 C94	BF	7
B-14004 C95	BF	7
B-14004 C96	BF	7
B-14004 C97	BC	16
B-14004 C98	BC	17
B-14004 C99	BC	10
B-14004 C00	BC	10
B-14004 C01	BC	3

B-14004	102	BG	3
B-14004	103	BG	8
B-14004	104	BG	8
B-14004	105	BG	17
B-14004	106	BG	17
B-14004	107	BG	17
B-14004	108	BG	18
B-14004	109	BG	18
B-14004	110	BG	18
ECB VISIBLE (.4-.7 MICRONS), OPTICAL, SPECTRA			
B-13864	C01	AEM	20
B-13864	C02	AEM	20
B-13864	C03	AEM	21
B-13864	C04	BF	1
B-13864	C05	BG	12
B-13864	C06	BG	1
B-13864	C07	BG	4
B-13864	C08	AEM	2
B-13864	C09	BF	2
B-13864	C10	BG	4
B-13864	C11	BG	4
B-13864	C12	BG	4
B-13864	C13	BG	5
B-13864	C14	BG	5
B-13864	C15	BG	5
B-13864	C16	BG	5
B-13864	C17	BG	6
B-13864	C18	BG	6
B-13864	C19	AEM	2
B-13864	C20	AEM	2
B-13864	C21	AEM	3
B-13864	C22	AEM	3
B-13864	C23	AEM	3
B-13864	C24	AEM	3
B-13864	C25	AEM	21
B-13864	C26	AEM	21
B-13864	C27	AEM	21
B-13864	C28	AEM	22
B-13864	C29	AEM	22
B-13864	C30	AEM	22
B-13864	C31	AEM	22
B-13864	C32	AEM	23
B-13864	C33	AEM	23
B-13864	C34	AEM	13
B-13864	C35	AEM	14
B-13864	C36	AEM	14
B-13864	C37	AEM	14
B-13864	C38	AEM	14
B-13864	C39	AEM	15
B-13864	C40	AEM	15
B-13864	C41	AEM	15
B-13864	C42	AEM	15
B-13864	C43	AEM	16
B-13864	C44	AEM	16
B-13864	C45	AEM	16
B-13864	C46	AEM	16
B-13864	C47	AEM	17
B-13864	C48	AEM	17
B-13864	C49	AEM	4
B-13864	C50	AEM	4
B-13864	C51	AEM	4
B-13864	C52	AEM	4
B-13864	C53	AEM	5
B-13864	C54	AEM	5
B-13864	C55	AEM	5
B-13864	C56	AEM	5
B-13864	C57	AEM	6
B-13864	C58	AEM	6
B-13864	C59	AEM	6
B-13864	C60	AEM	6
B-13864	C61	AEM	7
B-13864	C62	AEM	7
B-13864	C63	AEM	7
B-13864	C64	AEM	23
B-13864	C65	AEM	23
B-13864	C66	AEM	24
B-13864	C67	AEM	24
B-13864	C68	AEM	24
B-13864	C69	AEM	24
B-13864	C70	AEM	25
B-13864	C71	AEM	25
B-13864	C72	AEM	25
B-13864	C73	AEM	25
B-13864	C74	AEM	26
B-13864	C75	AEM	26
B-13864	C76	AEM	26
B-13864	C77	AEM	26
B-13864	C78	AEM	27

B-13864	C79	AEM	7
B-13864	C80	AEM	8
B-13864	C81	AEM	8
B-13864	C82	AEM	8
B-13864	C83	AEM	8
B-13864	C84	AEM	9
B-13864	C85	AEM	9
B-13864	C86	AEM	9
B-13864	C87	AEM	9
B-13864	C88	AEM	10
B-13864	C89	AEM	10
B-13864	C90	AEM	10
B-13864	C91	AEM	10
B-13864	C92	AEM	27
B-13864	C93	AEM	27
B-13864	C94	AEM	27
B-13864	C95	AEM	28
B-13864	C96	AEM	28
B-13864	C97	AEM	28
B-13864	C98	AEM	28
B-13864	C99	AEM	29
B-13864	C100	AEM	29
B-13864	C101	AEM	29
B-13864	C102	AEM	29
B-13864	C103	AEM	30
B-13864	C104	AEM	30
B-13864	C105	AEM	30
B-13864	C106	AEM	30
B-13864	C107	AEM	31
B-13864	C108	AEM	31
B-13864	C109	AEM	31
B-13864	C110	AEM	31
B-13864	C111	AEM	32
B-13864	C112	AEM	32
B-13864	C113	AEM	32
B-13864	C114	AEM	32
B-13946	C01	AEC	1
B-13946	C02	AEC	1
B-13946	C03	AEC	1
B-13946	C04	AEC	1
B-13946	C05	AEM	1
B-13946	C06	AEL	2
B-13946	C07	AEM	11
B-13946	C08	AEB	1
B-13946	C09	AEM	33
B-13946	C10	BF	2
B-13946	C11	BF	1
B-13946	C12	BF	1
B-13946	C13	BF	1
B-13946	C14	BF	4
B-13946	C15	BF	13
B-13946	C16	BG	1
B-13946	C17	BG	1
B-13946	C18	BG	1
B-13946	C19	BG	1
B-13946	C20	AEM	33
B-13946	C21	BG	2
B-13946	C22	BG	2
B-13946	C23	AEM	33
B-13946	C24	BN	1
B-13946	C25	BG	13
B-13946	C26	BF	3
B-13946	C27	BF	2
B-14004	C01	CJ	1
B-14004	C54	AEM	34
B-14004	C55	AEG	2
B-14004	C56	AEG	1
B-14004	C57	AET	3
B-14004	C58	AET	3
B-14004	C59	AEL	3
B-14004	C60	ATT	4
B-14004	C61	BF	7
B-14004	C62	BF	4
B-14004	C63	AEM	11
B-14004	C64	AEM	11
B-14004	C65	AEM	11
B-14004	C66	AEM	11
B-14004	C67	AEM	35
B-14004	C68	AEM	17
B-14004	C69	AEM	12
B-14004	C70	AEM	35
B-14004	C71	AEM	12
B-14004	C72	AEM	35
B-14004	C73	AEM	12
B-14004	C74	AEM	12
B-14004	C75	AEM	12
B-14004	C76	AEM	12
B-14004	C77	AEM	12
B-14004	C78	AEM	13
B-14004	C79	AEM	17
B-14004	C80	AEM	3
B-14004	C81	BF	3
B-14004	C82	BF	2
B-14004	C83	BF	3
B-14004	C84	BF	5

B-14004 085	BF	3
B-14004 086	BF	3
B-14004 087	BF	3
B-14004 088	BF	3
B-14004 089	BF	6
B-14004 090	BF	8
B-14004 091	BF	6
B-14004 092	BF	6
B-14004 093	BF	6
B-14004 094	BF	7
B-14004 095	BF	7
B-14004 096	BF	7
B-14004 097	BG	16
B-14004 098	BG	17
B-14004 099	BG	10
B-14004 100	BG	10
B-14004 101	BG	3
B-14004 102	BG	3
B-14004 103	BG	8
B-14004 104	BG	8
B-14004 105	BG	17
B-14004 106	BG	17
B-14004 107	BG	17
B-14004 108	BG	18
B-14004 109	BG	18
B-14004 110	BG	18

**ECBDA BLUE, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 C28	AER	1
B-13501 C30	AER	1
B-13501 C35	AER	2
B-13501 C36	AEM	1
B-13501 C38	AEL	1
B-13501 C47	AEO	1
B-13501 C52	AEP	1
B-13501 C55	AEP	2
B-13501 C63	AEP	3
B-13501 C83	AAKA	4
B-13501 C87	AAKA	5
B-13501 C88	AAKA	5

**ECBDB GREEN, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 071	AEP	4
B-13864 007	BG	4
B-13946 016	BG	13
B-13946 017	BG	1
B-13946 027	BG	2

**ECBDC YELLOW, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 C13	AEM	1
B-13946 C10	BF	2
B-14004 C61	BF	7
B-14004 C69	AEM	11
B-14004 078	AEM	12
B-14004 082	BF	2
B-14004 C88	BF	3

**ECBDD ORANGE, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-14004 C68	AEM	11
B-14004 C77	AEM	12

**ECBDE RED, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 040	AEL	1
B-13946 C01	AEC	1
B-13946 C15	BF	4
B-13946 C35	BF	2
B-14004 C90	BF	8

**ECBDF BROWN, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 C65	AAKA	1
B-13864 004	BF	1
B-13864 019	AEM	2
B-13864 079	AEM	7
B-13864 080	AEM	8
B-13864 081	AEM	8
B-13864 082	AEM	8
B-13864 083	AEM	8
B-13864 084	AEM	9
B-13864 085	AEM	9
B-13864 086	AEM	9
B-13864 087	AEM	9
B-13864 088	AEM	10
B-13864 089	AEM	10

B-13864 090	AEM	10
B-13864 091	AEM	10
B-13946 011	BF	1

**ECBEG FIELD DRAB, COLOR, VISIBLE,
(.4-.7 MICRONS) OPTICAL, SPECTRA**

B-13501 077	AAKA	2
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**ECBEM KHAKI, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 084	AAKA	4
B-13501 085	AAKA	4

**ECBFI OLIVE DRAB, COLOR, VISIBLE,
(.4-.7 MICRONS) OPTICAL, SPECTRA**

B-13501 C01	AEM	18
B-13501 C02	AEM	18
B-13501 C03	AEM	18
B-13501 C04	AEM	18
B-13501 C05	AEM	19
B-13501 C07	AEM	19
B-13501 014	AFM	19
B-13501 048	AEO	1
B-13501 049	AEO	1
B-13501 050	AEP	1
B-13501 057	AEP	2
B-13501 C58	AEP	2
B-13501 059	AEO	2
B-13501 C60	AEO	2
B-13501 C69	AEP	4
B-13501 C73	AAKA	1
B-13501 074	AAKA	2
B-13501 075	AAKA	2
B-13501 078	AAKA	3
B-13501 079	AAKA	3
B-13501 C80	AAKA	3
B-13501 C81	AAKA	3
B-13501 C82	AAKA	4
B-13501 C86	AAKA	5
B-13621 C01	AFM	19
B-13621 C02	AEM	20
B-13621 C03	AEM	20
B-13864 C02	AEM	20
B-13864 C25	AEM	21
B-13864 C26	AEM	21
B-13864 C27	AEM	21
B-13864 C28	AEM	22
B-13864 C29	AEM	22
B-13864 105	AEM	30
B-13864 106	AEM	30
B-13864 107	AEM	31
B-13864 108	AEM	31
B-13864 109	AEM	31
B-13864 110	AEM	31
B-13864 111	AEM	32
B-13864 112	AEM	32
B-13864 113	AEM	32
B-13864 114	AEM	32
B-13946 C09	AEM	33
B-13946 C20	AEM	33
B-13946 C23	AEM	33
B-13946 C30	AEM	33
B-14004 C02	AEM	34
B-14004 C03	AEM	34
B-14004 004	AEM	34
B-14004 C54	AEM	34
B-14004 071	AEM	35

**ECBFI WHITE, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 031	AER	1
B-13501 032	AER	2
B-13501 C46	AEO	1
B-13501 C61	AAKA	1
B-14004 012	BF	4
B-14004 C83	BF	3

**ECBFI GREY, COLOR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA**

B-13501 033	AER	2
B-13501 C37	AEM	2
B-13501 039	AEL	1
B-13501 051	AAKA	1
B-13501 070	AEO	2
B-13501 076	AAKA	2
B-13864 008	AEM	2
B-13864 020	AEM	2
B-13864 C21	AEM	3
B-13864 022	AEM	3

B-13864	C23	AEM	3
B-13864	C24	AEM	3
B-13864	C49	AEM	4
B-13864	C50	AEM	4
B-13864	C51	AEM	4
B-13864	C52	AEM	4
B-13864	C53	AEM	5
B-13864	C54	AEM	5
B-13864	C55	AEM	5
B-13864	C56	AEM	5
B-13864	C57	AEM	6
B-13864	C58	AEM	6
B-13864	C59	AEM	6
B-13864	C60	AEM	6
B-13864	C61	AEM	7
B-13864	C62	AEM	7
B-13864	C63	AEM	7
B-13946	C05	AEM	1
B-13946	C12	BF	1
B-14004	C73	AEM	12
B-14004	C75	AEM	12
B-14004	C93	BF	6

ECBBL BLACK, COLCR, VISIBLE (.4-.7 MICRONS),
OPTICAL, SPECTRA

B-13501	C16	AEM	1
B-13501	C17	AEM	1
B-13501	C29	AER	1
B-13501	C34	AER	2
B-13501	C53	AEP	1
B-13501	C54	AEP	1
B-13501	C56	AEP	2
B-13501	C62	BP	3
B-13501	C64	AEP	3
B-13501	C66	AEP	3
B-13501	C67	AEP	4
B-13501	C68	AEP	4
B-13501	C72	AEO	2
B-13501	C89	AEP	5
B-13946	C07	AEM	11
B-13946	C13	BF	1
B-14004	C06	AAKA	5
B-14004	C07	AAKA	6
B-14004	C70	AEM	11
B-14004	C79	AEM	13
B-14004	C81	BF	3

ECCA .7-1.5 MICRONS, IR, OPTICAL, SPECTRA

B-13501	C07	AEM	18
B-13501	C02	AEM	18
B-13501	C03	AEM	18
B-13501	C04	AEM	18
B-13501	C05	AEM	19
B-13501	C06	AEM	35
B-13501	C07	AEM	19
B-13501	C08	AEM	36
B-13501	C09	AEM	13
B-13501	C10	AEM	36
B-13501	C11	AEM	36
B-13501	C12	AEM	37
B-13501	C13	AEM	1
B-13501	C14	AEM	19
B-13501	C15	AEM	13
B-13501	C16	AEM	1
B-13501	C17	AEM	1
B-13501	C18	AEM	1
B-13501	C19	CJ	1
B-13501	C20	CJ	1
B-13501	C21	AET	1
B-13501	C22	AET	1
B-13501	C23	AET	1
B-13501	C24	AET	1
B-13501	C25	AET	2
B-13501	C26	AET	2
B-13501	C27	AET	2
B-13501	C28	AER	1
B-13501	C29	AER	1
B-13501	C30	AER	1
B-13501	C31	AER	1
B-13501	C32	AER	2
B-13501	C33	AER	2
B-13501	C34	AER	2
B-13501	C35	AER	2
B-13501	C36	AEM	1
B-13501	C37	AEM	2
B-13501	C38	AEL	1
B-13501	C39	AEL	1
B-13501	C40	AEL	1
B-13501	C41	AEL	1

B-13501	C42	AEL	2
B-13501	C43	AEL	2
B-13501	C44	AEL	2
B-13501	C45	AEA	1
B-13501	C46	AEO	1
B-13501	C47	AEO	1
B-13501	C48	AEO	1
B-13501	C49	AEO	1
B-13501	C50	AEP	1
B-13501	C51	AAKA	1
B-13501	C52	AEP	1
B-13501	C53	AEP	1
B-13501	C54	AEP	1
B-13501	C55	AEP	2
B-13501	C56	AEP	2
B-13501	C57	AEP	2
B-13501	C58	AEP	2
B-13501	C59	AEO	2
B-13501	C60	AEO	2
B-13501	C61	AAKA	1
B-13501	C62	AEP	3
B-13501	C63	AEP	3
B-13501	C64	AEP	3
B-13501	C65	AAKA	1
B-13501	C66	AEP	3
B-13501	C67	AEP	4
B-13501	C68	AEP	4
B-13501	C69	AEP	4
B-13501	C70	AEO	2
B-13501	C71	AEP	4
B-13501	C72	AEO	2
B-13501	C73	AAKA	1
B-13501	C74	AAKA	2
B-13501	C75	AAKA	2
B-13501	C76	AAKA	2
B-13501	C77	AAKA	2
B-13501	C78	AAKA	3
B-13501	C79	AAKA	3
B-13501	C80	AAKA	3
B-13501	C81	AAKA	3
B-13501	C82	AAKA	4
B-13501	C83	AAKA	4
B-13501	C84	AAKA	4
B-13501	C85	AAKA	4
B-13501	C86	AAKA	5
B-13501	C87	AAKA	5
B-13501	C88	AAKA	5
B-13501	C89	AEP	5
B-13946	C01	AEC	1
B-13946	C02	AEA	1
B-13946	C03	AER	1
B-13946	C04	AER	1
B-13946	C05	AEM	1
B-13946	C06	AEL	2
B-13946	C07	AEM	11
B-13946	C08	AEB	1
B-13946	C09	AEM	33
B-13946	C10	BF	2
B-13946	C11	BF	1
B-13946	C12	BF	1
B-13946	C13	BF	1
B-13946	C15	BF	4
B-13946	C16	BG	13
B-13946	C17	BG	1
B-13946	C18	BG	1
B-13946	C19	BG	1
B-13946	C20	AEM	33
B-13946	C27	BG	2
B-13946	C29	BG	2
B-13946	C30	AEM	33
B-13946	C31	BH	1
B-13946	C32	BG	13
B-13946	C34	BF	3
B-13946	C35	BF	2
B-14004	C01	CJ	1
B-14004	C68	AEM	11
B-14004	C69	AEM	11
B-14004	C70	AEM	11
B-14004	C71	AEM	35
B-14004	C72	AEM	17
B-14004	C73	AEM	12
B-14004	C74	AEM	35
B-14004	C75	AEM	12
B-14004	C76	AEM	35
B-14004	C77	AEM	12
B-14004	C78	AEM	12
B-14004	C79	AEM	13
B-14004	C80	AEM	17
B-14004	C81	BF	3

B-14004 C82	BF	2
B-14004 C83	BF	3
B-14004 C84	BF	5
B-14004 C85	BF	5
B-14004 C86	BF	5
B-14004 C87	BF	5
B-14004 C88	BF	3
B-14004 C89	BF	6
B-14004 C90	BF	8
B-14004 C91	BF	6
B-14004 C92	BF	6
B-14004 C93	BF	6
B-14004 C94	BF	7
B-14004 C95	BF	7
B-14004 C96	BF	7
B-14004 C97	BC	16
B-14004 C98	BC	17
B-14004 C99	BC	10
B-14004 100	BC	10
B-14004 101	BC	3
B-14004 102	BC	3
B-14004 103	BC	8
B-14004 104	BC	8
B-14004 105	BC	17
B-14004 106	BC	17
B-14004 107	BC	17
B-14004 108	BC	18
B-14004 109	BC	18
B-14004 110	BC	18

ECCC 1.5-3.0 MICRONS, IR, OPTICAL, SPECTRA

B-13501 C01	AEH	18
B-13501 C02	AEH	18
B-13501 C03	AEH	18
B-13501 C04	AEH	18
B-13501 C05	AEH	19
B-13501 C06	AEH	35
B-13501 C07	AEH	19
B-13501 C08	AEH	36
B-13501 C09	AEH	13
B-13501 C10	AEH	36
B-13501 C11	AEH	36
B-13501 C12	AEH	37
B-13501 C13	AEH	1
B-13501 C14	AEH	19
B-13501 C15	AEH	13
B-13501 C16	AEH	1
B-13501 C17	AEH	1
B-13501 C18	AEI	1
B-13501 C19	CJ	1
B-13501 C20	CJ	1
B-13501 C21	AEI	1
B-13501 C22	AEI	1
B-13501 C23	AEI	1
B-13501 C24	AEI	1
B-13501 C25	AEI	2
B-13501 C26	AEI	2
B-13501 C27	AEI	2
B-13501 C28	AEH	1
B-13501 C29	AEH	1
B-13501 C30	AEH	1
B-13501 C31	AEH	1
B-13501 C32	AEH	2
B-13501 C33	AEH	2
B-13501 C34	AEH	2
B-13501 C35	AEH	2
B-13501 C36	AEH	1
B-13501 C37	AEH	2
B-13501 C38	AEI	1
B-13501 C39	AEI	1
B-13501 C40	AEI	1
B-13501 C41	AEI	1
B-13501 C42	AEI	2
B-13501 C43	AEI	2
B-13501 C44	AEI	2
B-13501 C45	AEA	1
B-13501 C46	AEI	1
B-13501 C47	AEI	1
B-13501 C48	AEI	1
B-13501 C49	AEI	1
B-13501 C50	AEI	1
B-13501 C51	AEI	1
B-13501 C52	AEI	1
B-13501 C53	AEI	1
B-13501 C54	AEI	1
B-13501 C55	AEI	2
B-13501 C56	AEI	2
B-13501 C57	AEI	2
B-13501 C58	AEI	2

B-13501 C59	AEI	2
B-13501 C60	AEI	2
B-13501 C61	AEI	1
B-13501 C62	AEI	3
B-13501 C63	AEI	3
B-13501 C64	AEI	3
B-13501 C65	AEI	1
B-13501 C66	AEI	3
B-13501 C67	AEI	4
B-13501 C68	AEI	4
B-13501 C69	AEI	4
B-13501 C70	AEI	2
B-13501 C71	AEI	4
B-13501 C72	AEI	2
B-13501 C73	AEI	1
B-13501 C74	AEI	2
B-13501 C75	AEI	2
B-13501 C76	AEI	2
B-13501 C77	AEI	2
B-13501 C78	AEI	3
B-13501 C79	AEI	3
B-13501 C80	AEI	3
B-13501 C81	AEI	3
B-13501 C82	AEI	4
B-13501 C83	AEI	4
B-13501 C84	AEI	4
B-13501 C85	AEI	4
B-13501 C86	AEI	5
B-13501 C87	AEI	5
B-13501 C88	AEI	5
B-13501 C89	AEI	5
B-13501 C90	AEI	3
B-13501 C91	AEI	2
B-13501 C92	AEI	1
B-13501 C93	AEI	11
B-13501 C94	AEI	11
B-13501 C95	AEI	11
B-13501 C96	AEI	35
B-13501 C97	AEI	17
B-13501 C98	AEI	12
B-13501 C99	AEI	35
B-13501 C100	AEI	12
B-13501 C101	AEI	12
B-13501 C102	AEI	12
B-13501 C103	AEI	13
B-13501 C104	AEI	17
B-13501 C105	AEI	3
B-13501 C106	AEI	2
B-13501 C107	AEI	3
B-13501 C108	AEI	5
B-13501 C109	AEI	5
B-13501 C110	AEI	5

ECCC 3-5 MICRONS, IR, OPTICAL, SPECTRA

B-13501 C01	AEH	18
B-13501 C02	AEH	18
B-13501 C03	AEH	18
B-13501 C04	AEH	18
B-13501 C05	AEH	19
B-13501 C06	AEH	35
B-13501 C07	AEH	19
B-13501 C08	AEH	36
B-13501 C09	AEH	13
B-13501 C10	AEH	36

B-13501 C11	AEM	36
B-13501 C12	AEM	37
B-13501 C13	AEM	1
B-13501 C14	AEM	19
B-13501 C15	AEM	13
B-13501 C16	AEM	1
B-13501 C17	AEM	1
B-13501 C18	AEL	1
B-13501 C19	CJ	1
B-13501 C20	CJ	1
B-13501 C21	AET	1
B-13501 C22	AET	1
B-13501 C23	AET	1
B-13501 C24	AET	1
B-13501 C25	AET	2
B-13501 C26	AET	2
B-13501 C27	AET	2
B-13501 C28	AER	1
B-13501 C29	AER	1
B-13501 C30	AER	1
B-13501 C31	AER	1
B-13501 C32	AER	2
B-13501 C33	AER	2
B-13501 C34	AER	2
B-13501 C35	AER	2
B-13501 C36	AEM	2
B-13501 C37	AEM	2
B-13501 C38	AEL	1
B-13501 C39	AEL	1
B-13501 C40	AEL	1
B-13501 C41	AEL	1
B-13501 C42	AEL	2
B-13501 C43	AEL	2
B-13501 C44	AEL	2
B-13501 C45	AEA	1
B-13501 C46	AEO	1
B-13501 C47	AEO	1
B-13501 C48	AEO	1
B-13501 C49	AEO	1
B-13501 C50	AEP	1
B-13501 C51	AAKA	1
B-13501 C52	AEP	1
B-13501 C53	AEP	1
B-13501 C54	AEP	1
B-13501 C55	AEP	2
B-13501 C56	AEP	2
B-13501 C57	AEP	2
B-13501 C58	AEP	2
B-13501 C59	AEO	2
B-13501 C60	AEO	2
B-13501 C61	AAKA	1
B-13501 C62	AEP	3
B-13501 C63	AEP	3
B-13501 C64	AEP	3
B-13501 C65	AAKA	1
B-13501 C66	AEP	3
B-13501 C67	AEP	4
B-13501 C68	AEP	4
B-13501 C69	AEP	4
B-13501 C70	AEO	2
B-13501 C71	AEP	4
B-13501 C72	AEO	2
B-13501 C73	AAKA	1
B-13501 C74	AAKA	2
B-13501 C75	AAKA	2
B-13501 C76	AAKA	2
B-13501 C77	AAKA	2
B-13501 C78	AAKA	3
B-13501 C79	AAKA	3
B-13501 C80	AAKA	3
B-13501 C81	AAKA	3
B-13501 C82	AAKA	4
B-13501 C83	AAKA	4
B-13501 C84	AAKA	4
B-13501 C85	AAKA	4
B-13501 C86	AAKA	5
B-13501 C87	AAKA	5
B-13501 C88	AAKA	5
B-13501 C89	AEP	5
B-13621 C01	AEM	19
B-13621 C02	AEM	20
B-13621 C03	AEM	20

ECED 9-8 MICRONS, IR, OPTICAL, SPECTRA

B-13501 C01	AEM	18
B-13501 C02	AEM	18
B-13501 C03	AEM	18
B-13501 C04	AEM	18
B-13501 C05	AEM	19

B-13501 C06	AEM	35
B-13501 C07	AEM	19
B-13501 C08	AEM	36
B-13501 C09	AEM	13
B-13501 C10	AEM	36
B-13501 C11	AEM	36
B-13501 C12	AEM	37
B-13501 C13	AEM	1
B-13501 C14	AEM	19
B-13501 C15	AEM	13
B-13501 C16	AEM	1
B-13501 C17	AEM	1
B-13501 C18	AEL	1
B-13501 C19	CJ	1
B-13501 C20	CJ	1
B-13501 C21	AET	1
B-13501 C22	AET	1
B-13501 C23	AET	1
B-13501 C24	AET	1
B-13501 C25	AET	2
B-13501 C26	AET	2
B-13501 C27	AET	2
B-13501 C28	AER	1
B-13501 C29	AER	1
B-13501 C30	AER	1
B-13501 C31	AER	1
B-13501 C32	AER	2
B-13501 C33	AER	2
B-13501 C34	AER	2
B-13501 C35	AER	2
B-13501 C36	AEM	1
B-13501 C37	AEM	2
B-13501 C38	AEL	1
B-13501 C39	AEL	1
B-13501 C40	AEL	1
B-13501 C41	AEL	1
B-13501 C42	AEL	2
B-13501 C43	AEL	2
B-13501 C44	AEL	2
B-13501 C45	AEA	1
B-13501 C46	AEO	1
B-13501 C47	AEO	1
B-13501 C48	AEO	1
B-13501 C49	AEO	1
B-13501 C50	AEP	1
B-13501 C51	AAKA	1
B-13501 C52	AEP	1
B-13501 C53	AEP	1
B-13501 C54	AEP	1
B-13501 C55	AEP	2
B-13501 C56	AEP	2
B-13501 C57	AEP	2
B-13501 C58	AEP	2
B-13501 C59	AEO	2
B-13501 C60	AEO	2
B-13501 C61	AAKA	1
B-13501 C62	AEP	3
B-13501 C63	AEP	3
B-13501 C64	AEP	3
B-13501 C65	AAKA	1
B-13501 C66	AEP	3
B-13501 C67	AEP	4
B-13501 C68	AEP	4
B-13501 C69	AEP	4
B-13501 C70	AEO	2
B-13501 C71	AEP	4
B-13501 C72	AEO	2
B-13501 C73	AAKA	1
B-13501 C74	AAKA	2
B-13501 C75	AAKA	2
B-13501 C76	AAKA	2
B-13501 C77	AAKA	2
B-13501 C78	AAKA	3
B-13501 C79	AAKA	3
B-13501 C80	AAKA	3
B-13501 C81	AAKA	3
B-13501 C82	AAKA	4
B-13501 C83	AAKA	4
B-13501 C84	AAKA	4
B-13501 C85	AAKA	4
B-13501 C86	AAKA	4
B-13501 C87	AAKA	4
B-13501 C88	AAKA	4
B-13501 C89	AEP	4
B-13621 C01	AEM	19
B-13621 C02	AEM	20
B-13621 C03	AEM	20

ECCE 8-15 MICRONS, IR, OPTICAL, SPECTRA

8-13501 C01	ARM	18
8-13501 C02	ARM	18
8-13501 C03	ARM	18
8-13501 C04	ARM	18
8-13501 C05	ARM	19
8-13501 C06	ARM	35
8-13501 C07	ARM	19
8-13501 C08	ARM	36
8-13501 C09	ARM	13
8-13501 C10	ARM	36
8-13501 C11	ARM	36
8-13501 C12	ARM	37
8-13501 C13	ARM	1
8-13501 C14	ARM	19
8-13501 C15	ARM	13
8-13501 C16	ARM	1
8-13501 C17	ARM	1
8-13501 C18	AEI	1
8-13501 C19	CJ	1
8-13501 C20	CJ	1
8-13501 C28	ARR	1
8-13501 C29	AJR	1
8-13501 C30	ARR	1
8-13501 C31	ARR	1
8-13501 C32	ARR	2
8-13501 C33	ARR	2
8-13501 C34	ARR	2
8-13501 C35	ARR	2
8-13501 C36	ARM	1
8-13501 C37	ARM	2
8-13501 C38	AKL	1
8-13501 C39	AKL	1
8-13501 C40	AKL	1
8-13501 C41	AKL	1
8-13501 C42	AKL	2
8-13501 C43	AKL	2
8-13501 C44	AKL	2
8-13501 C45	AEA	1
8-13501 C46	ARO	1
8-13501 C47	ARO	1
8-13501 C48	ARO	1
8-13501 C49	ARO	1
8-13501 C50	ARP	1
8-13501 C51	AAKA	1

8-13501 C52	ARP	1
8-13501 C53	ARP	1
8-13501 C54	ARP	1
8-13501 C55	ARP	2
8-13501 C56	ARP	2
8-13501 C57	ARP	2
8-13501 C58	ARP	2
8-13501 C59	ARO	2
8-13501 C60	ARO	2
8-13501 C61	AAKA	1
8-13501 C62	ARP	3
8-13501 C63	ARP	3
8-13501 C64	ARP	3
8-13501 C65	AAKA	1
8-13501 C66	ARP	3
8-13501 C67	ARP	4
8-13501 C68	ARP	4
8-13501 C69	ARP	4
8-13501 C70	ARO	2
8-13501 C71	ARP	4
8-13501 C72	ARO	2
8-13501 C77	AAKA	2
8-13501 C78	AAKA	3
8-13501 C79	AAKA	3
8-13501 C80	AAKA	3
8-13501 C81	AAKA	3
8-13501 C82	AAKA	4
8-13501 C83	AAKA	4
8-13501 C84	AAKA	4
8-13501 C85	AAKA	4
8-13501 C86	AAKA	5
8-13501 C87	AAKA	5
8-13501 C88	AAKA	5
8-13501 C89	ARP	5
8-13621 C01	ARM	19
8-13621 C02	ARM	20
8-13621 C03	ARM	20

FOE	ANGLE, MEASUREMENT, OPERATIONS	
8-13864 C10	BC	4
8-13864 C11	BC	4
8-13864 C12	BC	4
8-13864 C13	BC	5
8-13864 C14	BC	5
8-13864 C15	BC	5

DATA DOCUMENTS USED IN SECTION 3.2

Unclassified

- B13501 D. K. Wilburn and O. Renius, The Spectral Reflectance of Ordnance Materials at Wavelengths of 1 to 12 Microns (U), Detroit Arsenal, Centerline, Mich., 8 February 1965, AD 087 246 (CONFIDENTIAL).
- B13621 Hayes International Corp., Infrared Tank Study: Supplement to Final Report (U), Hayes International Corp., Birmingham, Ala., 31 January 1961, AD 322 372 (CONFIDENTIAL).
- B13864 V. W. McIntire, Light Polarizing Properties of Terrestrial Backgrounds and Painted Surfaces (U), Naval Ordnance Test Station, China Lake, Calif., September 1964, AD 354 613 (CONFIDENTIAL).
- B13946 Martin-Marietta Corp., Ultraviolet Reconnaissance Techniques (U), Martin-Marietta Corp., Orlando, Fla., May 1964, AD 350 665L (SECRET).
- B14004 A. E. Williamson, Night Reconnaissance Subsystem (U), (Final Technical Documentary Report), Martin-Marietta Corp., Orlando, Fla., November 1964, AD 355 324 (CONFIDENTIAL).

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2. V. W. McIntire, Light Polarizing Properties of Terrestrial Backgrounds and Painted Surfaces (U), Naval Ordnance Test Station, China Lake, Calif., September 1964, AD 354 613 (CONFIDENTIAL).
3. A. E. Williamson, Night Reconnaissance Subsystem (U), (Final Technical Documentary Report), Martin-Marietta Corp., Orlando, Fla., November 1964, AD 355 324 (CONFIDENTIAL).

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