

ARTS3751

8YjY`cdaYbhGhiX]Yg. FYgYUfVXžDfUWjWY`UbX`9h\]Wg

HYfa 'H\fYY''##'&\$%-

7ci fgY[·]8YHJ]`g

7 fYX]hDc]bhg***

Gi a a UfmcZh\Y'7ci fgY

GiVYWh5fYU.6WhWab_WfEfgV[We

<ck ']g'XYj Y`cda Ybhih YcfmiffUbg`UhYX`]bhc`dfUWljWU``ci Hwca Yg3'<ck 'WUb`k Y`a U_Y`gi fY`h`Uh'U`[ccX`]XYU
'YUXg'hc`[ccX`XYj Y`cda Ybhdfc[fUa a Yg`UbX`dfc^YWg3`H\]g'Wci fgY`dfcj]XYg'mci `k]h``U`W hjb[!YX[Y`Zcf
YbhYf]b[`]bhc`XYj Y`cda YbhdfUWljWW`Ug`]hYI dcgYg'mci `hc 'h`Y`fYU'!`]ZY`WU``Yb[Yg'mci `k]```ZUWY`k \Yb
k cf_]b[`]b'XYj Y`cda Ybhcf[Ub]gUh]cbg'''Mci `k]```YUfb`dfUWljWU``g_]``g'UbX`hYW b]ei Yg`h`Uhk]```\Y`d`mci `hc
UXj UbWY`UbX`Ub']bbcj Uhjj Y`]XYU']bhc`U`k cf_UV`Y`XYj Y`cda Ybhdfc`YWl'Nci `k]```YUfb`UVci hbUj][Uhjb[
Yh`]WU``Wcbg]XYfUh]cbg']b'XYj Y`cda YbhUbX`\ck `hc`Uj c]X`fc`f`Uh`YUgha]b]a]gYE`\Ufa `hc`h\cgY`fYW']j]b[
Ugg]gHUbWY'''Mci `k]```VY`UV`Y`hc`YI d`cfY`\UbXg!cb`\ck `hc`XYj Y`cd'Yj]XYbWY!VUgYXž'dUff]W]dUhcfmUbX
WcbhYI HgYbg]hj Y`dfc`YWgžVm`YUfb]b[``\ck `hc`i bXYfgHUbX`UbX`bUj][UhY`f\Y`Z]Y`X`cZXYj Y`cda YbhUWhcfgž
XYW]g]cb!a U_]b[`dfcWYggYgž'UbX`\ck `hc`k cf_'Wc``UVcfUhj Y`UbX']bWi g]j Y''</pre>

7cifgY@YUfb]b[CiHWcaYg

%" 9I d`U]b`H\Y`fY`UH]cbg\]dg`VYHk YYb`fYgYUfW\ždc`]WhžUbX`U[YbWn]b`XYj Y`cda Ybh

&" 7 f]h]WU``mYj U`i UhY h\Y k Umg XYj Y`cda YbhU[YbW]Yg cdYfUhY UbX h\Y]f']a dUWrg

'" '7 cbXi WijbXYdYbXYbhUbX#cfWc``UVcfUhjjYfYgYUfW\']bhc`XYjY`cda YbhdfUWjWfUbX`Yh\]Wg

(" ⁵dd`m'WcbVWdhg`UbX`hcc`g`XYj Y`cdYX`]b`h\Y`Wci fgY`hc`gVWbUf]cg`UbX`WUgY`gh X]Yg

HYUW]b[GhfUhy[]Yg

H\Y''**!\cifgYa]bUf**`]g`XYg][bYX'hc`fYZYWfih\Y'hmdY'cZfYgYUfW\žkf]hjb[ž'UbX`]b!XYdh\`_bck`YX[Y'fYei]fYX]b`dfcZ'gg]cbU``gYhjb[g`cZXYjY`cdaYbhdfUWf]WY''`=h`]g`U`gc`XYg][bYX'hc`YbWcifU[Y`h\Y`_]bXg`cZ Wc``UVcfUhjY'k cf_`UbX`dYYf`ZYXVUW_`h\UhUfY`Wcaacb`]b`giW\`dfcZ'gg]cbU``gYhjb[g''

Mci 'gdYbX'h\Y'gYa YghYf']b'K cf_]b['; fci dg'UbX'k]``ghUm']b'h\YgY'Zcf'h\Y'gYa YghYf"''BchU``cZh\Y gYa]bUf'X]gW gg]cbg'k]``']bj c'j Y'[fci d'k cf_ž'Vi hUh'YUghgca Y'cZh\Y'h]a Y'YUW\'k YY_'k]``''

5ggYgga Ybh

- 5ggYgga Ybhgʻg\ci `X`VY`fYZYfYbWYX`]b`UWWcfXUbWY`k]h\'h\Y`GW\cc``cZGcWJU``GWJYbWYg FYZYfYbWJb[`; i]XYž`UjU]`UV`Y`Uhi <u>\hhdg.##gcWJU`gWJYbWYg"Ufhg"ibgk "YXi "Ui #a YX]U#GCGG:]`Y#GcGGSFYZYfYbWJb[S; i]XYS&\$% "dXZ
 </u>
- Bc[·]ZcchbchYgžd[·]YUgY[•]·H\Y[·]GcGG[·][i]XY[·]igYg[·]Ub[·]]b!hYI hWhUh]cb[·]gmghYa[·]
- DYUgYXCBCHII gYKYVTYZYTYbWIdU[YgigiWXUgK]_]dYXJUYWVCZJWJUUU]X cf[Ub]gUh]cbKYVg]hYgUfYC?ihciigY"

Ghi XYbhgʻk]```fYWY]j Y`Ub`]bhfcXi Wijcbʻhcʻh\]gʻUggYgga YbhijbʻK YY_'%UbXʻh\Y`Wci fgY`WcbhYbhijbʻK YY_'%'UbX &'k]``\Uj Y`[fci d`gYgg]cbgʻcbʻh\]gʻUggYgga Ybhhcʻdfcj]XY`ghi XYbhgʻk]h\`dYYfʻZYYXVUW_"``: cf`a cfY`XYhU]`g Wcbgi `hA ccX`Y''

Gi Va]gg]cb`bchYg.Cb`]bY`gi Va]gg]cb`cb`A ccX`Y

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hhYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a]`Uf]hm fYdcfhg"

5ggYgga Ybh'& '7f]h]WU`'Dc`]Wn6`c[

GHJfhXUHY.Bch5dd`]WUV`Y

@Yb[h\.', \$\$!-\$\$`k cfXg

8YHJ]`g. `Gh XYbhg`]XYbh]ZmU'dfYgg]b[`dfcV'Ya `]b`]bhYfbUh]cbU``XYj Y`cda YbhUbX'XYj Y`cd'Ub'UbU'mh]WU` V`c[`cZYf]b[`dc`]Wngc`i h]cbg"`H\Y'V`c[`g\ci `X'VY'Ufci bX', \$\$!-\$\$`k cfXg"`Gh XYbhg`k]``VY'UggYggYX VUgYX'cb'U'fi Vf]Wa UXY'Uj U]`UV`Y'hc'h\Ya 'Uhh\Y'ghUfhicZh\Y'Wci fgY'gc'h\YmWUb`k cf_`hck UfXg`gdYW]Z]YX ghUbXUfXg"`K f]hhYb'ZYYXVUW_'UbX'U'bi a Yf]WU``[fUXY'k]``VY'dfcj]XYX'k]h\]b'hYb`k cf_]b[`XUmg`cZ gi Va]gg]cb"``

5XX]h]cbU``XYHJ]`g.

D`YUgY`Wcbgi`hA.ccX`Y`Zcf`Z.fh\Yf`]bZcfa_Uh]cb"``Ghi XYbhg`k_]``VY`dfcj_]XYX`k_]h\`hcc`g`cb`\ck_'hc`k_f]hY`V`c[g UbX`cbY`GYa_]bUf`k_]``Wcj_Yf`_Ymg_]``g"``

Gi Va]gg]cb bchYg.Cb`]bY A ccX`Y UggYgga Ybh

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a]`Uf]hm fYdcfhg"

5ggYgga Ybh' . DcfhZc`]c

GhUfhXUhY.Bch5dd`]WUV`Y

@Yb[h\." ž\$\$\$ k cfXg a UI]a i a

8YHJ]`g. H\Y'Zcfa Uhž'WcbhYbh'UbX'cf[Ub]gUh]cb'cZh\]g'dcfhZc`]c']g'cdYb'UbX'k]``'VY'U[fYYX'i dcb'bc``UhYf h\Ub'k YY_'('cZh\Y'Wci fgY'VUgYX'cb'h\Y'Z]fgh'UbU`mh]WU``YggUm''=hWUb'VY'Vfc_Yb'Xck b']bhc'&!(Wca dcbYbhg`UbX'k]```]bWi XY'cbY'Wf]h]WU``fYZYWf]jY'`dUfh'``=hg\ci `X'bchYI WYX'' \$\$\$'k cfXg"'Ghi XYbhg'k]`` VY'UggYggYX'VUgYX'cb'U'fi Vf]Wa UXY'Uj U]`UV'Y'hc'h\Ya `Uhh\Y'ghUfhcZh\Y'Wci fgY'gc'h\YmWUb'k cf_ hck UfXg'gdYWJZJYX'ghUbXUfXg"'K f]hYb'ZYYXVUW_'UbX'U'bi a Yf]WU``[fUXY'k]``VY'dfcj]XYX'k]h\]b'hYb'k cf_]b[XUmg'cZgi Va]gg]cb"`'

5XX]h]cbU``XYHJ]`g.

D`YUgY Webgi `hA ccX`Y`Zef`Z fh\Yf`]bZefa Uh]eb"``H\]gʻdefhZe`]c`]gʻh\Y`W a i `Uh]eb`cZU`ghi XYbhfgi`]bXYdYbXYbh fYgYUfW: WebXi WhYX`Xi f]b[`'h\Y`Wei fgY`U]a]b[`'UhZ]``]b[`['Udg`]XYbh]Z]YX`]b`h\Y`]b]h]U``UggYgga Ybh'`H\]g a][\hVY`cbY``cb[Yf`d]YWY`ZfYgYUfW: cf`U`Wei d`Y`cZg\cfhYf`cbYg"`H\Y`WebhYbh]g`he`VY`U[fYYX`k]h.`h\Y Wei fgY`Webj YbYf`]XYU``mVmK_YY_`("``CbY`dUfhih\UhU```ghi XYbhg`\Uj Y`he`]bWi XY`]b`h\Y`defhZe`]c`]g`U fYZYWf]eb`cb``YUfb]b[[g`]b`h\Y`Wei fgY`UbX`cj YfU```ghfYUa"`` Gi Va]gg]cb bchYg.Cb`]bY A ccX`Y gi Va]gg]cb

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a]`Uf]hm fYdcfhg"

5 HrYbXUbWY F Yei]fYa Ybhg

Ghi XYbhgʻUfYʻghfcb[`mʻYbWci fU[YX'hcʻUhhYbX'U```WUggYgʻUbX'fYj]Yk ``YWhi fYʻfYWcfX]b[g"

7 ci fgY GWX YXi `Y

J]Yk WUgg ha YHJV Y

H]a YHJV`Y'

8 UHY	HmdY	7 c bhYbh
K_YY_`%`%*`GYdhYa_VYf`! &\$`GYdhYa_VYf	@YWA fY	=blfcXiWf]cbihcih∖Yi8YjY`cdaYbhiGhiX]Ygi7UdghcbY !; Yhh]b[ihci_bckiYUW\ich∖Yf"i
		=ðhfcXiWMjcbihciGK CHiUbUìmg]g
	Cb`]bY`5WAjj]hm	F Yj]Yk '&!' 'cZh Y'cb`]bY'gYWcf' &V'g]hYg'dfcj]XYX'hc mci 'cb'A ccX`Y"'GY`YWiUVci hih fYY!gYWcf' &V UXj Yfh]gYa Ybhg'h Uhmci 'k ci `X`VY']bhYfYghYX`]b Udd`m]b['Zcf'f]XYU``mZca 'X]ZYfYbhU[YbW]YgŁUbX a U_Y'U``]ghcZWca a cb'g_]``g#_bck `YX[Y'fYei]fYX" Cb'a ccX`Yž'YUW\'ghi XYbhk]```VY'[]j Yb'Ub'cb`]bY gdUWY'hc'dcghih Y' &V'UXg'Ug'k Y```Ug'h Y]f g_]``#_bck `YX[Y'gi a a Ufm"'H\]g'cb`]bY'UWh]j]hmZcfa g h Y'VUg]g'Zcf'[fci d'X]gW gg]cb']b'K YY_'&'UbX'H\]g UggYgga Ybhk]``\Y`d'mci 'k]h 'h\Y'[Ud'UbU`mg]g'h Uh Zcfa g'h\Y'Zci bXUh]cb'Zcf'UggYgga Ybh%''
K YY_`&.`&' `GYdhYa VYf'! &+`GYdhYa VYf	GYa]bUf	H\Y'GYa]bUf'k]``ZcW gʻcb'[fci dʻk cf_'k \YfY'mci WcbXi WhU'[UdʻUbU`mg]gʻVUgYX'cb'h\Y'&V UXj YfhjgYa YbhgʻWcbgi `hYX'UbX'ck bʻg_]``gʻUggYggYX VUgYX'cb'_bck `YX[Y'UWei]fYX'Xi f]b['h\Y]f i b]j Yfg]hmghi X]Yg" 5hh\Y'YbX'cZh\Y'GYa]bUfž ghi XYbhgʻ]XYbhjZmU'_Ym[Udʻh\Ymk Ubhhc`]a dfcj Y i dcb'Xi f]b['h\Y'7 UdghcbY"'
K YY_''.''\$`GYdHYa VYf'! (`CWbcVYf	@YWifY Cb`]bY [·] 5Wijj]hm	➡btfcXi WijcbitciFYZYWij YiDfUWijWi FYUXiUhiYUghH <f99x]zyfybhvic[gi]b< p=""> ➡bhYfbUhjcbUi8YjYicdaYbhifZfcaigi[YghYXig]hYgŁUbXi]XYbhJZmicbYicfitk ciWf]hYf]UicZUif[iccXfiVic[iUbXicbYicfitk ciWf]hYf]UicZUif[iccXfiVicfitk ciWf]hYf]UicZUif[iccXfiVicfitk ciWf]hYf]UicZUif[iccXfiVicfitk ciWf]hYf]UicZUif[iccXfit[ibXicbYicfitk ciWf]hYf]]UicZUif[iccXfit[ibXicbYicfitk ciWf]hYf]]UicZUif[ibXicbYicfitk ciWf]hYf]]UicZUif[ibXicbYicfitk ciWf]hYf]]UicZUif[ibXicbYicfitk ciWf]hYf]]UicZUif[ibXicbYicfitk ciWf]hYf]]Uif[ibXicfitk ciWf]hYf]]Uif[ibXicbYicfitk ciWf]hYf]]Uif[ibXicfitk ciWf]hYf]]Uif[ibXicfitk ciWf]</f99x]zyfybhvic[gi]b<>
K YY_`(`+`CW/cVYf`!`%% CW/cVYf	GYa]bUf 5ggYgga Ybh	[fcidik cf_`Xif]b['K YY_'("`` 7 cbhf]Vih]b['hci8YVUHYg']b`+bHYfbUH]cbU` 8 Yj Y`cda Ybh#'+a dUWf]b['+bHYfbUH]cbU` 8 Yj Y`cda YbhDc`]Wh#+bHfcXiWf]cb`cb`hc`\ck`hc k f]HY'g\cfhV`c[g#dc`]WhVf]YZg"``H\]g`GYa]bUf`]g'h\Y Zci bWUH]cb`Zcf`h\Y`gYWcbX`UggYgga YbhUbX`]bj`c`j Yg U``a]IhifY`cZ`YWhifYžYIYfW]gYg`UbX`[fcidik cf_"` 5ggYgga Ybh%'!`5bU`mH]WU``9ggUmf&)ı ž,\$\$!-\$\$
	999199a ibii	k cfXgŁXi Y VYZcfY %&!bccb cb - C WcVYf"

	KYY_`).°%(°CW/cVYf"!°%, CW/cVYf	GYa]bUf	9h\]Wgʻ]bʻ=bhYfbUh]cbU`8YjY`cdaYbhi#8cʻbcʻ∖Ufa"'
	KYY_`*.`&%`CWMcVYf'!`&) CWMcVYf	GYa]bUf	; Yhhjb[`fYUXmZcf"h\Y`∕cV`aUf_Y(h!`7UfYYfg`]b fg`]b =bhYfbUhjcbU``8YjY`cdaYbh
			K f]h]b[`U`gi WWYggZi``∕cV`Udd`]WUh]cb`#7J`fh∖YfY`k]`` U`gc`VY`Ub`cb`]bY`UWh]j]mnŁ
K_YY_`+.`&, `C_WrcVYf`!`% h\Y`gYWrd B∉EY∂bX¥Y5	GYa]bUf	=ðXighfm#5`iab]'DUbY`'!'k∖UhXcYg']hHJ_Y'hc'kcf_']b h∖Y'gYWfcf'#E''UbX'5	

FYgci fWfg

DfYgWf]VYX F Ygci fWYg

5 'fYUX]b[``]ghcZWca di `gcfmfYUX]b[g`Uj U]`UV`Y`h\fci [\`h\Y`I_BGK ```]VfUfmcb`]bY`]g`Uj U]`UV`Y`cb`ci f A ccX`Y`dU[Y`Zcf`YUW\`k YY_"`

FYWca a YbXYX FYgci fWrg

D`YUgY'Wcbgi `hAccX`Y"

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

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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]hjbž'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'mYUfŁ'" =Zmci UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZUi `hk]h\ 'Hi fb]hjb'mci 'a Um'Udd`mZcf'Ub'YI hYbg]cbž'Vi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU``Gi ddcfhfU`cb['k]h`Ubm'ch\Yf'fY`Yj UbhXcW a YbhgŁ'hc]bWi XY'Ug'Yj]XYbWi'hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUh]cb''`=Zmci 'Ya U]``9I hYfbU``Gi ddcfhimci 'k]``

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"`=hWUb`hU_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b[`hc`UWW]XYbhU``mWcdm]b[`Zca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh'

IBGK [fcidg'd`U[]Uf]ga]bhc h\Y Zc``ck]b[WUhY[cf]Yg.

7 cdm]b[..i g]b[.ih,Y`gUa Y`cf`j Yfmig]a]`Uf`k cfXg`hc`h,Y`cf][]bU``hYI h`cf`]XYU`k]h\ci hUW_bck `YX[]b[`h\Y gci fWF`cf`i g]b[`ei chUh]cb`a Uf_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[YgžUfhUbX`XYg][b`dfc´YWfgž'Ug`k Y```Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf*g`]XYUg`cf`k cfXg`k]h\ci hWfYX]h"

=bUddfcdf]UhY`dUfUd\fUg]b[..7\Ub[]b[`U`ZYk`k cfXg`UbX`d\fUgYg`k \]`Y`a cghmfYhU]b]b[`h\Y`cf][]bU` ghfi Whi fY`UbX#cf`dfc[fYgg]cb`cZ]XYUg`cZh\Y`cf][]bU`žUbX`]bZcfa Uh]cb`k]h\ci hUW_bck`YX[Ya Ybh`H\]g`U`gc Udd`]Yg`]b`dfYgYbhUh]cbg`k \YfY`gca YcbY`dUfUd\fUgYg`Ubch\Yf'g`]XYUg`cf`k cfXg`k]h\ci hWfYX]hUbX`hc d]YW]b[`hc[Yh\Yf`ei chYg`UbX`dUfUd\fUgYg`]bhc`U`bYk`k \c`Yžk]h\ci hUddfcdf]UhY`fYZYfYbW]b["

7 c``i g]cb. k cf_]b[k]h ch Yfg Vi hdUgg]b[cZth Y k cf_'Ug U dYfgcb'g]bX]j]Xi U`k cf_'' 7 c``i g]cb U gc]bWi XYg dfcj]X]b['mci f k cf_'hc Ubch Yf gh XYbhVYZcfY h Y Xi Y XUhYžcf Zcf'h Y di fdcgY cZh Ya

- i bXYfgHJbX*mci f*f][\hg*UbX*fYgdcbg]V]`]h]Yg*Ug*U*ghi XYbh*Uhil BGK
- VY 'Uk UfY 'cZd'U[]Uf]ga ž Wcdmf][\hzi I BGK 'Ghi XYbhi7 cXY 'cZ7 cbXi WhubX '5 WW dhuV Y I gY 'cZ I BGK '=7 H F Ygci fW g'Dc']Wh
- VY Uk UfY cZh Y gHUbXUfXg cZVY Uj]ci f YI dYWHYX cZYj YfmcbY]b h Y I BGK Wea a i b]m
- `cWUHY'gYfj]WYg'UbX']bZcfa UHjcb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci žch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``'h\Y fY`UhYX'UgdYWfg'cZ9@=G9'k]``\Y`d'mci 'a U_Y'h\Y'a cghcZmci f`gh X]Yg'Uh'l BGK "' \htd.#gi VYWf[i]XYg"`]VfUfm'i bgk "YXi "Ui #Y`]gY#UVci hY`]gY

5WUXYa]W=bZcfaUh]cb

: cf^{*}YgYbhJU^{*}gh XYbhJbZcfa UhJcb^{*}fY^{*}UhJb[^{*}hc.

fYei YghgʻZcfʻYl hYbg]cb/ `UhYʻgi Va]gg]cbgʻ[i]XY`]bYg/ fYj]YkʻcZa Uf_g/ I BGKʻ< YUʻh\ʻUbXʻGUZYhmdc`]WJYg/

