



ARTS3570

5Xj UbWX`GdUb]g\`5

HYfa `Hk c` `##`&\$&%

7 ci fgY`Cj Yfj]Yk

GHJZ`7cbHJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	8			

7ci fgY'8YHJ]`g

7fYX]hDc]bhr '*`

Gi a a UfmcZ`h\Y'7ci fgY

H\]g`Wci fgY`dfcj]XYg`UXj UbWX`Yj Y`]bgfhi W]cb`]b`GdUb]g\`Ub[i U[Y`ghi XmiZ`ca`U`Wca a i b]WU]j Y`UbX
hUg`!VUgYX`UddfcUW`"Mci`k`j`XYj Y`cd`mci`f`]ghYb]b[`UbX`gdYU_]b[`g_]`g`h\fc i [\`U`bi a VYf`cZX]ZYfYbh
UW]j]hYgžUg`k`Y`Ug`mci`f`fYUX]b[`UbX`k`f]h]b[`g_]`g`]b`GdUb]g\`"J`cWUVi`UfmUbX`[fUa`a`Uq]WU`ghfi`W`h`fYg
UfY`dfYgYbhYX`]b`h\Y`Wcb`hY`hcZ`W`h`fU`mifY`Yj`Ubh]ggi`Yg`"5i`X]c!j`]gi`U`k`YV`VUgYX`a`Uq]f]U`]gi`gYX`Ug`Ub
]bhf`Xi`W]cb`h`c`j`cWUVi`Ufmž`[fUa`a`Uf`ghfi`W`h`fYg`UbX`W`h`fU`mifY`Yj`Ubh]td]Wg`"Hcd]Wg`a`Um]bW] XY
]bhY`fW`h`fU`Wca`a`i`b]WU]h]cbž`W`ffYbhYj`Ybhr`UbX`]ggi`Yg`]b`h\Y`GdUb]g\!gdYU_]b[`k`cf`X`"H\Y`a`YX]i`a`cZ
]bgfhi`W]cb`]b`GdUb]g\`"

7ci fgY`@YUfb]b[`Ci hWca Yg

%`9I`Ua`]bY`c`fU`UbX`k`f]hYb`hY`hg`]b`U`j`Uf]Y]micZa`YX]U`XYU`]b[`k`]h`Wcb`hYa`dcfUfmidfcV`Ya`g`h`U`h`UfY
fY`Yj`Ubh]t`h\Y`<]gdUb]Wk`cf`X`"
&`8`YV`U`h`c`b`dfYdUfYX`gi`V`Y`W`g`k`]h`U`XY[`fY`c`ZZi`YbW`h`UbX`gdc`b`h`UbY]m]b`GdUb]g\`"
'`" `DfcXi`W`WYUfž`XYHJ]YX`k`f]hYb`UbX`gdc`_`Yb`X]gW`gg]cbg`cb`U`k`]XY`fUb[Y`c`Zgi`V`Y`W`g`i`g]b[
Y`ZY`W]j`Y`[fUa`a`Uq]WU`XYj`]Wg`UbX`Uddfcdf]Uq]j`cWUVi`Ufm`
(`" `I`g`Y`gi`]hU`V`Y`Y`Ufb]b[`ghfU`h`[]Yg`h`c`Wcb]h]oi`U`m`Yb`UbW`UbX`Yi`dUbX`UW`ei`]fYX`g_]`g`"

HYUW]b[`GhfUH[]Yg`

H\]g`Wci fgY`]g`XYg][bYX`Zcf`gh`XYbhr`k`c`\Uj`Y`Z]b]g\YX`h`h`fa`YX]U`h`GdUb]g\`6`"H\Y`Wci fgY`gYY`g`h`c
W`r`h`a`l`h`e`]b`a`i`g`]Y`m]b]`s]b`S5`v`g`e`D`f`c`i`e`v`w`a`d`j`y`z`00`T`h`E`T]`h`j`E`T]`a`d`v`c`Y`w`o`i`f`d`
h\Y]f`ck`b`d`UW`ž`Z`c`k`]b[`h\Y]f`ck`b`]bhYfYgh`" `h]bW] XYg`]bhYfYgh]b[ž]bhYfi`W`h`fU`f` %o

5ggYgga Ybh

GYY'A ccXY'Zf'a cFY]bZfa Uhc'b"

5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
!WUgg'E i]n'	&)	k YY_)	'
C fU'	&\$	cb[c]b['k YY_' 'hc'k YY_ '%\$	&ž' ž (
F YUX]b[/ 'K f]h]b['HYgh	')	k YY_'	%ž' ž (
9!dcfhZ`c'	&\$	gYY'A ccXY	%ž' ž (



Gi Va]gg]cb 'cZ5ggYgga YbhiHUg_g

Hi fb]h]b 'Gi Va]gg]cb

Ʒmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b['hc'gi Va]hmc i f'Ugg][ba YbhiH'fci [\ 'Hi fb]h]bž'd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-',) " ' ' %cf'Ya U] 'H'Ya 'cb'YI HYfbU'HY'hgi ddcfh4 i bgk "YXi "Ui "'Gi ddcfh
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUfl" Ʒmci
UfY'i bUV'Y'hc'gi Va]hmc i f'Ugg][ba YbhiXi Y'hc'U'Zi 'hk]H'Hi fb]h]b'mci 'a UmUdd'm'Zc'f'Ub'YI HYbg]cbž'Vi hmc i
a i ghfYHU]b'mci f'h]W_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb['k]H'UbmcH'Yf'fY'Yj UbhXcW a Ybhtg'hc
]bWi XY'Ug'Yj]XYbVW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd'jW]h]cb" Ʒmci 'Ya U] '9I HYfbU'Gi ddcfhmc i 'k]
Ui 'ca UH]W]m'fYW]j Y'U'h]W_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY'mci 'k]'bYYX'hc'gdYW]Z]W]m'Ug_ 'Zc'f'cbY"
Hi fb]h]b 'U'gc'dfcj]XYg'i dXUH'g'cb'H'Y]f'gmgh'Ya 'ghU'hi g'cb'Hk]HYf"

; YbYfU'mž'UggYgga YbhiHUg_g'a i ghVY'gi Va]HYX'Y'YW'fcb]W]m'j]U'Y]H'Yf'Hi fb]h]b'cf'U'A ccX'Y
Ugg][ba YbH' 'b]bg]UbVW'g'k \YfY'H'g]g'bc]hdccg]V'Yž'hk]'VY'ghUH'X'cb'mci f'Wci fgY'g'A ccX'Y'g]H'k]H
U'HYfbUH] Y'gi Va]gg]cb 'XYHU]g"

: cf]bZ'fa UH]cb'cb'\ck 'hc'gi Va]hUgg][ba Ybhtg'cb]bY'j]U'A ccX'Y. \hhdg.#gh XYbhi bgk "YXi "Ui #ck!
gi Va]hUgg][ba Ybhta ccX'Y

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`_`Y`a` `U`b`m`
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f`]Y`g.

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]]hYg'Ug'U'gh XYbhUhl BGK
-

5 WUXYa]W**⊖**Zcfa Uh]cb