Figure 1

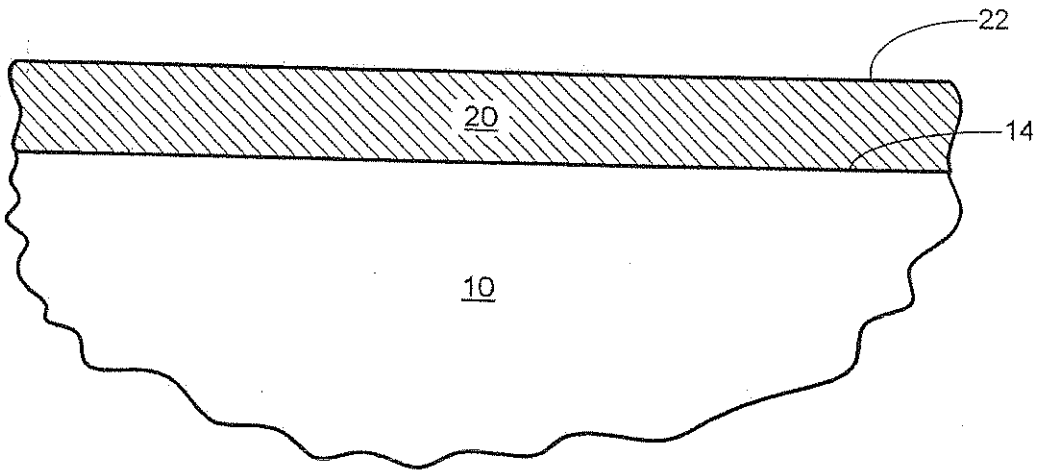


Figure 2

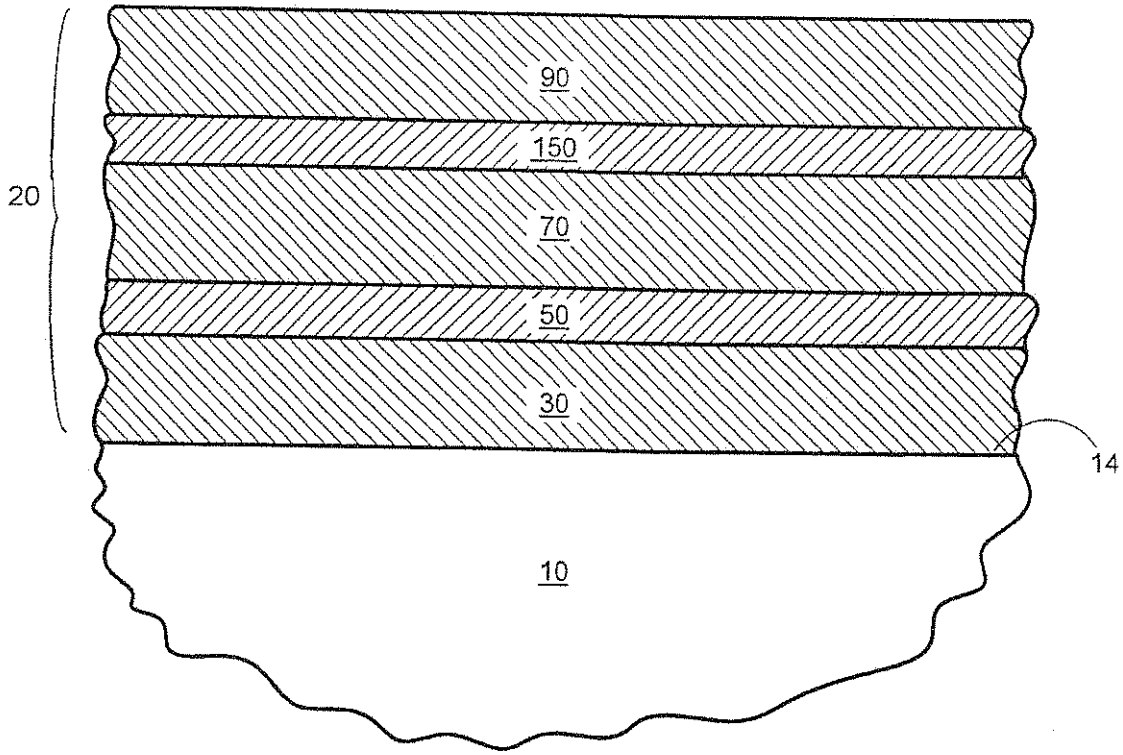
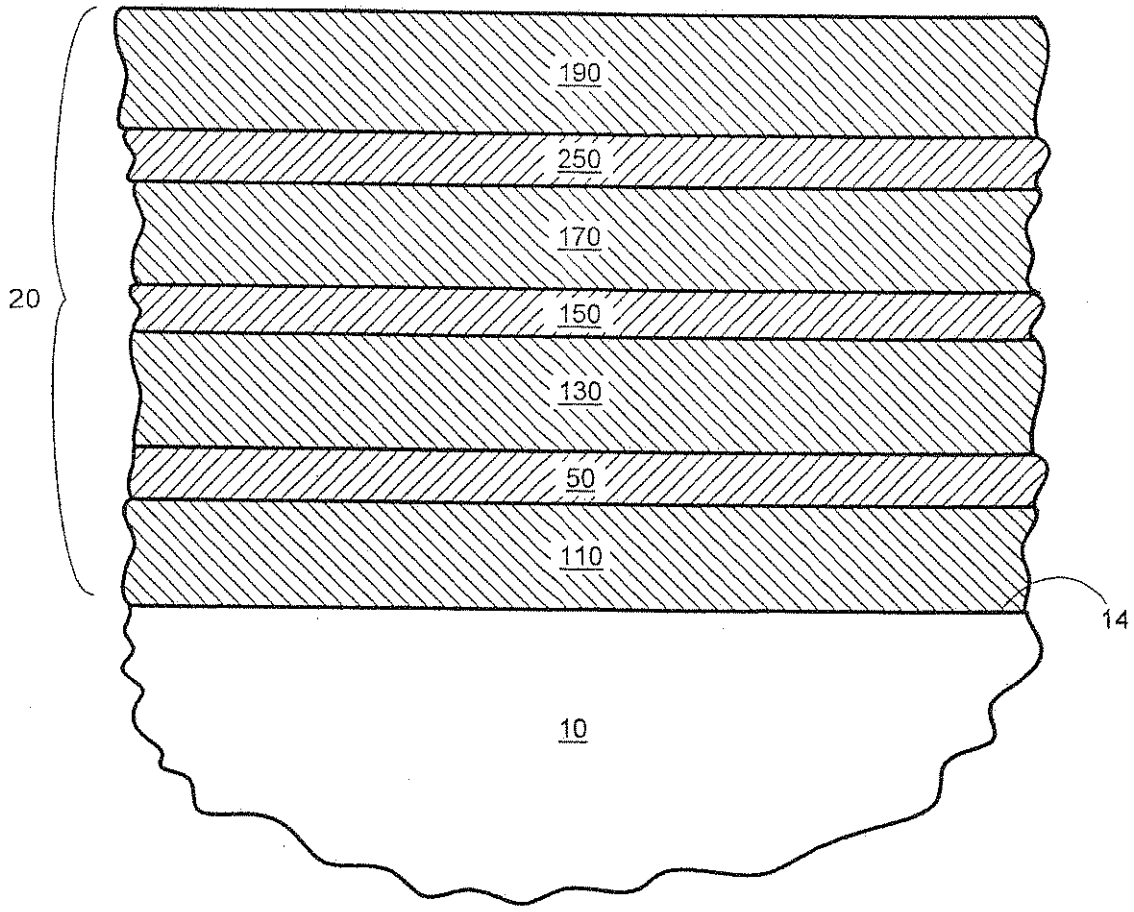


Figure 3



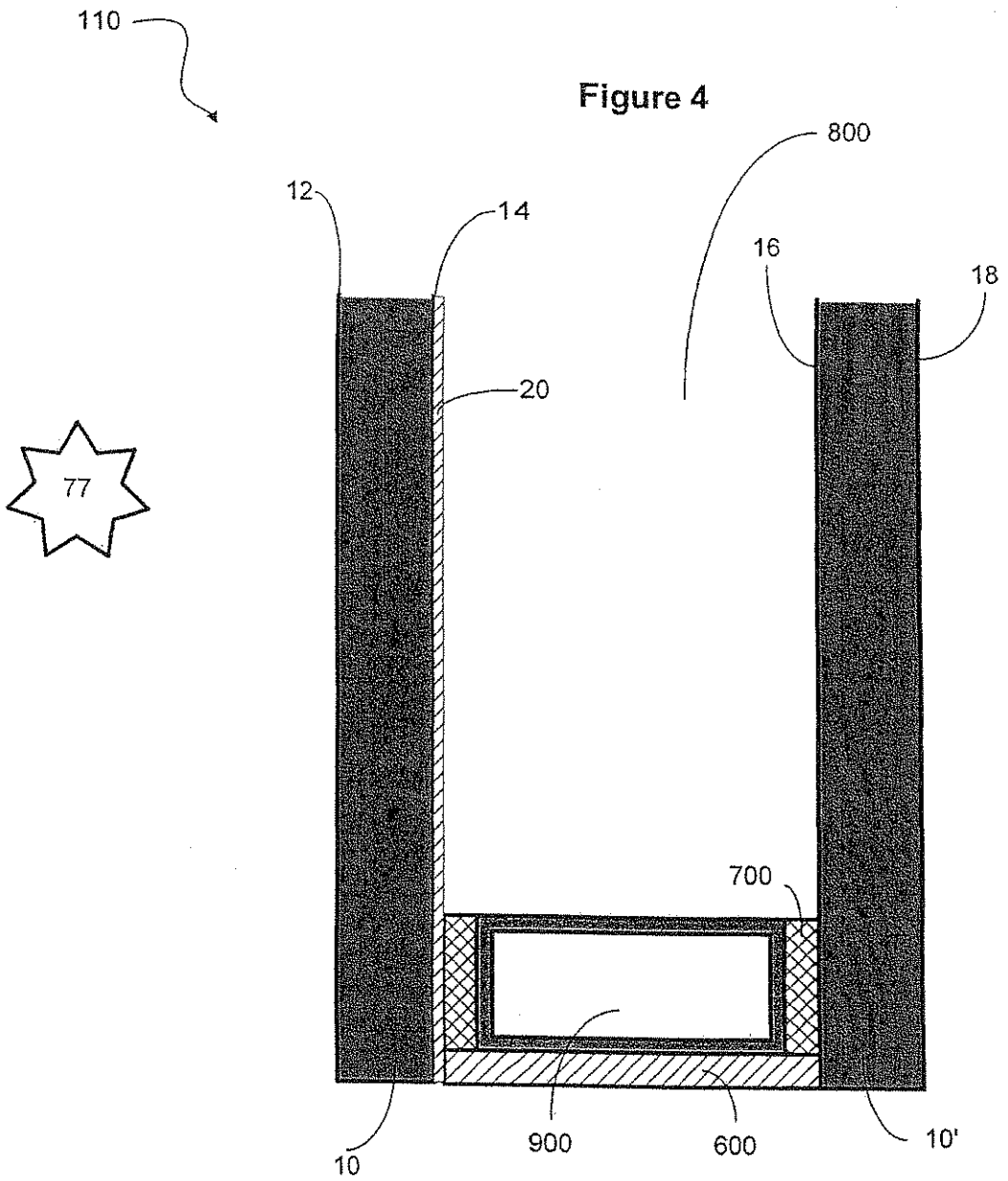


Figure 4

Figure 5

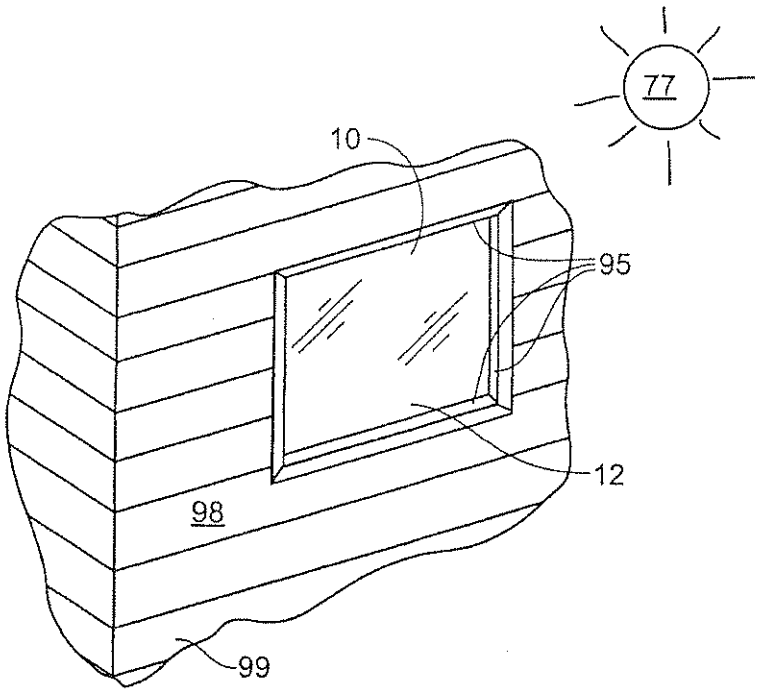


Figure 6

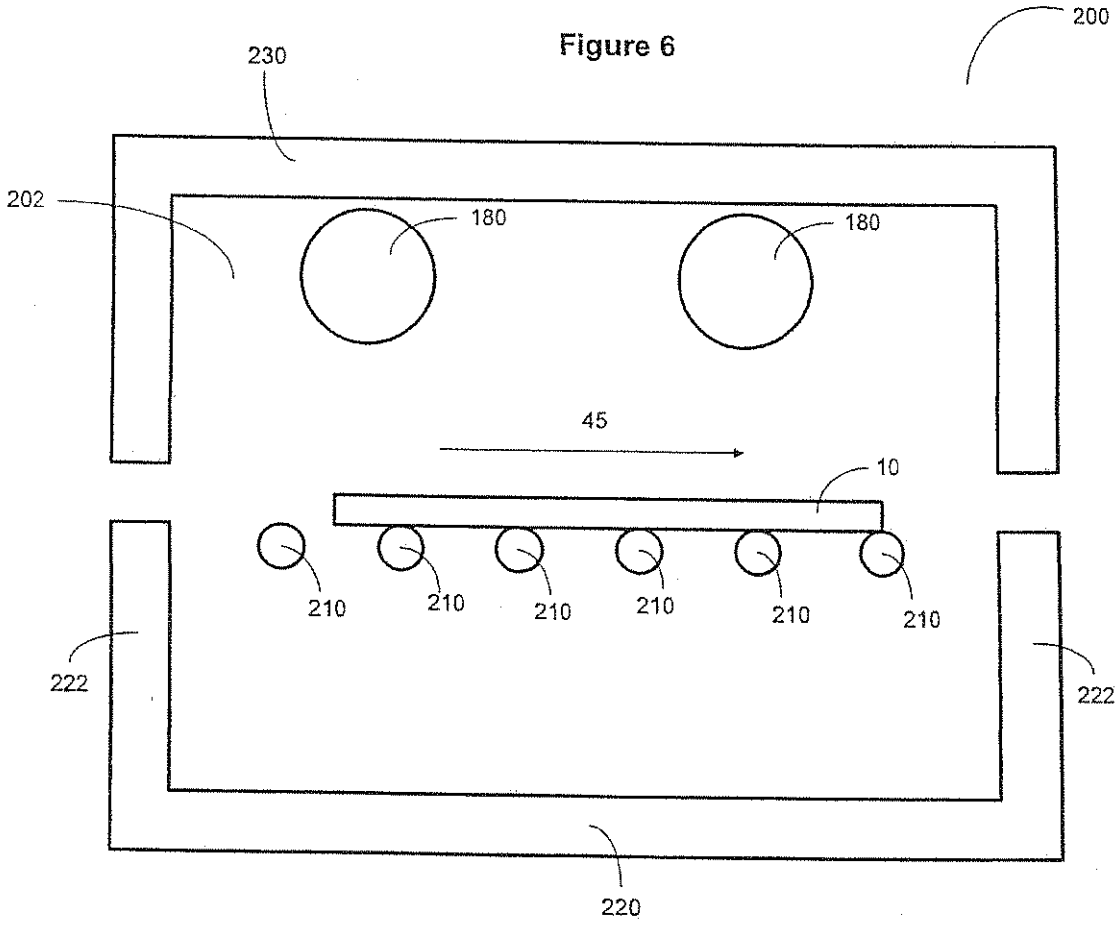


Fig. 7

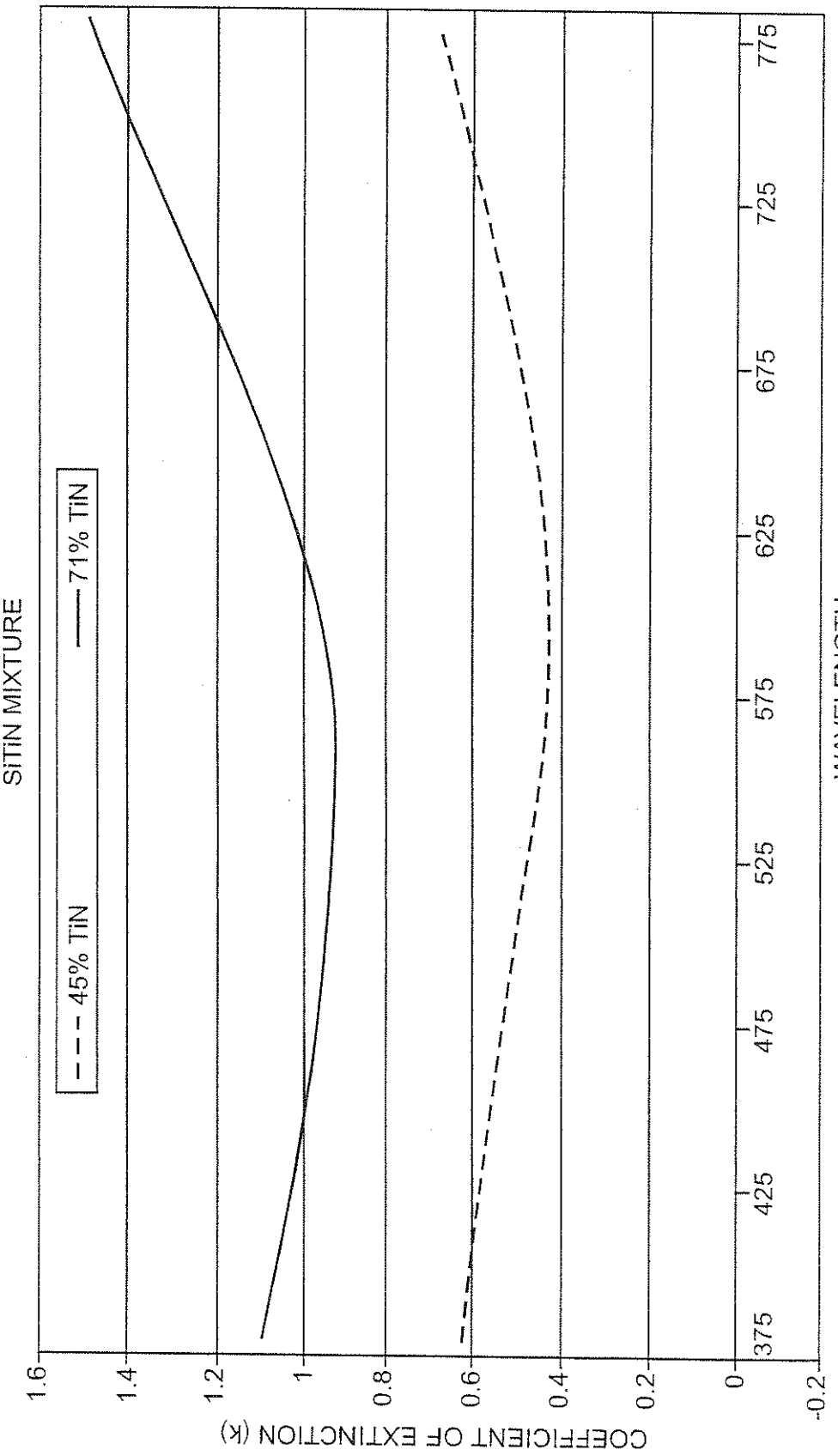

SiTiN MIXTURE
45% TiN
71% TiN
COEFFICIENT OF EXTINCTION (k)
WAVELENGTH
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
375
425
475
525
575
625
675
725
775

Figure 8

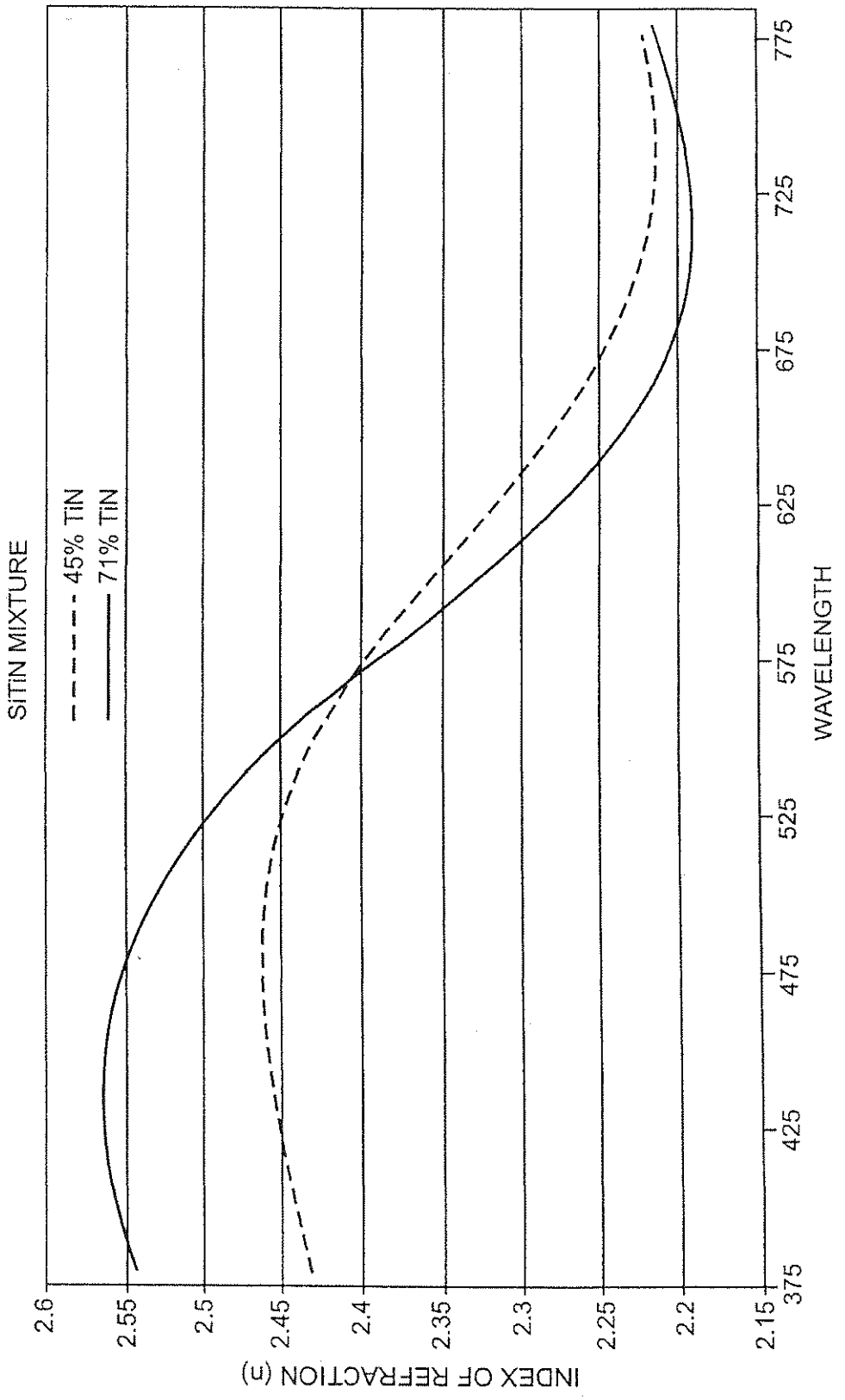

SiTiN MIXTURE
45% TiN
71% TiN
INDEX OF REFRACTION (n)
WAVELENGTH
2.6
2.55
2.5
2.45
2.4
2.35
2.3
2.25
2.2
2.15
375
425
475
525
575
625
675
725
775

Figure 9

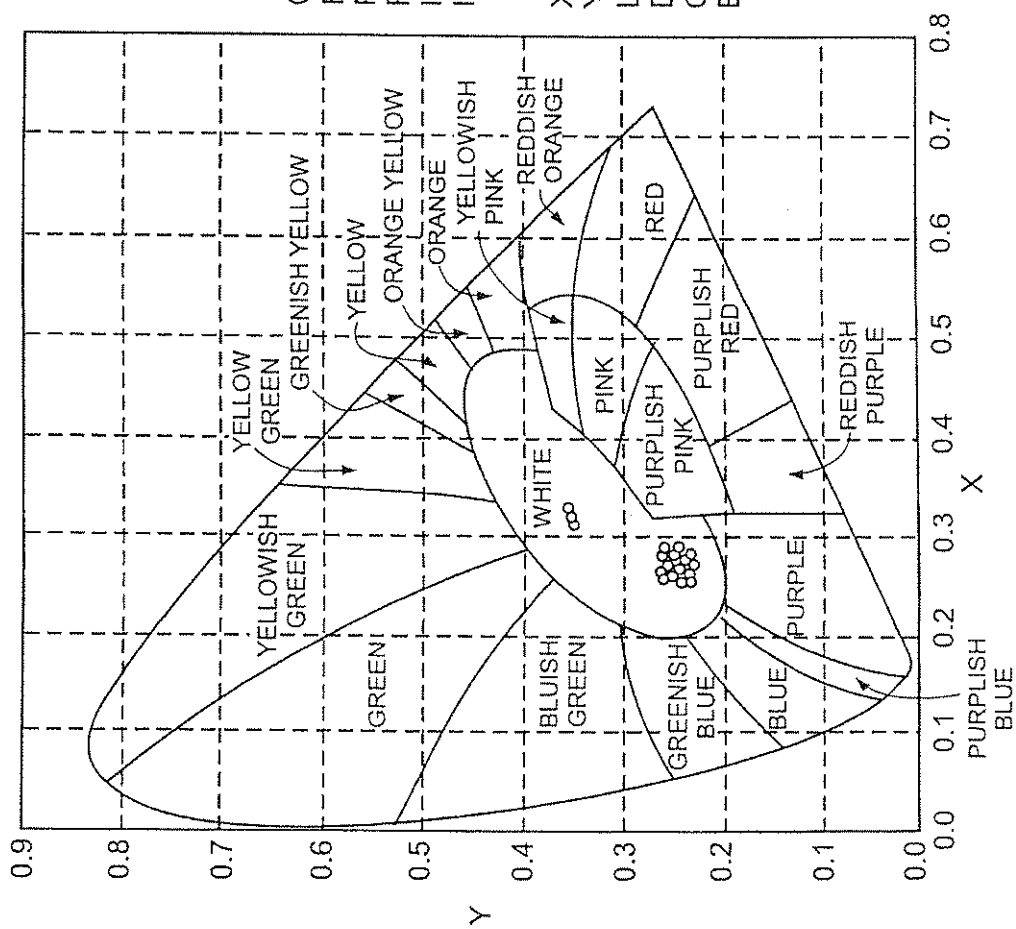
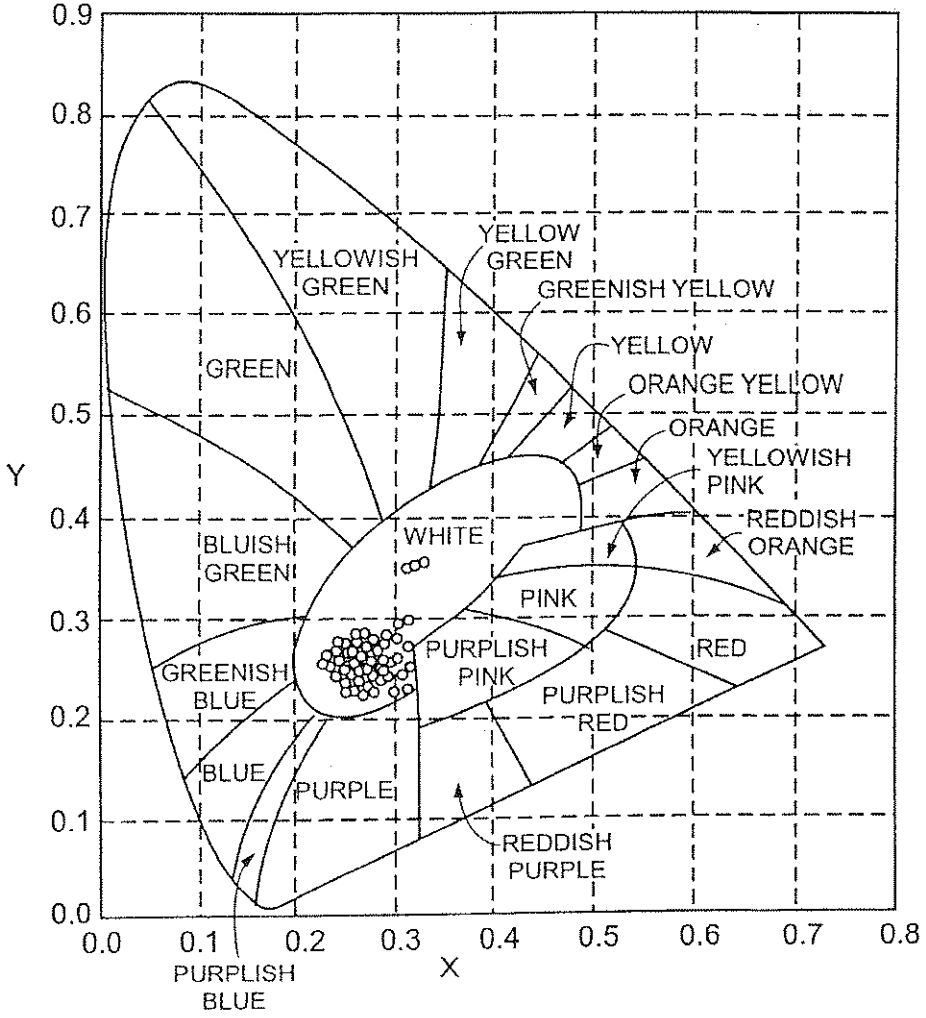

COLOR STANDARD: 1931 CIE
FIELD OF VIEW: 2°
POLARIZATION: AVERAGE
REFERENCE WHITE: CIE-C
ILLUMINANT: WHITE
INCIDENT ANGLE (DEG): 0.0
REFL TRANS
X COORDINATE: 0.264 0.318
Y COORDINATE: 0.248 0.350
LUMINOSITY (%): 7.43 40.07
DOMINANT (nm): 468 561
COMPLEMENTARY (nm): 572 N/A
EXCITATION PURITY: 0.254 0.112
YELLOWISH GREEN
YELLOW GREEN
GREENISH YELLOW
YELLOW
ORANGE YELLOW
ORANGE
YELLOWISH PINK
REDDISH ORANGE
RED
PURPLISH RED
PINK
PURPLISH PINK
WHITE
GREEN
BLUISH GREEN
GREENISH BLUE
BLUE
PURPLE
REDDISH PURPLE
PURPLISH BLUE
Y
X
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9

Figure 10



COLOR STANDARD:	1931 CIE	
FIELD OF VIEW:	2°	
POLARIZATION:	AVERAGE	
REFERENCE WHITE:	CIE-C	
ILLUMINANT:	WHITE	
INCIDENT ANGLE (DEG):	0.0	
	REFL	TRANS
X COORDINATE:	0.265	0.318
Y COORDINATE:	0.249	0.350
LUMINOSITY (%):	7.26	40.07
DOMINANT (nm):	467	561
COMPLEMENTARY (nm):	572	N/A
EXCITATION PURITY:	0.250	0.112

Figure 11

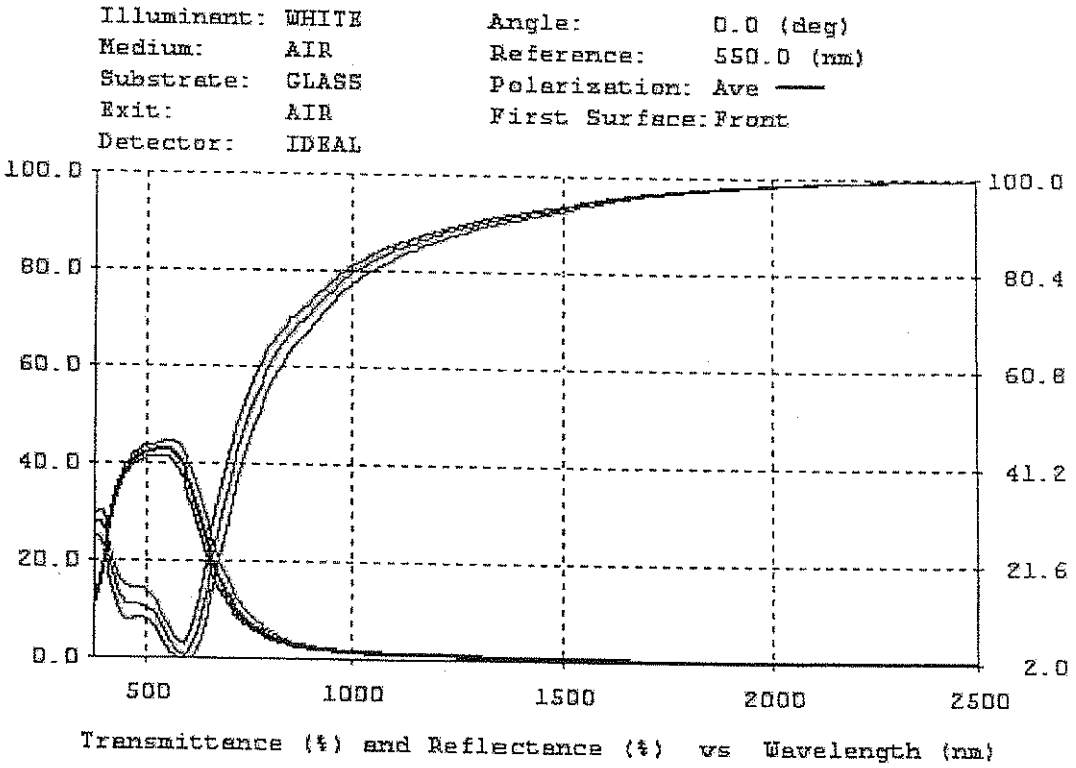

Illuminant: WHITE
Medium: AIR
Substrate: GLASS
Exit: AIR
Detector: IDEAL
Angle: 0.0 (deg)
Reference: 550.0 (nm)
Polarization: Ave
First Surface: Front
100.0
80.0
60.0
40.0
20.0
0.0
100.0
80.4
60.8
41.2
21.6
2.0
500
1000
1500
2000
2500
Transmittance (%) and Reflectance (%) vs Wavelength (nm)

Figure 12

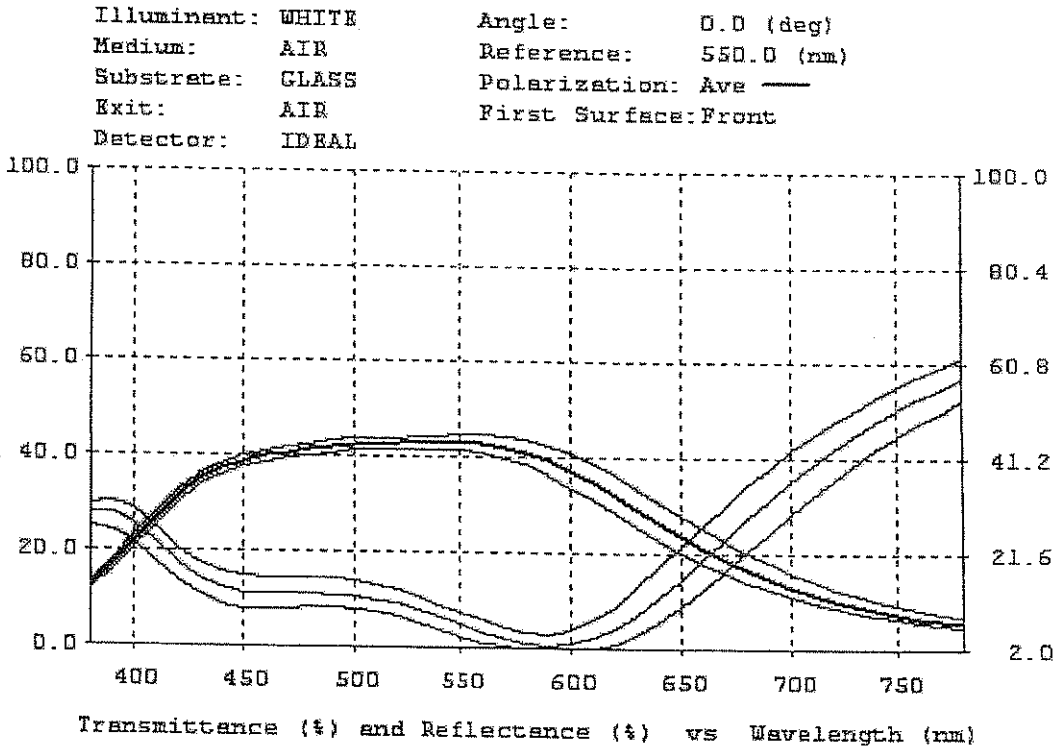

Illuminant: WHITE
Medium: AIR
Substrate: GLASS
Exit: AIR
Detector: IDEAL
Angle: 0.0 (deg)
Reference: 550.0 (nm)
Polarization: Ave
First Surface: Front
100.0
80.0
60.0
40.0
20.0
0.0
100.0
80.4
60.8
41.2
21.6
2.0
400
450
500
550
600
650
700
750
Transmittance (%) and Reflectance (%) vs Wavelength (nm)

Figure 13

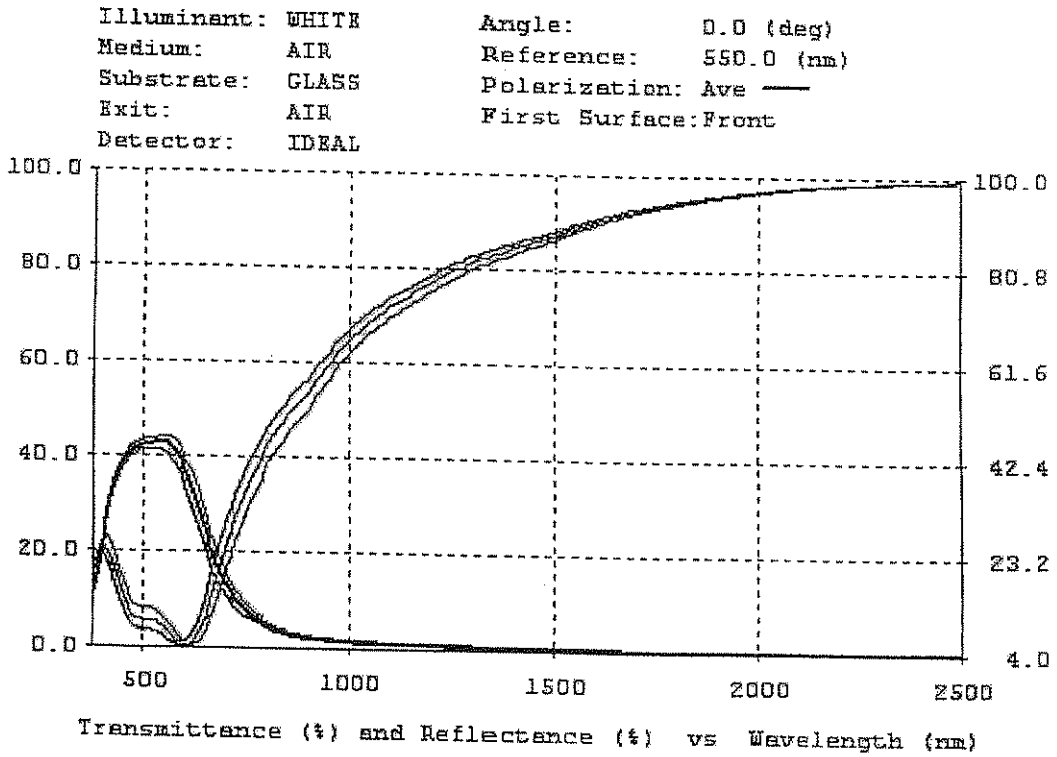
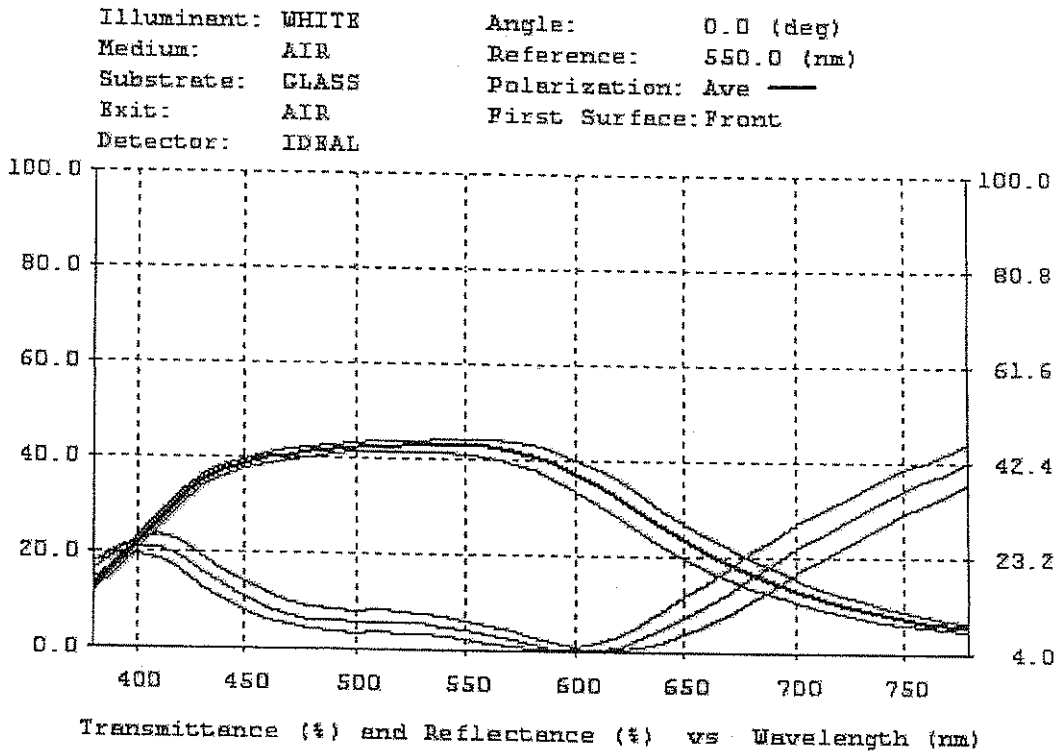

Illuminant: WHITE
Medium: AIR
Substrate: GLASS
Exit: AIR
Detector: IDEAL
Angle: 0.0 (deg)
Reference: 550.0 (nm)
Polarization: Ave
First Surface: Front
100.0
80.0
60.0
40.0
20.0
0.0
100.0
80.8
61.6
42.4
23.2
4.0
500
1000
1500
2000
2500
Transmittance (%) and Reflectance (%) vs Wavelength (nm)

Figure 14


Illuminant: WHITE
Medium: AIR
Substrate: GLASS
Exit: AIR
Detector: IDEAL
Angle: 0.0 (deg)
Reference: 550.0 (nm)
Polarization: Ave
First Surface: Front
100.0
80.0
60.0
40.0
20.0
0.0
100.0
80.8
61.6
42.4
23.2
4.0
400
450
500
550
600
650
700
750
Transmittance (%) and Reflectance (%) vs Wavelength (nm)