



ARTS3756

7 i ffYbh8YVUHg]b'8Yj Y`cda YbhGh X]Yg

HYfa`Hkcc`###`&\$%-

%o

%o %o

GWXcc`cZGcWJU`GWYbWg`#`I BGK`5ffg`UbX`GcWJU`GWYbWg

7 ci fgY`Cj Yfj]Yk

`GHUZZ7cbhUWhi8YHJ]`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWjhcb	D\cbY
F YbY`Dfcj]g	fYbY`dfcj]g4 i bgk "YXi "Ui	7cbgi `hUjcb`hja Y. Hi YgXUmbccbžcf VmYa Uj` Uddc]bha Ybh	A 6`%%)	

GW\cc``7cbhUWhi`bZcfa Uhjcb

GW\cc``cZGcWU`GWYbWg

Fcca`%) -

A cfj Yb`6fck b`7 &\$

Ya Uj`.gcgg4 i bgk "YXi "Ui

d\cbY. '\$&-' ,)`% \$+

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`*`

Gi a a UfmcZh\Y'7ci fgY

Gi VYWh5fYU. '6WhWab_ W f E fgV[Wé

⌘`7i ffYbh8YVUHg]b'8Yj Y`cda YbhGh X]Yg'k Y'k]``UbU`mgY`hY`WcbW`drg`UbX`WUgYg`Uh`hY`\YUfhcZ
W ffYbhXYVUHg]b'8Yj Y`cda YbhGh X]Yg`Zca`hY [`cVU`hc`hY`cWU`Yj Y`fUbX`VUW`U[U]bE`Mc`i`k]`
ZcW`g`cb`XYVUHg`hU_]b[`d`UW`]b`UWXYa]W`]hYfUhi fYždc`]WhUbX`UW]j]ghW]fWYg`UbX`hY`a YX]U`Mc`i`k]`

5ggYgga Ybh

5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
F YUX]b['E i]n'	&\$!	Bch5dd']WUVY	&
5bU`mg]b['8YVUH'g]b 'HYI h'	(\$!	%&# \$+ #&\$ %-	%ž ž(
5bU`mg]b['8YVUH'g]b '9j Yb'g'	(\$!	&' # \$, #&\$ %-	%ž ž(

5ggYgga Ybh8YHU]`g

5ggYgga Ybh% 'F YUX]b['E i]n'

GhUfhXUH.

@Yb[h. ' ' ' '\$\$('\$\$'k cfXg

8YHU]`g. 'G\cfhUbgk Yf'ei Ygh]cbg'h'fci [\ 'A ccX'Y'cb'Zci bXUH]cbU'fYUX]b[g": YXVUW_ h'fci [\ 'A ccX'Y'Z'ck]b['Wta d'Yh]cb'cZ'gh'7 cffYWiUbgk Yfg'X]gW ggYX'UbX'XYa cbghU'X']b'WUgg"

5XX]h]cbU'XYHU]`g.

H\fYY'fYUX]b[g'ei]nnYg'k cff'&\$! 'h'fU'Z*ı ž+ı žUbX'+ı 'fYgdYW]j Y'm' '\$\$('\$\$'k cfXg" 'E i]nnYg'k]`hU_Y d'UW']b'k YY_g' ('fW'j Yf]b['k YY_g'&! (ž+ 'fW'j Yf]b['k YY_g') !+ž'UbX'k YY_ '%fW'j Yf]b['k YY_g', !%ž

5ggYgga Ybh& '5bU`mg]b['8YVUH'g]b 'HYI h'

GhUfhXUH.

8YHU]`g. 'Gh XYb'g']XYbh]ZnUbX'UbU`mgY 'W ffYbhXYVUH'g']b'U'WXcgYb'UWUXYa]Wcf'dc']Wh'YI h'XfUk]b[']b UXX]h]cbU']h'fUhi fY'UbX'YI Ua d'Yg"&\$\$ '\$\$'k cfXgGh XYb'g'k]`fYW'j Y'k f]h'Yb'ZYXVUW_ UbX'U'bi a Yf]W' [fUXY'k]h]b'&'k YY_g'cZgi Va]gg]cb" 'H\Y'ZYXVUW_ g\YYhk]`VY'Uj U]UV'Y'Zca 'h'Y'VY[]bb]b['cZ gYa Ygh'f'g'c'h'Ugh'g'XYb'g'WU'b'k cf_ 'h'k UfXg'gdYW]ZYX'ghUbXUfXg"

Hi fb]h]b'gYh]b[. 'H\]g'Ugg][ba Ybh]g'gi Va]h'X'h'fci [\ 'Hi fb]h]b'UbX'gh XYb'g'Xc'bc'ghY'Y'Hi fb]h]b g]a]Uf]m'fYdc'f'g"

5ggYgga Ybh' . '5bU`mg]b['8YVUH'g]b '9j Yb'g'

GhUfhXUH.

8YHU]`g. 'Gh XYb'g']XYbh]ZnUbX'UbU`mgY 'W ffYbhXYVUH'g']b'U'fYW'bhYj YbhX]gW ggYX']b'WUgg'cf'gci fWX h'fci [\ 'a YX]Už'XfUk]b[']b'UXX]h]cbU']h'fUhi fY'UbX'YI Ua d'Yg"&\$\$ '\$\$'k cfXgGh XYb'g'k]`fYW'j Y'k f]h'Yb'ZYXVUW_ UbX'U'bi a Yf]W' [fUXY'k]h]b'&'k YY_g'cZgi Va]gg]cb" 'H\Y'ZYXVUW_ g\YYhk]`VY'Uj U]UV'Y'Zca h'Y'VY[]bb]b['cZgYa Ygh'f'g'c'h'Ugh'g'XYb'g'WU'b'k cf_ 'h'k UfXg'gdYW]ZYX'ghUbXUfXg" 'H\]g']g'h'Y'Z]bU' UggYgga Ybh'cZ'h'Y'W'ci fgY

5 HbXUbW F Yei]fYa Ybhg

D YUgY bch hUh YWñ fY fYwFX]b[g UfY bchUj U]UV Y Zcf h]g Wci fgY " Gh XYbhg UfY gfc b[mYbWci fU[YX hc UHbX U WUggYg UbX WcbhUWhY 7 ci fgY 5i hcf]mhc a U_Y UHbUUhj Y UffU b[Ya Ybhg Zcf WUggYg a]ggYX"

7 ci fgY GWXYXi Y

[J \]yk WUgg ha YHUV Y](#)

Hja YHUV Y

8UH	HmdY	7 cbhYbh
K YY_% " >i bY! '+>i bY	GYa]bUf	hfcXi W]cbg/UWXYa]Wci fbU'g'UbX'hY Z]fgh UggYgga YbhUg_" F YZYg\Yf'cb'dc]hW']XYc'c[]Yg UbX'XYj Y'cda YbhYcf]Yg" 8Y]bYUhb['X]gWd']bYg]b'XYj Y'cda Ybh'ZcW g'cb'hY'dfcV'Ya UhW fY'Uh]cbg\]d VYtk YYb'XYj Y'cda YbhUbX Ubh'fcd'c'c[m
K YY_&.%\$>i bY! %(>i bY	GYa]bUf	H\Y]bhYfbUh]cbU' Ubh]!Wcffi dh]cb Wfi gUXY. K Ug\]b[hc b'7 cbgYbgi g &"\$3'f#gh]h h]cbg'UbX [c] YfbUbW' ± 9hbc[fUd\]Yg Zcf'XYj Y'cda YbhYZZ]Wj YbYgg. H\Y ? nf[m'WUgY
K YY_" .%+>i bY! '&%>i bY	GYa]bUf	F Yj]g]h]b['hY fc'Y'cZ hY'ghUh

		bUhi fU`fYgci fW`Yi fFUWjcb`]b`DB; ž5i ghU`]Ub`5]X UbX`UbX`dfj] Uh]gU]cb`]b`J`Ubi`Uhi
	C b`]bY`5Wj]]m	C b`]bY`Z]a`]UWj]]m`6`UW`<`Ufj`Yghf%-`-`&Ł : cf`ci`f`cb`]bY`a`cXi`Yžd`YUgY`k`UfW`4`SU] : SchWef`f%-`-`&Ł`k`\\]W`]g`UWW`gg]V`Y`h`fci`[`\\`h`Y` I`BGK`]]VfUfm]W]U`c`[`i`Y` \Yfy` "GZ`mci`UfY`]b]hYfYghYX` =YbW`ci`fU`[`Y`mci`]h`k`UfW`U`h`fY`Z]a`gž YgdYW]U`m8[déf`5`a`f`SUfž`h`ci`[`\\`]h]g`U`Yb`[`h`m]h`a`Y` W`a`a`]h`a`Yb]h]UbX`mci`k`]]`bchVY`UhiU`X]gUXj`Ub]U`[`Y`]b`hYfa`g`cZ]hY`UggYgga`Yb]g`]Z`mci`W`ccgY`bchh`c` 9j`Yb`↑`gh]W]YW`_`ci`h]hY`VY`[`]bb]b`[`cZ`:]fgh7`cb]UWž`]h`\\`Ug`gca`Y`f]i`mUg]h`b]g`\\]b`[`Z`c]U`[`Y`"Q
K`YY`_`-`.`&`-`>`i`m!`& 5i`[`i`gh	GYa`]bUf	:`cc`X`g`YW`f]mž`[`YbXYfž`UbX`XYj`Y`cda`Ybh H`\\Y`]b]hYfgYW]cb`cZ]hYgY`h`d]W]g`Z`W`gYg`ci`f` U]hYb]h]cb`cb`k`ca`Yb`g`YW`bca`]WUbX`U`[`f]W`h`i`fU` fc`Yg`]b`hY`;`c`VU`Gci`h`ž`UbX`Y`Zc`f]g`h`c`dfca`chY` Ya`dck`Yfa`Yb]h]h`fci`[`\\`h`YgY`]]`Y`]l`ccXg`"
K`YY`_%\$`.)`5i`[`i`gh!`-` 5i`[`i`gh	GYa`]bUf	H`\\Y`Z`h`i`fY`cZ]b]hYfbU]cbU`XYj`Y`cda`Ybh` h`Yei`U`]mž`k`Y`!`VY]b`[`ž`UbX`h`Y`dcgg]V]`]mci`Z` [`fYYb`[`fck`h` h`h`]g`k`YY`_`g`gYa`]bUfž`hY`Z]bU`Z`f`5`F`HG`+`)*`ž`k`Y` `cc`_`h`c`h`Y`Z`h`i`fY`cZ]b]hYfbU]cbU`XYj`Y`cda`Ybh`K`]h` U`\\][`\\`mW`cb]hYghYX`UbX`Yj`Yf`Yj`c`j`]b`[`d`Ug]ž`k`\\`Uh` a`][`\\`h`h`Y`Z`h`i`fY`cZci`f`Z]Y`X`fYgYa`V`Y3`H`h`fci`[`\\`ci`h` h`Y`gYa`YghYfž`UbX`]bXYX`h`Y`Yb]hY`XYj`gh`X]Yg` a`U`č`fž`k`Y`\\`Uj`Y`W`bg]XYfYX`U`fU`b`[`Y`cZ]Z]fYbh` UddfcUW]Yg`h`c`XYj`Y`cda`Ybh`h`V`fcUX`hYfa`gž`h`YgY` gYY`_`UXXfYgg`[`c`VU`dcj`YfmiUbX`]bYei`U`]m]b` j`Uf]ci`g`k`Um\$`fž`W`bg`b]h]cb`m`

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

BchUj U]UV`Y

F YWca a YbXYX`F Ygci fWg

<YfY`]g`U``]ghcZ]a dcfhUbhXYj Y`cda Ybhghi X]Yg`ei fbU`gZ]b`U`d\UVYh]WU`cfXYf`Z`h`Y``]gh]g`U``]hY`XUi bh]b[a UmVY`VY[]b`k]h`h`cgY`]b`Vc`X.

5bbi U`F Yj]Yk`cZ5bh`fcdc`c[m

5bh]dcXY

7cbgYfj Uh]cb`UbX`GcWY]m

8Yj Y`cda YbhUbX`7\Ub[Y

8Yj Y`cda Ybh]b`DfUW]W

8Yj Y`cda YbhDc`]WmF Yj]Yk

9i fcdYUb`>ci fbU`cZ8Yj Y`cda YbhF YgYUfW

; YbXYf`D`UW`UbX`7i`h`fY

; `cVU``; cj YfbUbW

hYfbUh]cbU`C f[Ub]nUh]cb

>ci fbU`cZ8Yj Y`cda YbhGh X]Yg

>ci fbU`cZ<i a Ub`8Yj Y`cda Ybh

>ci fbU`cZ hYfbUh]cbU`8Yj Y`cda Ybh

>ci fbU`cZDYUWVi]X]b[`UbX`8Yj Y`cda Ybh

>ci fbU`cZDYUgUbhGh X]Yg

CI ZcfX`8Yj Y`cda YbhGh X]Yg

Dc`]h]W]; Yc[fUd`m

Dfc[fYgg`]b`8Yj Y`cda YbhGh X]Yg

Gh X]Yg`]b`7ca dUfUh] Y`hYfbUh]cbU`8Yj Y`cda Ybh

H\]fX`K cf`X`E i UfhYf`m

K cf`X`8Yj Y`cda Ybh

7ci 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

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" `hWUb`hU`Y`a Ubm Zcfa gž Zca `XY`]VYfUHY`WXYU]b[`hc`UWV]XYbhU`mW`dm]b[`Zca `U`gci fW`k]h`ci hUW_bck`YX[Ya Ybh`

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

7 cdm]b[.`i g]b[`hY`gUa Y`cf`j Yfmg]a]Uf`k cfXg`hc`hY`cf][]bU`hYI hcf]XYU`k]h`ci 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[Ygž UfhUbX`XYg][b`dfc`YWgž`Ug`k Y`U`g`dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]g`UbchYf`g`]XYUg`cf`k cfXg`k]h`ci hWYX]h`

hUddfcdf]UHY`dUfUd`fUg]b[.`7`U`b[]b[`U`ZYk`k cfXg`UbX`d`fUgYg`k`Y`a`cghmifYU]b]b[`hY`cf][]bU`ghfi`W`fY`UbX`#`f`dfc[fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`ž`UbX`]bZcfa`U]cb`k]h`ci hUW_bck`YX[Ya Ybh`H\]g`U`gc`Udd`]Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`UbchYf`g`]XYUg`cf`k cfXg`k]h`ci hWYX]h`UbX`hc`d]YW]b[`hc[YhYf`ei`chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k`c`Yž`k]h`ci hUddfcdf]UHY`fYZYfYbW]b["

7 c`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_]`7`c`i`g]cb`U`gc`]bWi`XYg`dfcj`]X]b[`mci`f`k`cf_]hc`UbchYf`gh`XYbhVYZc`fY`hY`Xi`Y`XUHYž`cf`Zc`f`hY`di`fdcgY`cZ`hY`a

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]W'g'UbX']bZcfa Uh'cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh'YgY'UfYUg'k]`VY'ZJa]]Uf'hc'mci ž'ch'Yfg'k]`VY'byk " "; U]b]b['U'gc`X'i bXYfghUbx]b['cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k]`Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hhd.##ji V'YW'i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

5 WUXYa]WbZcfa Uh]cb`

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`hc.

- fYei Yghg`ZcfYI hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I B GK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcVWXi fYg/
- gdYW]U`Vc]bg]XYfUh]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a]gUXj Ybh fY/
- ghi XYbhYei]hmUbX`X]gUV`]`hm/
- UbX`chYf`YggYbh]U`UWUXYa]W]bZcfa Uh]cbz`gYY

[\h\]dg.#k k k "Ufmg"i bgk "YXi "Ui #W ffYbh\]ghi XYbh\]bZcfa Uh\]cb`dfc\]Vc`g!\[i \]XY`\]bYg#](#)

⇒ U[Y`7fYX]h

7cj Yf]a U[Y.`A Uf_Yhj YbXcf`]b`? chU`6\Ufi zbcfhYUghA U`Um]U" `C f][]bU`d\ch] fUd\ `Vm8f`F YbY`Dfcj]g"

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7cXY.`\$\$\$- , ;