

ARTS3453

DfcZYgg]cbU`7 \]bYgY'6

GYa YghYf'Hk c`#`&\$%

GWXcc`cZ<i a Ub]hYg'UbX'@Ub[i U[Yg`#`I BGK `5ftg'UbX'GcWU`GwYbWg

7ci fgY`Cj Yfj]Yk

`GHUZZ7cbhUW`i8YHU]`g`

`7cbj Ybcfg`

B Ua Y	9a U]`	5j U]UV]`]m	@cW]h]cb	D\cbY
M]N\Yb[m]"n\Yb[' 4 i bgk "YXi "Ui	Hi YgXUmg`%' \$!&.' \$ da `cfVm Uddc]b]a Ybh	F &)' `A cfj Yb 6fck b`6i]X]b[- ' ,) `%' \$

`@W]i fYfg`

B Ua Y	9a U]`	5j U]UV]`]m	@cW]h]cb	D\cbY
M]N\Yb[m]"n\Yb[' 4 i bgk "YXi "Ui	Hi YgXUmg`%' \$!&.' \$ da `cfVm Uddc]b]a Ybh	F &)' `A cfj Yb 6fck b`6i]X]b[- ' ,) `%' \$

`Hi hcfg`

B Ua Y	9a U]`	5j U]UV]`]m	@cW]h]cb	D\cbY
M]b[`]Gi b	m]b[`]"gi b4 i bgk "YXi "Ui	H67	F &%%A cfj Yb 6fck b`6i]X]b[- ' ,) `\$(-'

GW]cc``7cbhUW]i`bZcfa U]h]cb

GW]cc``cZ<i a Ub]h]Yg`UbX`@Jb[i U[Yg

@cW]h]cb. `GW]cc``C Z]W]Z`A cfj Yb`6fck b`6i]X]b[`z@Yj Y``&z&),

CdYb]b[`<ci fg.`A cbXUm!`: f]XUmž`- Ua `!`) da

D\cbY. `Z`*%&`- ' ,) `%*, %

: Ul. `Z`*%&`- ' ,) `; , +\$)

9a U].`

5'7ci fgY'5i hcf]hma UmYI W gY'U'ghi XYbhZca 'WUggYg'cf'UWj] jhYg'Zcf'i d'hc'cbY'a cbh'"<ck Yj YfZ'hYm
a UmUgg][b'UXX]hcbU'UbX#cf'U'hYfbUhj Y'hUg_g'hc'Ybgi fY'Wca d']UbVW"'5'7ci fgY'5i hcf]hmVcbg]XYf]b['hY
[fUbh]b['cZUVgYbVW'a i ghVY'gUhgZ]YX'U'ghi XYbhk]''gh''VY'UV'Y'hc'a Y'h'hY'Wci fgY'g''YUfb]b['ci h'Wca Yg
UbX#cf] c'i a Y'cZ'YUfb]b["'5'ghi XYbhgYY_]b['Uddfcj U'hc'VY'UVgYbhZca cfY'h'Ub'cbY'a cbh'a i ghUdd'm
]b'k f]h]b['hc'hY'8YUb'UbX'dfcj]XY'U''cf][]bU'cf'W'fh]Z]YX'gi ddcfh]b['XcW'a Yb'U]h]cb"

: cf'a cfY']bZ'fa U]cb'UVci h'hY'U'hY'bxUbW'W'dfch'Wc'g'j'b'hY': UW'hmcZ5fng'UbX'GcW]U'
GWYbWg: [\hfdg.#k k k"Ufng"i bkg "YXi "Ui #W ffYbhghi XYbfg#UWUXYa \]W\]bZ'fa U\]cb#dfch'Wc'gl\[i \]XY'\]bYg#](#)

5 WUXYa]W]bZ'fa U]cb'

: cf'YggYbh]U'ghi XYbh]bZ'fa U]cb'fY'U]b['hc'f'Yei Ygfh'Zcf'YI h'bg]cb/fYj]Yk'icZa Uf_g/cVW dU]cbU''\YU'h
UbX'gUZ]m'YI Ua]bU]cb'dfc'W'Xi fYg/gdYW]U'Wcbg]XYfU]cb']b'hY'Yj Ybhcz]'bYgg'cf'a]gUXj Ybh fY/
ghi XYbhYei]m'UbX'X]gUV']m'UbX'ch'Yf'YggYbh]U'UWUXYa]W]bZ'fa U]cbz'
gYY: [\hfdg.#k k k"Ufng"i bkg "YXi "Ui #W ffYbhghi XYbfg#UWUXYa \]W\]bZ'fa U\]cb#dfch'Wc'gl\[i \]XY'\]bYg#](#)

7 ci fgY'8YHJ]`g

7 fYX]h'Dc]bHg`*`

Gi a a UfmcZh\Y'7 ci fgY

Gi V'YWh5fYU.'5Z[WèWE fgV[Wè

H\]g'Wèi fgY'dfcj]XYg'U'dfcZ'gg]cbU''Yj Y''dfc[fUa`]b'7 \]bYgY''Ub[i U[Y'UbX'W`h' fY'gh X]Yg''è]g

5ggYgga Ybh

5ggYgga YbhHUg_g`

5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
⊖!WUgg`hYgrg`	' \$!`	k YY_`+/k YY_`%	%ž ž{
C b`]bY`E i]n`	&\$!`	K YY_`' ž) ž+ž- ž%/%	%ž
6`c[`	&\$!`	6]!k YY_`m	%ž&ž ž{
; fci d`F YgYUfW`Dfc YWñ	' \$!`	k YY_`%&	

8YHU]g.; fci d'F YgYUfW'Dfc'YVh!' \$i 'b!WUgg'dfYgYbUhc'b'('a]bi hYg'dYf'dYfgcb'%) i žfYgYUfW'dUdYf
, \$\$!%&\$\$'WUfUWYfg'dYf'dYfgcb'%) i "Gh XYbhg'Zcfa '[fci dg'VUgYX'cb'gi [[YghX'hd]Mg'hUhUfY
YI hYbg]cbg'cZhY'hY' hY"H\YmfYgYUfW'UbX'X]gW'gg'hY'hd]Mg'hc[YhYfz'Vi hYUW'dfYgYbhg'hYb'k f]hYg'cb
cbY'dUfhcZhY]f'fYgYUfW": YYXVUW_j]U']bX]j]Xi U'Vta a Ybhg"H\]g']g'hY'ZbU'UggYgga YbhZcf
UhhYbXUbW' di fdcgYg"

Gi Va]gg]cb'cZ5ggYgga YbhHUg_g

Gh XYbHg'UfY'YI dYW'X'hc'di h'Y]f'bUa Yg'UbX'gh XYbhbi a VYfg'cb'Yj YfmdU[Y'cZ'Y]f'Ugg][ba Ybhg"

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

zmc i'YbWci bHYf'U'dfcV'Ya'k \Yb'UHYa dh]b['hc'gi Va]hmc i f'Ugg][ba Ybh'fci [\ 'Hi fb]h]bzd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-' ,) ' ' ' %cf'Ya U]'hYa 'cb' [YI HYfbU'HY'fgi ddcfh4 i bgk "YXi "Ui."](#) Gi ddcfh
\ci fg'UfY' , .\$\$Ua '-%\$. \$\$da 'cb'k YY_XUmg'UbX'-. \$\$Ua '-) . \$\$da 'cb'k YY_YbXg'f1 *) 'XUmg'U'mYUfL' zmc i
UfY'i bUV'Y'hc'gi Va]hmc i f'Ugg][ba YbhXi Y'hc'U'ZU' 'hk]h'Hi fb]h]b' mci 'a UmiUdd'm'Zcf'Ub'YI HYbg]cbz'Vi hmc i
a i ghfY]b' mci f'h]W_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb['k]h'Ubmc'hYf'fY'Yj UbhXcW a Ybhg'hc
]bW' XY'Ug'Yj]XYbW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd']W]h]cb" zmc i 'Ya U]'9I HYfbU'Gi ddcfhmc i 'k]`
Ui'hc'a U]W' m'fYW']j Y'U'h]W_Yhbi a VYfz'Vi h]Zmc i 'HY'Yd\cbY' mci 'k]`b'YX'hc'gdYW]W' m'Ug_'Zcf'cbY"
Hi fb]h]b'U'gc'dfcj]XYg'i dXUHY'g'cb'h'Y]f'gmghYa 'ghU'h'g'cb'Hk]HYf"

; YbYfU'mz'UggYgga YbhHUg_g'a i ghVY'gi Va]HYX'Y'YW'fcb]W'mj]U'Y]h'Yf'Hi fb]h]b'cf'U'A ccX'Y
Ugg][ba Ybh' b]bg]UbW'g'k \YfY'h']g']g'bchidcgg]V'YZ]hk]`VY'g'UHYX'cb' mci f'Wci fgY'g'A ccX'Y'g]HY'k]h
U'HYfbU]j Y'gi Va]gg]cb'XY]g"

@UH'5ggYgga YbhDYbU'h]Yg

Gh XYbHg'UfY'fYgdcbg]V'Y'Zcf'h'Y'gi Va]gg]cb'cZUggYgga YbhHUg_g'Vmi'h'Y'f'Yei]fYX'XUHY'g'UbX'h'a Yg"
8YdYbX]b['cZ'Y'YI HY'hcZXY'Um]b'h'Y'gi Va]gg]cb'cZUb'UggYgga YbhHUg_'dUgh'h'Y'Xi Y'XUHY'UbX'h'a Yz

- K cf_gi Va]hYX`%\$`hc`%-`XUmg`UZhf`h`Y`gh]di`UH`X`XYUX`]bY`k`j`VY`UggYggYX`UbX`ZYXVUW`dfcj`]XYX`Vi`hU`a`Uf`_`cZnYfc`k`j`VY`fYW`fYX`" `Z`h`Y`k`cf`_`k`ci`X`U`j`Y`fYW`]j`YX`U`dUgg`a`Uf`_`Vi`hZ`f`h`Y`U`h`b`Y`gg`UbX`h`Y`k`cf`_`]g`U`W`a`di`gc`fm`W`i`fg`Y`W`a`dcb`Y`bh`f`i`f`X`Y`f`Y`ei`]f`Y`a`Y`b`h`Z`U`g`h`i`XY`bh`k`]`VY`XY`Ya`YX`h`c`U`j`Y`a`Y`h`h`U`h`f`Y`ei`]f`Y`a`Y`bh`/`
- K cf_gi Va]hYX`&\$`cf`a`cf`Y`XUmg`UZhf`h`Y`gh]di`UH`X`XYUX`]bY`k`j`bch`VY`U`W`W`d`h`X`Z`f`UggYgga`Ybh`UbX`k`j`fYW`]j`Y`bc`ZYXVUW`z`a`Uf`_`cf`[`f`U`X`Y`" `Z`h`Y`UggYgga`Ybh`U`g`_`]g`U`W`a`di`gc`fm`W`a`dcb`Y`bh`c`Z`h`Y`W`i`fg`Y`U`g`h`i`XY`bh`k`]`f`Y`W`]j`Y`Ub`l`bg`U`h`g`Z`U`W`c`fm`: `U`]`f`l` : `E`[`f`U`X`Y`U`g`U`f`Y`gi`h`c`Z`i`bg`U`h`g`Z`U`W`c`fm`d`Y`f`Z`c`fa`Ub`V`W`]b`Ub`Y`gg`Y`bh`]U`W`a`dcb`Y`bh`c`Z`h`Y`W`i`fg`Y`"

H\]g`]bZ`c`fa`U`h`c`b`]g`U`g`c`U`j`U`]`\$

%o`fm

%o` %o`

%o`

5 WUXYa]W<c bYghmUbX 'D`U[]Uf]ga

D`U[]Uf]ga]g`i g]b['hY`k cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b['hYa`Ug`mci f`ck b" #WUb`hU`Y`a Ubm
Zcfa gZ`Zca`XY`]VYfUHy`WXYU]b['hc`UWV]XYbU`mW`dm]b[`Zca`U`gci fW`k]hCi hUW_bck`YX[Ya`Ybh`

I BGK`[fci dg`d`U[]Uf]ga`]bhc`hY`Zc`ck]b[`WUHy`[cf]Yg.

7cdm]b[.`i`g]b['hY`gUa`Y`cf`j`Yfmg]a`]Uf`k`cfXg`hc`hY`cf][]bU`hY`hcf`]XYU`k`]hCi hUW_bck`YX[]b['hY`
gci fW`cf`i`g]b[`ei`chU]cb`a`Uf`g`"H`]g`U`gc`Udd`]Yg`hc`]a`U[YgZ`UfhUbX`XYg][`b`dfc`YWgZ`Ug`k`Y`"Ug`
dfYgYbhU]cbg`k`YfY`gca`YcbY`dfYgYbh]b[`Ubc`hY`f`g`]XYUg`cf`k`cfXg`k`]hCi hWYX]h`

#Uddfcdf]UHy`dUfUd`fUg]b[.`W`Ub[]b[`U`Zy`k`cfXg`UbX`d`fUgYg`k`Y`a`cghm`fYU]b]b['hY`cf][]bU`
g]fi`W`fY`UbX`]bZcfa`U]cb`k`]hCi hUW_bck`YX[Ya`Ybh`"H`]g`U`gc`Udd`]Yg`]b`dfYgYbhU]cbg`k`YfY`gca`YcbY`
dUfUd`fUgYg`Ubc`hY`f`g`]XYUg`cf`k`cfXg`k`]hCi hWYX]h` #U`gc`Udd`]Yg`hc`d`]YW]b[`hc`[Y`hY`f`ei`chYg`UbX`
dUfUd`fUgYg`]bhc`U`bYk`k`c`Y`Z`k`]hCi hfY`ZYfYbW]b[`UbX`U`gh`XYbh`g`ck`b`UbU`mg]g`hc`Vf]b['hY`a`U`hY`f]U`
hc`[Y`hY`f`"

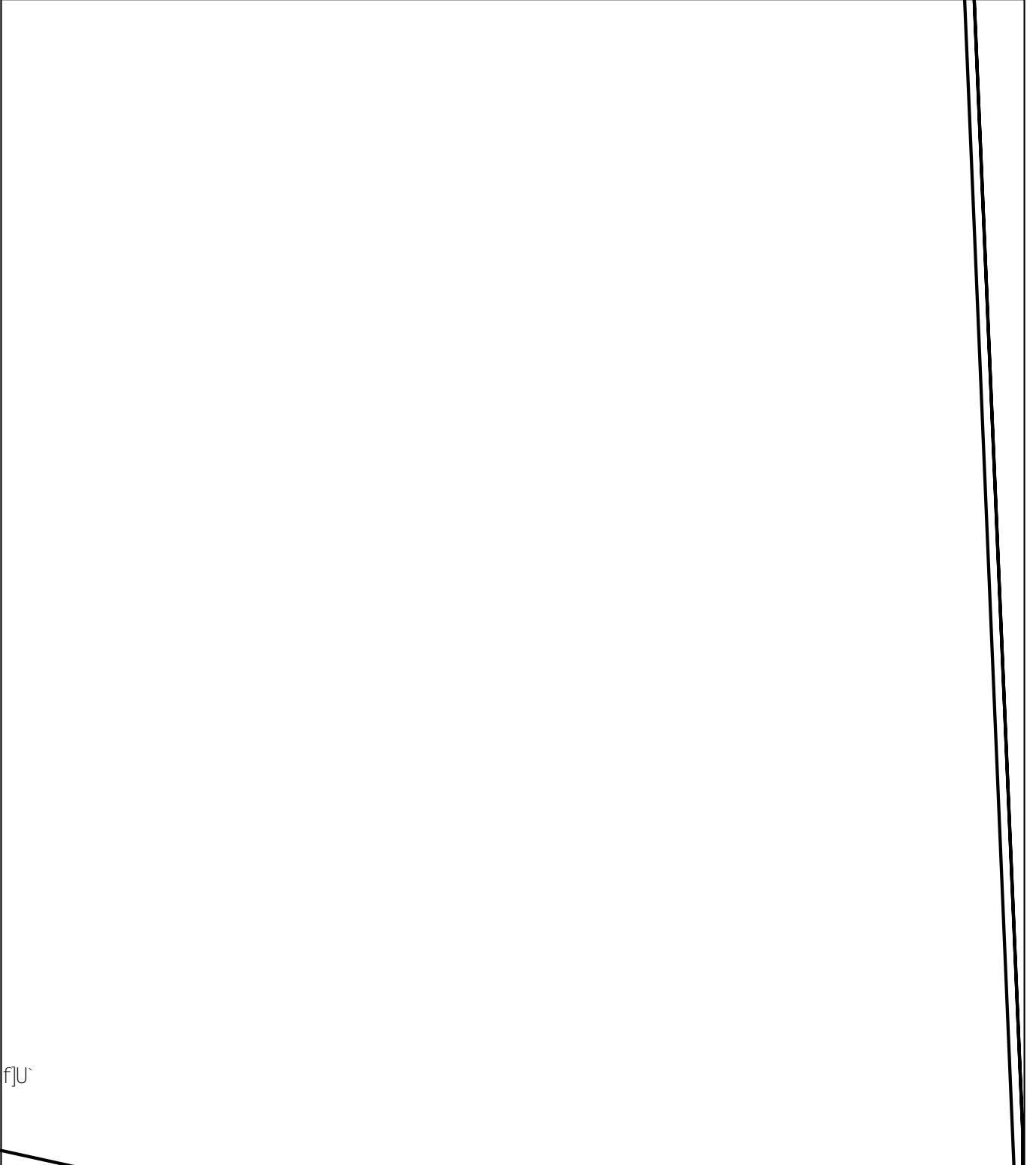
7c`i`g]cb.`k`cf_]b[`k`]h`chYfg`Vi`hdUgg]b[`cZ`hY`k`cf_]Ug`U`dYfgcb`g`]bX]j`Xi`U`k`cf_]7c`i`g]cb`U`gc`
]bWi`XYg`dfcj`X]b[`mci`f`k`cf_]hc`Ubc`hY`f`gh`XYbhVY`Zc`fY`hY`Xi`Y`XU`hY`Zc`f`Zc`f`hY`di`fdcgY`cZ`hY`a`
d`U[]Uf]g]b[`Uh`Ubmi]a`Y`Z`dUm]b[`Ubc`hY`f`dYfgcb`hc`dYf`Zc`fa`Ub`UWUXYa`]W]Ug`_`Z`ghYU`]b[`cf`UW`ei`]f]b[
Ubc`hY`f`dYfgcb`g`UWUXYa`]Wk`cf_]UbX`W`dm]b[`]Z`c`ZYf]b[`hc`W`ca`d`Y`hY`Ubc`hY`f`dYfgcb`g`k`cf_]cf`gYY_]b[
dUma`YbhZc`f`W`ca`d`Y]b[`UWUXYa`]Wk`cf_]`

#Uddfcdf]UHy`W]U]cb.`7`]h]b[`gci`fW`g`k`]W`U`j`Y`bchVYYb`fYUX`Z`k`]hCi hUW_bck`YX[]b['hY`"gYW`bXUfm`
gci`fW`Zca`k`]W`_bck`YX[Y`cZ`hY`a`U`g`VYYb`cVU]bYX`"

8i`d`]WU]cb`fYg`Z`d`U[]Uf]ga`"E`gi`Va`]h]b[`mci`f`ck`b`k`cf_]b`k`c`Y`cf`]b`dUf`Z`k`YfY`]h`Ug`dYfj`]ci`g`m`
VYYb`dfYdUfYX`cf`gi`Va`]hY`X`Zc`f`Ubc`hY`f`UggY`gga`Ybhcf`W`ei`fgY`U`hI`BGK`cf`Ubc`hY`f`i`b]j`Yfg]m`"

7c`ffY`W`fY`ZYfYbW]b[`dfUW]W]g.

- VYh'f'a UbU[Y'mci f'hja Y



Hi hcf]U'

Hi hcf]U'		

Hi hcf]U'

K YY_%&.%) 'C VtcVYf!	@YWhi fy	; fci d'F YgYUfWX 'Dfc 'YWhg. 'DfYdUfUjcbg
&%:C VtcVYf	Hi hcf]U'	; fci d'F YgYUfWX 'Dfc 'YWhg 'dfYgYbhUjcb'UbX X]gW ggg]cb
K YY_% . '&&'C VtcVYf! &, 'C VtcVYf	Hi hcf]U'	HYgh&

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

HfI Hcc_8YH]`g
5`fYUX]b[`a UHf]U`g`k]`VY`Uj`U]UV`Y`Zcf`Xck`b`cUX`cb`hY`7`ci`fgY`A`ccX`Y"

F YWca a YbXYX`F Ygci fWg

5XX]h]cbU`F YUX]b[`g
5XX]h]cbU`F YUX]b[`g`W]b`U`gc`VY`Zci`bX`cb`hY`7`ci`fgY`A`ccX`Y"
K YVg]hYg
<ul style="list-style-type: none">F YZYfYbW]b[`grg]h`a`g <p>\hd.##k k "Wi bgk "YXi "Ui #c b`V#fYZ`ha`</p>

GmbYf[]Yg`b`Gci bX`&\$%*`

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7cXY.`\$\$\$- ;