

ARTS3462

5fh]gh]WFYdfYgYbhUh]cbg`cZ7\]bU`UbX`h\Y`8]UgdcfU

HYfa 'C bY''##'&\$&%

7 ci fgY⁻Cj Yfj]Yk

GHJZZ7cbHJWh78YHJ]`g

7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
K U∖'; i Ub'@]a	k [`]a 4 i bgk "YXi "Ui	VmUddc]bha Ybhcb`m	A 6 &()	- ' ,) `%* , %

GWX.cc``7cbHJWhi=bZcfaUhjcb

GWkcc``cZ<iaUb]h]Yg'UbX'@Ub[iU[Yg

@cWUHjcb. `GW&cc``CZjWYžA cfjYb`6fckb`6i]`X]b[ž@YjY``&ž&),

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

D\cbY. Ž*%&'-',) %*, %

: UI . 'Ž*%'&'-' ,) ', +\$)

9a U]`. <u>\U`4_i bgk "YXi "Ui_</u>

7ci fgY[·]8YHJ]`g

7 fYX]hDc]bhg***

Gi a a UfmcZhXY7ci fgY

 $H \ Y \ Wci \ fg Y \]g \ a \ U]b \ mHUi \ [\ h]b \ 7 \]b \ Yg \ Y''$

7cifgY`@YUfb]b[`CihWcaYg

- % 7 ca dUfY`X]ZZYfYbh`]hYfUfmUbX`Ufh]gh]WhfUX]h]cbg`h\Uh\Uj Y`XYj Y`cdYX`]bXYdYbXYbhm`]b`j Uf]ci g `cWJ`Yg`UWfcgg`h\Y`7\]bYgY!gdYU_]b[`k cf`X"`
- &" 7 cbghłi WiU'W/jhjWU`Z/Ua Yk cf_'hc'h\ci [\hz]``mX]gW gg'h\Y`]ggi Y`cZ7\]bUfgŁ'UbX`7\]bYgYbYgg"
- ' " =XYbhJZmh,Y'XJZYfYbWYg']b'[YbfYg'fZJWJcbžXfUa UžWjbYa UŁUbX'bi UbWYX'j UfJUHJcbg'fI]b[i]gHJWZ gcWJc!\]ghcfJWU'z'dc`]HJWU'Ł']b'UfHJghJWdfcXi WJcbg"
- ("FYgdcbX'fYgdYWZ ``mfk f]htyb'UbX'j YfVU`Ł']b'dfcXi Wfj Y'UWUXYa]WX]gW gg]cb"'

HYUWX]b[GhfUhY[]Yg

7 `Ugg`XY`]j Yfmk]``]bWi XY`ZJWY!hc!ZJWY`UbX`cb`]bY`UWf]j]h]Yg"`Nci `k]``Yb[U[Y`]b`WcgY`fYUX]b[`UbX`j]Yk]b[cZgY`YWik cf_g`cZZ]Wf]cbžXfUa U`UbX`W]bYa U`hc`YI Ua]bY`]ggi Yg`cZfYdfYgYbfUh]cb`UbX`fYdfYgYbfUV]`]mž]XYbh]hmUbX`W``hi fU``dc`]h]Wgž`cb[]b[`UbX`VY`cb[]b[žUWfcgg`h\Y`7\]bYgY!gdYU_]b[`k cfX"`H\YgY`_YmhYI hg k]``VY`gY`YWfYX`k]h\`Ub`YmY`hck UfX`h\Y`Wca d`YI `fY`Uh]cbg\]dg`VYfk YYb`h\YgY`X]Ugdcf]Wg]hYg`UbX a U]b`UbX`7\]bU"`C b`hcd`cZh\YgY`df]a Ufmgci fWfgžX]gW gg]cb`]b`YUW\`k YY_`k]``VY`gi dd`Ya YbhYX`Vm gYWcbXUfmhYI hg`h\UhX]gW gg`W``hi fU``h\Ycfmž'dc`]h]Wg`cZ`Ub[i U[Y`UbX`]XYbh]mih\Uh\Uj Y`VYYb`[U]b]b[]bWfYUg]b[`]a dcffUbWf`]b`UWUXYa]WX]gWci fgY`cZ`Uh/"'

5ggYgga Ybh

H\Y`i gY`cZY`YWfcb]WXYj]Wfg`flUdhcdgža cV]`Y`d\cbYgž`]!dUXgždU[Yfgž`YhW'k`]g`dfc\]V]hYX`]b`WUgg"

5ggYgga YbhHUg_g

5ggYgga Ybh'HJg_	K K][Y][h.t	i 8iY'8UhY	Gh GAYIXY®AN®Y]bbf [b]b[CihMcaYg [:] 5ggYggYX
A ccX`Y`8]gW gg]cb`	(\$1		

VXUfUWYfg`]b`h\Y`Z]`a`kY`UfY`fYUX]b[žUbX`VY[]b`U`X]gWgg]cb`Zfca`h\Y`WXUfUWYf'g`dc]bhcZh\Y`j]Yk`h\Ym UfY`UXcdh]b[`YhW

9UWX 'gh XYbh']g'fYei]fYX'hc'gi Va]h('A ccX'Y'Dcghg'UbX'UWhUg'U'8]gW gg]cb'@YUXYf'Uh`YUghcbWY"`'Nci a Umbchigi Va]hU'A ccX'Y'Dcghcb'h\Y'k YY_'mci 'UfY'UWh]b['Ug'8]gW gg]cb'@YUXYf"

Hi fb]h]b gYh]b[. H\]g]g bchU Hi fb]h]b Ugg][ba Ybh

5ggYgga Ybh& 9ggUmDfYdUfUh]cb

8YHJ]`g.

Dfcj]XY`U`) \$\$!k cfX`YggUmci h]bY`UbX`V]V`]c[fUd\mk]h\`bc``Ygg`h\Ub`%\$`]hYa gž`]bWi X]b[`Uh`YUgh' `Vcc_g cb`mci f`YggUmhcd]W3+bX]j]Xi U``k f]hYb`ZYYXVUV_idfcj]XYX`VYZcfY`Z]bU``YggUm''

Hi fb]h]b gYh]b[. H\]g]g bchU Hi fb]h]b Ugg][ba Ybh

5ggYgga Ybh' . '9ggUm

8YHJ]`g.

K f]hY`U`fYgYUfWX`YggUmcb`U`WXcgYb`hcd]WcZUddfcl]a UhY`m&ž\$\$\$`k cfXg"3`=bX]j]Xi U``ZYYXVUW_`dfcj]XYX"

Hi fb]h]b'gYh]b[.`H\]g'Ugg][ba Ybh]g'gi Va]hYX'h\fci [\`Hi fb]h]b'UbX'ghi XYbhg'Xc'bchgYY'Hi fb]h]b g]a]`Uf]hmifYdcfhg"

5 HYbXUbWYFYei]fYaYbhg

5HYbXUbWY cZgYa]bUfg`]g`a UbXUhcfmi]b`h`]g`Wci fgY"`5HYbXUbWY k]``VY`HU_Yb`Uhh`Y`VY[]bb]b[`cZYUWX WUgg"``Hi fb]b[`i d`hc`WUgg`a cfY`h`Ub`)`a]bi hYg``UhY`]g`Wcbg]XYfYX`Ub`i bYI W gYX`UVgYbWY"``I bYI W gYX UVgYbWY Zca`a cfY`h`Ub`%\$L`cZgYa]bUfg`k]``fYgi `h`]b`h`Y`Uk UfX`U`ZU]``[fUXY"``6YWUi gY`h`]g`]g U`gYa]bUfž`mci `UfY`YI dYWYX`hc`UW**i**] Y`mYb[U[Y`k]h`WcfY`Wci fgY`WcbhYbhž`dUfh]W]dUhY`]b`WUgg X]gW gg]cb`Vm`]ghYb]b[`UHhYbh]j Y`mUbX`fYgdcbX]b[`fYgdYWZ ``mhc`mci f`WUgga UhYg"``H\YgY`k]``YbUV`Y mci `hc`UhHU]b.

- % 7 ca dUfY`X]ZZYfYbh`]hYfUfmUbX`Ufh]gh]WhfUX]h]cbg`h\Uh\Uj Y`XYj Y`cdYX`]bXYdYbXYbhm]b`j Uf]ci g `cWU`Yg`UWfcgg`h\Y`7 \]bYgY!gdYU_]b[`k cf`X"
- & 7 cbghĩ WiU WJhWU Zlua YK cf_hc hc i [\hz] `mX]gW gg h\Y]ggi Y cZ7 \]bUfgŁUbX 7 \]bYgYbYgg"
- " =XYbhjZmih,Y'X]ZYfYbWfg']b'[YbfYg'fZ]Wf]cbžXfUa UžWjbYa UŁUbX'bi UbWfX'j Uf]Uh]cbg'f1]b[i]gh]Wz gcW]c!\]ghcf]WU'z'dc`]h]WU'Ł']b'Ufh]gh]WdfcXi Wf]cbg"
- ("FYgdcbX'fYgdYWMZ``mfkf]hhyb'UbX'jYfVU`Ł']b'dfcXiWMjjY'UWUXYa]WX]gWigg]cb"

7 ci fgY GWX YXi `Y

<u>J]Yk WUgg Ha YHUV Y</u>

H]a YHJV`Y'

8 UHY	HmdY	7 cbhYbh	
K YY_`%`%) : YVfi Ufm!`% : YVfi Ufm	GYa]bUf	7 ci fgY`=bHfcXi ₩jcb	
K_YY_`&.`&&`: YVfi Ufm!`&* : YVfi Ufm	GYa]bUf FYa Ya VYf]b['UbX': cf[YH]b[
		:]WMjcb.`@ji`L]bki` "`"H\Y`7`Ugg`7cibgY``cf" `f1&++Ł	
		:]WMjcb.`@i`L]b\iU` "`"GWUf"` `f%-+,Ł	
		D`Um`G\U`MYI]b`ž@]`G\ciWXYb[``UbX MUc`A]b[XY`""K\Uh]Z=FYU``mKYfY3" `f%-+-Ł	
K_YY_'' . '%'A_UfWX '! ')	GYa]bUf	<]ghcff]WU``5abYg]U`	
A UfvX		D`Um`; Uc`L]b[']Ub` "`"H\Y`6ig!Ghcd"` f%;,'Ł	
		:]`a\$‰fZW:WSfaXfZWEg`	
1			

		:]`a.`9aaV?Wł9aaVI a_W```fK]f''' <ci <g]uc!\g]yb`ž'%-)ł< th=""></g]uc!\g]yb`ž'%-)ł<></ci
K YY_`).`%)`A UfWX`!`%- A UfWX	GYa]bUf	GcWJYHJ`fB]gŁCfXYf
		D`Um`?ic`DUc`?ib` "` " H\Y`7cZ]b`]g`Hcc`6][Zcf`h\Y` <c`y" f%-, (Ł</c`y
		D`Um`?ic`DUc`?ib` "`"Bc`DUf_]b[`cb`CXX 8Umg"` `f‰,*Ł
		:]`a.`3.4d[YZfWdEgWd6Sk fX]f"`9XkUfX`MUb[`ž%%Ł
		9ggUmDfYdUfUh]cb`f1%\$⊫ ŁXiY`Uhih∖Y`YbX`cZh∖Y k YY_ž: f]XUm% `A UfW\`&\$&%ž`)DA
K_YY_`*.`&&`A_UfWX`!`&* A_UfWX	FYUX]b[AUbXUhcfmi: `YI]`KYY_`!`Bc`WUgg
K_YY_`+.`&-`A_UfWX`!`& 5df]`	GYa]bUf	-¥Ybh]hm
		D`Um`; Uc`L]b[]Ub` """H\Y`Ch\Yf`G\cfY"" f%,*Ł
		:]`a . E a` Y aXfZW7j [′W
K YY_`, .`) '5df]`'!'- '5df]`	GYa]bUf	8]gd`UV¥a Ybh
		:]`a . `H[hW>3_agd` fK]f"`HgU]`A]b[!`]Ub[ž`%-(Ł
		D`Um`?ic`DUc`?ib` "` " 8YgW¥bXUbhg

FYgci fWg

DfYgWf]VYX F Ygci fWyg

5^{°°}fYei]fYX fYUX]b[g'UbX'j]Yk]b['a UhYf]U'g'fZ]'a g'UbX#cf'd`UmgE'UfY 'Uj U]`UV`Y'j]U`A ccX`Y"``Ghi XYbhg'UfY YI dYWYX hc. %E`\Uj Y`Wca d`YhYX h\Y'fYUX]b['UbX'j]Yk]b['cZU```a UhYf]U``Zcf'h\Y'k YY_`VYZcfY`Wca]b['hc WUggž'UbX`&E`Vf]b[`\UfX`Wcd]Yg'cZh\Y'fYUX]b['a UhYf]U`g'hc`WUgg"``6YWUi gY`mci `UfY`bchYI dYWYX hc di fW\UgY`Ubm'hYI hg`Zcf'h\]g'Wci fgYž'UbX'g]bWY'h\Y`i gY`cZU```Y`YWfcb]WXYj]WYg`]g'dfc\]V]h'X`]b`WUggž'mci a i ghdf]bh\UfX`Wcd]Yg'cZmci f'fYUX]b[g'UbX`Yf]b['h\Ya 'hc`WUgg'Zcf'ci f'gYa]bUf`X]gW gg]cb"

FYWca a YbXYX⁻FYgci fWYg

Ghi XYbhgʻa][\hZ]bX`h\Y`Zc``ck]b[`cb`]bY`fYgci fWY`i gYZ ``Zcf`Vcbghfi Whjb[`h\Y`V]V`]c[fUd\mZcf`mci f fYgYUfV\YggUm

<u>\hdg.## "cgi "YXi #a WW#/]V`]c[fUd\]Yg#</u>

7 ci fgY 9j U`i Uh]cb UbX 8Yj Y`cda Ybh

H\]g`]g`U`bYk `WcifgY"``Bc`gh XYbhZYYXVUW_`YI]ghYX`]b`h\Y`kf]h]b[`cZh\]g`WcifgY"`

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UhYa dhjb['hc'gi Va]hmci f'Ugg][ba YbhN fci [\ 'Hi fb]hjbžd'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'mYUfŁ'' Zmci UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi `hk]h\'Hi fb]hjb'mci 'a UmUdd`mZcf'Ub'YI hYbg]cbžVi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU'`Gi ddcfhfU'cb['k]h\ 'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁhc]bWi XY'Ug'Yj]XYbWY hc'gi ddcfhmci f'YI hYbg]cb'Udd`]WUh]cb'' Zmci 'Ya U]`'9I hYfbU'`Gi ddcfhimci 'k]`` Ui hca UhjWU'`mfYWY]j Y'U'hjW_Yhbi a VYfžVi h]Zmci 'hY`Yd\cbY'mci 'k]``bYYX'hc'gdYWJZWU``mUg_'Zcf'cbY" Hi fb]hjb'U`gc'dfcj]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUh'g'cb'Hk]hYf"

; YbYfU``mž'UggYgga YbhHUg_g`a i ghVY`gi Va]HYX`Y`YWfcb]WU``mj]U`Y]H\Yf`Hi fb]h]b`cf`U`A ccX`Y Ugg][ba YbH'`=b`]bgHUbWfg`k \YfY`H\]g`]g`bchdcgg]V`Yž`]hk]```VY`gHUHYX`cb`mci f`Wci fgY**'**g`A ccX`Y`g]HY`k]H\ U`HYfbUh]j Y`gi Va]gg]cb`XYHU]`g"

: cf`]bZcfa Uh]cb`cb`\ck `hc`gi Va]hUgg][ba Ybhg`cb`]bY`j]U`A ccX`Y.`\hhdg.##gh XYbh'i bgk "YXi "Ui #\ck! gi Va]hUgg][ba Ybha ccX`Y

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

D`U[]Uf]ga `]g`i g]b['H\Y`k cfXg`cf`]XYUg`cZcH\Yfg`UbX`dfYgYbH]b['H\Ya `Ug`mci f`ck b"`=h\Wb`HU_Y`a Ubm Zcfa gžZīca `XY`]VYfUHY`W\YUH]b['hc`UWV]XYbHU``mWcdm]b['Zīca `U`gci fW'`k]H\ci hUW_bck `YX[Ya YbH'

I BGK '[fci dg'd`U[]Uf]ga ']bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

i bXYfgHUbX*mci f*f][\hg*UbX*fYgdcbg]V]`]h]Yg*Ug*U*gh XYbhUhI BGK

5WUXYa]W=bZcfaUh]cb

: cf^{*}YggYbhJU^{**}gh XYbh^{*}]bZcfa UhJcb^{*}fY^{*}UhJb[^{**}hc.

- fYei YghgʻZcf`Yl hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk cZa Uf_g/
- I BGK '<YU`h`UbX'GUZYImidc`]WjYg/
- YI Ua]bUh]cb'dfcWfXi fYg/
- gdYWJU``Wcbg]XYfUH]cb`]b`H\Y`Yj YbhcZ]``bYgg`cf`a]gUXj YbH fY/
- gh XYbhYei]hmUbX`X]gUV]`]hm/
- UbX'ch\Yf'YggYbhJU``UWUXYa JWJbZcfa UhJcbž'gYY