



# ARTS1690

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		cfVmUddc]bha Ybh		

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## 5hYbXUbW`F Yei ]fYa Ybhg

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5`gh XYbhk`c`Uff]j Yg`a cfY`h`Ub`%)`a ]bi`hYg`U`h`a UmVY`dYbU`]gYX`Zcf`bcb!U`hYbXUbW`"Zgi`W`U`dYbU`m`]g`ja dcgYXž`hY`gh XYbhia i ghVY`]bZcfa YX`j YfVU`m`Uh`hY`YbX`cZUWgg`UbX`UXj ]gYX`]b`k`f]h]b[ `k`]h]b`&(`\ci fg"

ZU`gh XYbhYI dYf]YbW`g`]`bYggž`a ]gUXj Ybh fy`cf`chYf`cW`ffYbW`h`Uha U`Yg`UVgYbW`Zca`U`WUgg#UW]j ]mi bUj c]XUV`Yžcf`YI dYW`g`hc`VY`UVgYbhZca`U`Zcf`h`W`ca ]b[ `WUgg#UW]j ]mž`h`Ymg`ci`X`gYY`dYfa ]gg]cb`Zca`h`Y`7`ci fgY`5i`h`cf]mž`UbX`k`YfY`Udd`]WU`Yž`h`Y]f`fYei Yghg`ci`X`VY`UW`ca`dUb]YX`VmUb`cf][`]bU`cf`W`f]jYX`W`dmcZU`a YX]W`W`f]jZUW`h`cf`chYf`Zca`cZUddfcdf]U`h`Yj ]XYbW"

5`7ci fgY`5i`h`cf]ma UmYI W`gY`U`gh XYbhZca`WUggYg`cf`UW]j ]hYg`Zcf`i`d`hc`cbY`a`cbh`<ck`Yj`Yfž`h`Ym`a`UmUgg][`b`UXX]h]cbU`UbX`#f`U`h`fbUh] Y`hUg`g`hc`Ybgi`fY`W`ca`d`]UbW`"5`7ci fgY`5i`h`cf]mW`bg]XYf]b[ `h`Y`[`fUbh]b[ `cZUVgYbW`a`i`ghVY`gUh]gZ]YX`U`gh XYbhk ]`g]`VY`UV`Y`hc`a`YYh`h`Y`W`ci fgY`g`YUfb]b[ `ci`h`W`a`Yg`UbX`#f`j`ci`a`Y`cZ`YUfb]b[ "5`gh XYbhgYY\_]b[ `Uddfcj`U`hc`VY`UVgYbhZcf`a`cfY`h`Ub`cbY`a`cbh`a`i`ghUdd`m`]b`k`f]h]b[ `hc`h`Y`8Y`Ub`UbX`dfcj ]Y`U`cf][`]bU`cf`W`f]jYX`gi`ddcf]b[ `XcW`a`Yb]h]cb"

: cf`a`cfY`]bZcfa Uh]cb`UVci`h`h`Y`U`hYbXUbW`dfch`W`g`]b`h`Y` : UW`hmcZ5f]g`UbX`GcV]U`GWYbW`g. [\hfdg.##k`k`"Uf\]g`i`bkg`"YXi`"Ui`#W`ffYbh\]gh`XYbhg#UW\]Y`a`\]W\]bZcfa`Uh\]cb`#f\]ch`W`g!`\[`i`\]XY`\]bYg#](#)

## 5WUXYa ]W`bZcfa Uh]cb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[ `hc. `fYei Yghg`Zcf`YI hYbg]cb/fYj ]Yk `cZa Uf\_g/cVW dUh]cbU`\\YU`h  
UbX`gUZ`m/YI Ua ]bUh]cb`dfcW`Xi fYg/gdYW]U`Wcbg]XYfUh]cb`]b`h`Y`Yj Ybhcz]`bYgg`cf`a ]gUXj Ybh fY/  
ghi XYbhYei ]mUbX`X]gUV]`]m`UbX`ch`Yf`YggYbh]U`UWXYa ]W]bZcfa Uh]cbž  
gYY`\fdg.#k k"Ufdg"i bkg "YXi "Ui #W ffYbh]ghi XYbhg#JWUXYa ]W]bZcfa Uh]cb#dfcW`gl`i ]XY`]bYg#

7 ci fgY'8YHJ]`g

7 fYX]hDc]bng`\*`

Gi a a UfmicZ\hY'7 ci fgY

Gi V'YW\i5fYU.'>[ Yg[ef[Ue

H\]g'Wci fgY'jg'Ub'jbfccXi W\cb'hc''b[ i ]gh]Wg'f\hY'gWYbh]ZWghi XmicZ`Ub[ i U[ YL'UbX'ZcW'gYg'cb'hY  
fUX]hcbU'WcfY'UfYUg'cZ`Ub[ i U[ Y'ghfi W\i fY'j]bWi X]b[ . 'hY'gci bX'gmghYa'fd\cbYh]Wg'UbX'd\cbc`c[ mŁ  
a cfd\c`c[ mfk cfX'ghfi W\i fYŁ'gmbhU'fWUi gY'UbX'gYbhYbW'ghfi W\i fYŁ'UbX'a YUb]b[ 'fgYa Ubh]Wg'UbX  
dfU[ a Uh]Wg'Ł'Mci 'k ]''\Uj Y'hY'cddcfh b]mhc'k cf\_'k ]h''b[ i ]gh]WXUhU'Zfca'9b[ 'jg\`UbX'U'k ]XY'fUb[ Y'cZ  
X]ZYfYbh'Ub[ i U[ Yg''Mci 'k ]''YUfb'hc'UbU'mgY''Ub[ i U[ Y'i g]b[ 'Uddfcdf]Uh''b[ i ]gh]WWbW'dhg'UbX  
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5 h\hY'WcbWi g]cb'cZ\h]g'Wci fgY'hY'ghi XYbhk ]''VY'UV'Y'hc

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7`Ugg`hYgh=	' \$i	H\Y`hYgh]g [ ]j Yb`Xi fb[ `h\Y h hcf]U`hja Yg`]b`K YY_`%%`f%* A Um`%+`A Unt	%ž(
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8YHU]`g. `( \$`a ]bi hY`hYghWcj Yf]b[ `h\Y`WcbhYbhcZ`YWi fYg`UbX`h hcf]U`g" Mci `k ]`  
fYW]j Y`]bX]j ]Xi U`ZYXVUW`"

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5ggYgga Ybh' .`HU\_Y!\ca Y`dfcV`Ya `gYh

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

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≠mci`YbWci bhYf`U`dfcV`Ya`k`Yb`U`h`Ya`dh]b[`hc`gi Va ]hmcif`Ugg][ ba Ybh`h`fci [ `h`Hi`fb]h]b`z`d`YUgY  
h`Y`d`cb`Y`9I`h`fb`U`Gi`ddcfh`cb`-`,`)`''`'`%cf`Ya`U]`h`Ya`cb`[YI`h`fb`U`h`h`gi`ddcfh`i`bgk`"YXi`"Ui`"Gi`ddcfh](#)

f`G][ b]Z]WbhmUZZYWhmci f`dYfZcfa UbWV`]b`UggYggUV`Y`k cf\_žVY`]hU`Zcfa U`YbX!cZgYa YghYf`YI Ua ]bUh]cbžU  
WUgg`hYghž`U`UVcfUhc fmi`hYghž`U`gYa ]bUf`dfYgYbUh]cb`cf`Ubmich`Yf`Zcfa`cZUggYgga`YbH`

: cf`Z`f`h`Yf`XYhU]`g`]b`fY`Uh]cb`hc`GdYWU`7`cbg]XYfUh]cb`]bWi`X]b[``K`Yb`hc`5dd`mž`<`ck`hc`5dd`m`UbX  
`Gi`ddcfh]b[`8`cW`a`YbUh]cb`d`YUgY`fYZYf`hc`h`Y`GdYWU`7`cbg]XYfUh]cb`k`YVgh]Y.`

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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`cghmfYU]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`dYfZcfa`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`fYUXZ`k ]hCi hUW\_bck`YX[ ]b[ 'hY`"gYW`bXUfm`  
gci`fW`Zca`k \]W`\_bck`YX[ Y`cZ`hY`a` \Ug`VYYb`cV]U]bYX`"

8i`d`]WU]cb`ffgY`Zd`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`dfYj`]ci`g`m`  
VYYb`dfYdUfYX`cf`gi`Va`]hY`X`Zc`f`Ubc`hY`f`UggY`gga`Ybhcf`W`ei`fgY`Uhi`BGK`cf`Ubc`hY`fi`b]j`Yfg]m`"

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



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

7 ci fgY`GWXYXi `Y

[J.Jyk`WUgg`ha`YhUV`Y](#)

H]a`YhUV`Y`

8UhY	HmdY	7cbhYbh
K YY_`%`&`*`:` YVfi Ufm!`(` A UfVX	@YWi`fY	<p>hfcXi`W]cb</p> <p>;` fdaVgU[` Y fZWLagdeW` ↑ Yg[ef[U]` ai` ^WYW` S` YgSYWg` [hWdeS`e-` S` [ S^` S` YgSYWde</p> <p>F YUX]b[</p> <p>5 ZSbfWd`#</p>
K YY_`&.`)` `A UfVX`!`%`%` A UfVX	@YWi`fY	<p>A cfd`\\c`c[ mfdUfh`±</p> <p>4Se[U_`adbZa`aY[US^`Ua` UWbfe-` dg` Me` aXi` adv` Xd_` Sfa`</p> <p>F YUX]b[</p> <p>5 ZSbfWd`%</p>
	Hi`hcf]U`	<p>7`\\UdhYf`%`K` \\Uh]g`@Ub[ i` U[ Y3</p> <p>9I`YfW]gY`%`?` bck` `YX[ Y`cZgci` bX`gYei` YbW]g</p> <p>9I`YfW]gY`&amp;`:` fUa` a` Uh]W]`]mi`↑` X[ a` Yb]g</p> <p>9I`YfW]gY`"`. `C`bca` UhcdcY]Wk` cfXg</p> <p>9I`YfW]gY`(`.`G][` bg`UbX`Wta` a` i` b]W]h]cb</p> <p>f9I`YfW]gYg`UfY`Zfca` `h`Y`hYI` hVcc_`"8`YhU]`YX` ]bghfi` W]cb` Zcf`YUWX` k` YY`fg`hi` hcf]U``hUg_gz` UW]hj` ]h]Yg`UbX`YI` dYWU]h]cb`k` ]`VY`Uj` U]`UV`Y`cb` A`ccX`Y`"Mci` `a` i` ghWcbgi` `hA`ccX`Y`fY[ i` `Uf`mZcf` i` dXUHygE`"</p>
K YY_`"`. `%`&`A UfVX`!`%` A UfVX	@YWi`fY	<p>A cfd`\\c`c[ mfdUfh`±</p> <p>?` adbZa`aY[US^`S` Ske]e</p> <p>F YUX]b[</p> <p>5 ZSbfWd`%</p>
	Hi`hcf]U`	<p>7`\\UdhYf`" `A cfd`\\c`c[ m</p> <p>9I`YfW]gY`%` `A` YbhU`"YI` ]Wcb</p> <p>9I`YfW]gY`&amp;` `A` cfd`\\c`c[ ]W]`Vci` bXUfm</p>

		9I YfW]gY" . : A cfd\c`c[ ]WU`WUHY[ cf]Yg 9I YfW]gY'(. : A cfd\c`c[ ]WU`WUHY[ cf]Yg
K YY_( . : %- 'A UfW ! : & ) A UfW	@YWi fY	GmbhUI `fDUfhi=± E W fW UWefdgUfgdW Ua` efgW Uk S` V YdS_ _ Sf[US^ USfWadMe F YUX]b[ 5 ZSbfWd&
	Hi hcf]U`	7 \ Udhyf" ' A cfd\c`c[ m 9I YfW]gY' ) . : Gk YX]g\ 9I YfW]gY`* . : 7 YVi Ubc 9I YfW]gY`+ . : 8 i hW 9I YfW]gY' . : Gk U\]]
K YY_ ) . : &* 'A UfW ! : % 5df]	@YWi fY	GmbhUI `fDUfhi=± FdS` eXd_ Sf[a` S^dg`Me F YUX]b[ 5 ZSfbWd&
	Hi hcf]U`	7 \ Udhyf' ( . : GmbhUI 9I YfW]gY`% @]b[ i ]gh]W_bck`YX[ Y 9I YfW]gY`& . : F YW fg]cb 9I YfW]gY" . : 5a V][ i ]m 9I YfW]gY' ( . : 7 cbgh]h Ybhgfhi Wi fY`
6fYU_ . : &5df]`! . : 5df]		
K YY_`* . : - 5df]`! : % ) 5df]	@YWi fY	GYa Ubh]Wg`fDUfhi=± >W] [US^eW_ S` f]Ue, W] [US^d]Sf[a` e S` V eW_ S` f]U X]SfgdMe F YUX]b[ 5 ZSbfWd'
	Hi hcf]U`	=b!WUgg`hYghf± H\Y`WUgg`hYgh]g`[ ]j Yb`Xi f]b[ `h\Y`hi hcf]U`h]a Yg f]%%5df]#&5df]`L`Mci `a i ghUHYbX`mci f`fY[ i `Uf hi hcf]U`"

<p>K YY_+. %* '5df]'! '&amp;&amp; 5df]'</p>	<p>@YWh fY</p>	<p>GYa Ubh]Wg' fDUfh=Ł</p> <p>6 Wj [e- 5 a` hWdeSf[a` S^_ Sj [ e- ebVWUJ SUf</p> <p>F YUX]b[</p> <p>5 ZSbfWd'</p> <p>D\cbYh]Wg' fDUfh=Ł</p> <p>E ag` V eWf_ W fe- Sdf[Ug'Sfack bZa` Wf[Ue</p> <p>F YUX]b[</p> <p>5 ZSbfWd(</p>
	<p>Hi hcf]U`</p>	<p>7 \ Udhyf` ) . 'GYa Ubh]Wg' UbX` DfU[ a Uh]Wg</p> <p>9I YfW]gY` ( . 'GYa Ubh]WUa V][ i ]mi@UŁ- 'fYŁQ</p> <p>9I YfW]gY` +. 'GYa Ubh]WdfcdYfh]Yg` @UŁ- 'fYŁQ</p> <p>9I YfW]gY` - . '5brcbra m</p> <p>9I YfW]gY` %&amp;. 'H\Ya Uh]Wfc` Yg</p>
<p>K YY_-. . '&amp;' '5df]'! '&amp;- 5df]'</p>	<p>@YWh fY</p>	<p>Bc` @YWh fY/ Di V` ]W\c` ]XUmf&amp;) '5df]'Ł</p> <p>F YUX]b[ #I YfW]gYg. 'cb` ]bY` fYgci fWg` fKYHU]`g dfcj ]XYX` ]b` A ccX` YŁ</p>
	<p>Hi hcf]U`</p>	<p>Bc` hi hcf]U`</p> <p>F YUX]b[ #I YfW]gYg. 'cb` ]bY` fYgci fWg` fKYHU]`g dfcj ]XYX` ]b` A ccX` YŁ</p>
<p>K YY_-. . '\$ '5df]'! '* 'A Um</p>	<p>@YWh fY</p>	<p>D\cbYh]Wg' fDUfh=Ł</p> <p>? adWa` Sdf[Ug'Sfack bZa` Wf[Ue- bdaeaVk</p> <p>F YUX]b[</p> <p>5 ZSbfWd(</p>
	<p>Hi hcf]U`</p>	<p>7 \ Udhyf` * . 'D\cbYh]Wg</p> <p>9I YfW]gY` . 'D\cbYh]WHfUbgW]dh]cb` @UŁ f[ ŁQ</p> <p>9I YfW]gY` * . 'D\cbYh]WXYgW]dh]cbg</p> <p>9I YfW]gY` +. 'D\cbYh]WZYUh` fYg</p> <p>9I YfW]gY` %(. 'F ci bXYX` Zfcbhj` ck` Y`g</p>
<p>K YY_%. . '+ 'A Um! %</p>	<p>@YWh fY</p>	<p>D\cbc`c[ mfDUfh=Ł</p>



F Ygci fWg

DfYgW]VYX F Ygci fWg