

# ARTS2486

H\Y': fYbW\ 'GdYU\_]b[ 'K cfX

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

7 ci fgY`Cj Yfj ]Yk

`GHJZ`7 cbhJW`i8YhJ]`g`

`7 cbj Ybcfg`

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| B Ua Y |  |  |  |  |
|        |  |  |  |  |

7ci fgY'8YHJ]`g

7fYX]hDc]bng`\*`

Gi a a UfmcZ\Y'7ci fgY

Gi V'YWh5fYU.'8dW UZ E fgV[Wé

è'h]g`Wéi fgYžgh XYbhg`k ]``\Uj Y`hY`cddcfh b]mhc`X]gWéj Yf`hY`WbhfU`]hmcZ\Y': fYbW\`Ub[ i U[ Y`]b  
ZUa ]b[ : fYbW\`]XYbh]mž`UbX`hc`YI d`cfY`hY`W ffYbhghUhi g`cZ\Y': fYbW\`Ub[ i U[ Y`]b`gcW]Yh]Yg`UbX  
]bgh]h ]cbg`Ufci bX`hY`k cfX`"H\]g`Wéi fgY`k ]``dfcj ]XY`gh XYbhg`k ]h`Ub`cj Yfj`]Yk`cZ\Y`X"\$

G

# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g`

| 5ggYgga YbhHUg_      | K Y][ \h | 8i Y`8UHŲ   | Gh XYbh@YUfb]b[<br>Ci hŲa Yg`5ggYggYX |
|----------------------|----------|---|---------------------------------------|
| HYgh                 | &\$!     | \$\$#/\$#&\$%-`fK YY_` Ț  | %ž                                    |
| C fU`X]gW gg]cb`     | &\$!     | 8 ]gW gg]cb`Xi f]b[ `hi hcf]U`g.<br>k YY_g`&hc` ) ž7 f]h]WŲ`<br>fYZYWŲ]cb`Xi Y`Vm) `da `cb`hY<br>XUmcZ hY`hi hcf]U`X]gW gg]cb | ` ž(                                  |
| ; fci d`dfYgYbhU]cb` | &\$!     | DfYgYbhU]cb`Xi f]b[ `hi hcf]U`g.<br>k YY_g`+`hc`%\$/gi Va ]gg]cb`cZ<br>Dck YfDc]bhXcW a YbhVm<br>) da `cZ hY`dfYgYbhU]cb`XUm  | &ž(                                   |
| : ]bU`YggUm          | ( \$!    | &- #/##&\$%-`\$) .\$\$ DA   | ( ž)                                  |

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@Yb[ hŲ. `WŲ``() `a ]bi hYg

8YHU]`g. `C bY`]b!WUgg`ei ]n`Wc] Yf]b[ `hY`Wc b hY bhcZ hY`Wc i fgY`k ]`hU\_Y`d`UWŲ`Xi f]b[ `hY`YWŲi fYgž`WŲ``() a ]bi hYg": Y YXVUW\_`j ]U`]b!WUgg`X]gW gg]cb`UbX`Wc`ffYWŲ]cb`cZ hYgh`

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

### 5ggYgga Ybh&.`C fU`X]gW gg]cb

GHUfhXUHŲ.`

@Yb[ hŲ. `\* \$\$`k cfXg

8YHU]`g. `Gh XYbhg`dfYgYbhU`WŲ]h]WŲ`UbU`mg]g`cZcbY`Ufh]WŲ`#cd]W`dfYdUfY`ei Ygh]cbg`hc`YUX`U`hi hcf]U`X]gW gg]cbž`UbX`k f]hY`U`WŲ]h]WŲ`fYZYWŲ]cb`fWŲ``\* \$\$`k cfXg`ē: Y YXVUW\_`j ]U`]b!WUgg`X]gW gg]cbž`Ug`k Y`Ug`k f]hY`b`ZYXVUW\_`cb`a`Uf\_g`Y Yh`

Hi fb]h]b`gYh]b[ .`H\]g`Ugg][ ba Ybh]g`gi Va ]hYX`h`fci [ \`Hi fb]h]b`UbX`gh XYbhg`Xc`bchgY Y`Hi fb]h]b`g]a ]Uf]mifYdcfŲg`

### 5ggYgga Ybh' .;` fci d`dfYgYbhU]cb

GHUfhXUHŲ.`

@Yb[ hŲ. ;` fci d`dfYgYbhU]cb.`) `a ]bi hYg`dYf`gh XYbh

8YHU]`g. `Gh XYbhtg:k ]`YUWX `Wcbf]Vi H`hc`U`%` `a ]b`[ fci d`dfYgYbHh]cb`cb`U`hcd]WfY`Yj Ubhlc`h`Y`Wci fgYz  
gi [ [ YghYX`VmiH`Y`Wcbj Ybcf": YYXVUW\_ j ]U`]b!WUgg`X]gW gg]cbz`fi Vf]Wg`UbX`]bX]j ]Xi U`k f]Hb`Wca a Ybhtg  
cb`U`a Uf\_g`YYH`

Gi Va ]gg]cb`bchYg.Gi Va ]gg]cb`cZDck YfDc]bhXcW a Ybhj ]U`Hi fb]hb

Hi fb]hb`gYH]b[ . H\]g`Ugg][ ba Ybh]g`gi Va ]H`X`h`fci [ \`Hi fb]hb`UbX`ghi XYbhtg`Xc`bchgYY`Hi fb]hb  
g]a ]Uf]mifYdcftrg"

5ggYgga Ybh(. : ]bU`YggUm

GHUfhXUH`.

@Yb[ h. `&Z\$\$\$`k cfXg

8YHU]`g. : ]bU`YggUmcZWU`&Z\$\$\$`k cfXgzk ]h`Uddfcdf]UH`fYZfYbW]b[ žgi Va ]H`X`cb`Hi fb]hb": YYXVUW\_  
j ]U`F`i Vf]Wg`UbX`k f]Hb`Wca a Ybhtg`cb`Hi fb]hb"

Hi fb]hb`gYH]b[ . H\]g`Ugg][ ba Ybh]g`gi Va ]H`X`h`fci [ \`Hi fb]hb`UbX`ghi XYbhtg`Xc`bchgYY`Hi fb]hb  
g]a ]Uf]mifYdcftrg"

5 HbXUbW F Yei ]fYa Ybhg

H\]g Wci fgY \Ug Ub UHbXUbW fYei ]fYa YbhUg gdYWZYX VY ck " Gh XYbhg'a i gha YYhikYgY UHbXUbW fYei ]fYa Ybhg'cf Udd'mhc hLY 7 ci fgY 5i hcf]mi]b k f]hb[ hc'a U\_Y U'hfbUhj Y UffUb[ Ya Ybhg hc'a YYhikY fYei ]fYX'gWcdY cZ YUfb]b[ #WcbhYbhZcf WUggYg'a ]ggYX"

5 HbXUbW cZ@YWi fYg#hi hcf]Ug' ]g'a UbXUhc fm]b h]g Wci fgY "I bYI W gYX UVgYbW Zca 'a cfY hUb &\$i cZ@YWi fYg#hi hcf]Ug'k ]' fYgi 'h]b hLY Uk UFX U ZU ]' fUXY" # YWi fYg UbX hi hcf]Ug mci 'k ]' UW]j Y mYb [ U[ Y k ]h WcfY Wci fgY WcbhYbhZYbUV]b[ 'mci 'hc UhtU]b 7 @C '( "

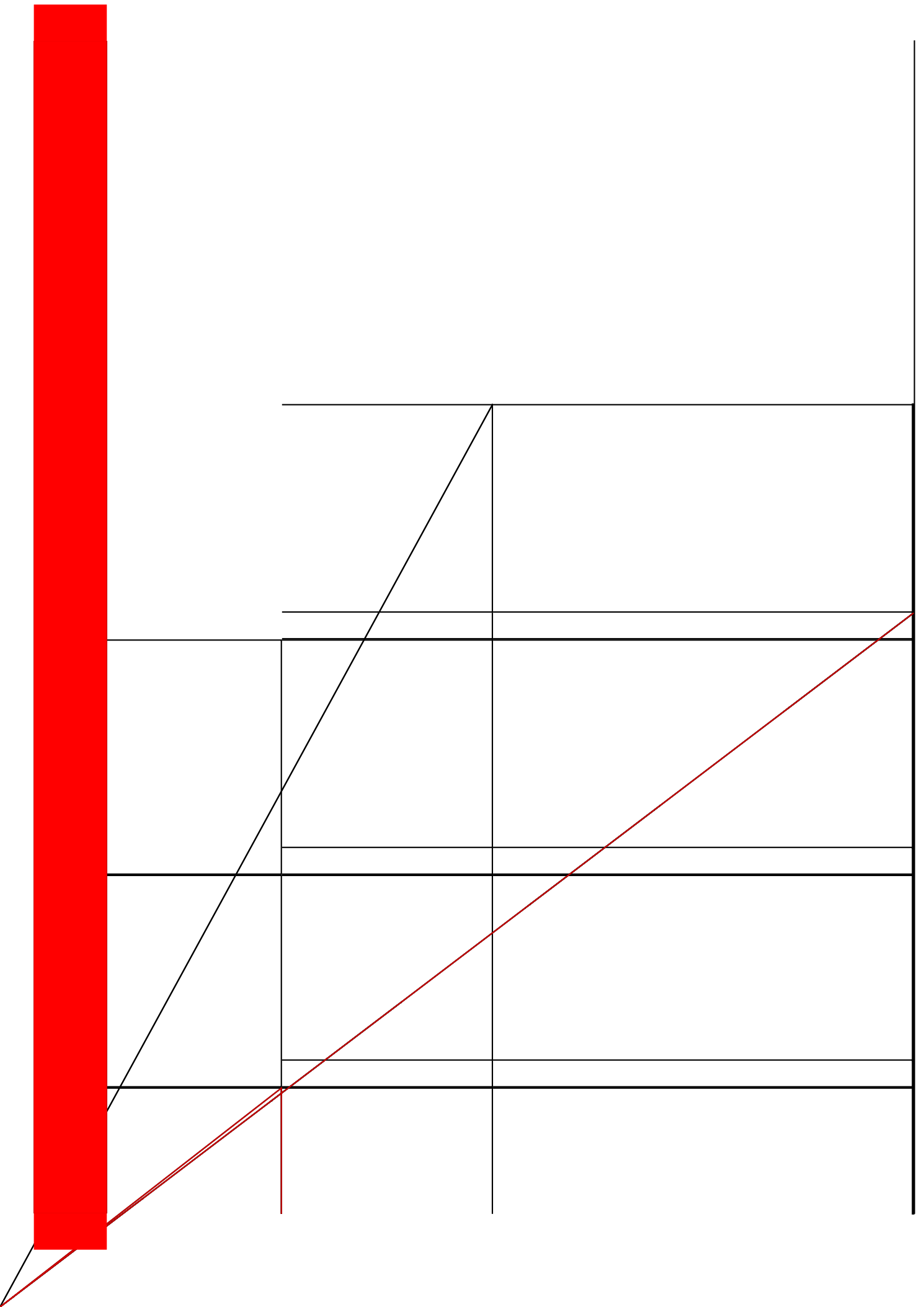
7 ci fgY GWX YXi `Y

[J \]yk WUgg'ha YhUVY](#)

H]a YhUV Y`

| 8 UH                                     | HmdY     | 7 cbhYbh   |
|--|----------|--|
| K YY_ % %* GYdhYa VYf!<br>&\$ GYdhYa VYf | @YWi fY  | H\Y V]fh cZ hY: fYbW Ub[ i U[ Y<br><br>-hfcXi W]cb. \]ghcf]W ZW hi fU UbX ]b[ i ]gh]W<br>XY Z]b]hcbg:cZ: fYbW<br><br>A Y'h]b[ 'dcdi U]hcbg UbX Ub[ i U[ Yg Zca 'j i Uf<br>@U]b hc'a YX]Yj U'A ]XX Y: fYbW<br><br>H\Y XYj Y'cda YbhcZ @]hY fU hi fY UbX 7 i hi fY ]b<br>: fYbW f]h]h % (h W]b h]f]Y]g |
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| Hi h.c.f]U' | C fU`dfYgYb'fU]cb  |



## F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

- A Uhf]U`g`hc`VY`a UXY`Uj U]`UV`Y`cb`A ccX`Y

F YWca a YbXYX`F Ygci fWg

- F Ygci fWg`hc`VY`a UXY`Uj U]`UV`Y`cb`A ccX`Y

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

7ci fgYg`UfY`dYf]cX]WU`mifYj ]Yk YXz`UbX`ghi XYbhg`ZYXVUW`]g`i gYX`hc`]a dfcj Y`hYa "": YYXVUW`]g  
[ U`hYfYX`Zca`ghi XYbhg`i g]b[ `a m9I dYf]YbW`" `h]g`YbWci fU[ YX`ghi XYbhg`Wca d`Yh`hY]f]gi fj Ymg`Vm  
UW`gg]b[ `hY`dYfgcbU`]gYX`k YV`]b`\_j ]U`hY`A ccX`Y`Wci fgY`g]hY"

Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

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HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)``%cf`Ya`U]`hYa`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`fI`\*)`XUmg`U`mY`UfL`≠mci`  
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhXi`Y`hc`U`ZUi`hik`]h`Hi`fb]hb`mci`a`Um`Udd`mi`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`  
a`i`gh`fY`h]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`Ubh`Xc`W`a`Ybhg`L`hc`  
]bWi`XY`Ug`Yj`]XYbW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb"≠mci`Ya`U]`9I`HYfbU`Gi`ddcfhmc`i`k`]`  
Ui`hca`Uh]W]m`fY`W]j`Y`U`h]W`Yhbi`a`VYf`z`Vi`h]Zmci`HY`Yd`cbY`mci`k`]`b`YYX`hc`gd`Y`W]W]m`Ug`\_`Zc`f`cbY`  
Hi`fb]hb`U`gc`dfcj`]XYg`i`dXU`HY`g`cb`h`Y]f`gm`gh`Ya`gh`U`h`g`cb`Hk`]hYf"

;`YbYfU`m`z`UggYgga`YbhHUg\_g`a`i`gh`VY`gi`Va`]hYX`Y`Y`Wfcb]W]m`j`]U`Y]h`Yf`Hi`fb]hb`cf`U`A`ccX`Y`  
Ugg][`ba`Ybh`f`b]bg`h`Ub`W`g`k`YfY`h`g`]g`bchidcgg]V`Yz`]hk`]`VY`g`h`YX`cb`mci`f`Wci`fgY`g`A`ccX`Y`g`]h`k`]h`  
U`h`fb`U`h]`Y`gi`Va`]gg]cb`XY`h]g"

:`cf`]b`Zc`fa`Uh]cb`cb`\`ck`hc`gi`Va`]hUgg][`ba`Ybhg`cb`]b`Y`j`]U`A`ccX`Y`.\`h`tdg`#`gh`XYbh`i`bgk`"YXi`"Ui`#`ack`!  
gi`Va`]hUgg][`ba`Ybh`a`ccX`Y`

## 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`Ug  
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`Ub[ ]b[ `U`ZYk `k cfXg`UbX`d`fUgYg`k \]Y`a cghmifYU]b]b[ `hY`cf][ ]bU`  
ghfi W`i 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]hU`bX`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'5WWhUv'Y'l 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'l BGK 'Wca a i b]m
- `cWWh'gYfj ]W'g'UbX' ]bZcfa Uh'cb'UVci hl BGK 'UbX'l 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 Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`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/
- gdYWU`Vc]bg]XYfUh]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a ]gUXj Ybh fY/
- ghi XYbhYei ]mUbX`X]gUV`]m/
- UbX`chYfYggYbh]U`UWUXYa ]W]bZcfa Uh]cbz`gYY

[\hhdg.#k k k "Ufng"i bgk "YXi "Ui #W ffYbhghi XYbh\]bZcfa Uhcb`dfcVc`g!\[ i \]XY`\]bYg#](#)

⇒ U[ Y`7 fYX]h

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

7F ⇒ CG

7F ⇒ CG`Dfcj ]XYf`7cXY. '\$\$-\$ , ;