

ARTS1571

±blfcXi WcfmGdUb]g\6

GYa YghYf'Hk c''#'&\$%

7ci fgY Cj Yfj]Yk

GHJZ 7 cbHJWh8 YHJ]`g`

7 cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`] m	@cWUh]cb	D∖cbY
< YbUf`J]WYbhY! 7 f]ghcVU`	\"j]\Wb\Y\\f\]ghc\U`4 ibgk"YXi"Ui	Hi YgXUmg'‰"' \$'hc ‰"' \$'cf'Vm	, ,	DfYZYffYX WcbHJWh`Y!
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GWkcc`cZ<iaUb]hJYg'UbX'@Ub[iU[Yg

@cWUhjcb. 'GWkcc' CZZWYžA cfj Yb'6fck b'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>

5 hryb X Ub WY F Yei] f Ya Yb hg

5 'ghi XYbhi]g'Yl dYWYX'hc'UhhYbX'U```WUgg'WebhUWi\ci fg'Zcf'U'ZUWY!hc!ZUWY'fl &: Ł'cf'V`YbXYX'Wei fgY'UbX Wea d'YhY'U```UWIjj]hJYg'Zcf'U'V'YbXYX'cf'Z ``mcb`]bY'Wei fgY"

5 'ghi XYbhik \c'Uff]j Ygʻa cfYʻh\Ubʻ%) 'a]bi hYgʻ`UhYʻa UmVYʻdYbU`]gYXʻZcfʻbcb!UhhYbXUbWY"'⊋gi W\`UʻdYbU`hm]gʻ]a dcgYXž'h\Yʻghi XYbhia i ghVYʻ]bZcfa YXʻj YfVU``mUhih\YʻYbXʻcZWUggʻUbXʻUXj]gYXʻ]bʻk f]h]b[ʻk]h\]bʻ&(\ci fg"

ZU'gh XYbhYl dYf]YbWrg']`bYggža]gUXj Ybh fY'cf'ch\Yf'cWW ffYbW'h\Uha U_Yg'UVgYbW'Zfca 'U WUgg#JWf]]mi bUj c]XUV`Yž'cf'Yl dYWg'hc'VY'UVgYbhZfca 'U'Zcfh\Wca]b['WUgg#JWf]]mz'h\Ymg\ci `X'gYY_

: cf`YggYbhJU``ghi XYbh`]bZcfa UhJcb`fY`UhJb[`hc.`fYei Yghg`Zcf`Yl hYbg]cb/fYj]Yk `cZa Uf_g/cWW dUhJcbU``\YU`h\UbX`gUZ/hm/Yl Ua]bUhJcb'dfcWXi fYg/gdYVJU``Wcbg]XYfUhJcb`]b`h\Y`Yj YbhcZ]``bYgg`cf`a]gUXj Ybhi fY/ghi XYbhYei]hmUbX`X]gUV]`]hm/UbX`ch\Yf`YggYbhJU``UWUXYa]W]bZcfa UhJcbž gYY`\hdg.#k k k "Ufhg"i bgk "YXi "Ui #W ffYbhghi XYbhg#JWUXYa]W]bZcfa UhJcb#dfchcWc`g![i]XY`]bYg#

7ci fgY 8YHJ] g

7 fYX]hDc]bhg**

Gi a a UfmcZh\Y'7ci fgY

 $\label{eq:continuity} \text{Gi VYWhiufYU.$^{\circ}$E bS$^{\circ}$ [eZ S$^{\circ}$V >Sf[^{\circ}$ 3_Wd[US$^{\circ}$ E fgV[We]] }$

 $GdUb]g\ "]g"h\ Y"`Ub[i\ U[\ Y"c\ Zcj\ Yf"\ Zci\ f"\ i\ b\ XfY\ X"\ a\]``]cb"d\ Ycd\ Y""\ \#i]g"gdc_Yb"c\ ZZ]W]U``m]b"\&' \ "Wci\ b\ Hf]\ Yg"Ub\ X"]h]g$

5ggYgga Ybh

5```ghi XYbhg`k \c`\Uj Y``bchWca dYhYX`dfYj]ci g`m5F HG%) +\$`UbX`\UX`gca Y`Yl dYf]YbWY`k]h\`h\Y`Ub[i U[Y`Y]h\Yf`Ug`U`\Yf]hU[Y``Ub[i U[Y`cf`h\fci [\`dfYj]ci g`]bghfi Wh]cbža i ghZ]```]b`h\Y d`UWYa Ybhei Ygh]cbbU]fY`Uj U]`UV`Y Uh\hdg.#\U`"Ufhg"i bgk "YXi "Ui #ghi XYbhg#Wci fgYg#Ub[i U[Y!d`UWYa Ybhg"

Mci 'k]``'bch'VY'dYfa]hhyX'hc'Ybfc```]b'U``Ub[i U[Y'Wci fgY'h\Uh']g'hcc'YUgm'Zcf'mci "'=Z'h\]g'c\Ww fgž mci k]``'VY'fYei YghYX'hc'W\Ub[Yk']hc'W\Ybfc`a Ybh' Y'fY Y'fY Y'fY Y'fY Y'fY

 $5ggYgga\ Ybhg`]bghfi\ Wh]cbg`UbX`YI\ hfU'dfUWh]gY`]g`Uj\ U]`UV`Y`]b`ci\ f`A\ ccX`Y`7ci\ fgY"``D`YUgY`WXYW_A\ ccX`Y`fY[i`UfmVYZcfY`mci\ f`h\ hcf]U`g`UbX``YWh fYgž$

7 ca Y'dfYdUfYX'hc'@YWhi fYg'UbX'Hi hcf]U'g']h]g']a dY`) YUgmZcf'mci "'=Zh\]g'c\WV fgž

GHJfh'XUhY.

@Yb[h\.) a]bi hYg Wcbj YfgUhcb

 $8 YHJ]^*g. ^5 g cfhcfU^*h ghWca df]g]b[^*U') ^*a]bi h Wcbj YfgUh]cb^*k]h ^*mci f'h hcf^cb^*hcd]Wg^*Wcj YfYX^*h]g g Ygg]cb^*^H]g^*h ghk]^*^VY^fYWcfXYX''^: YYXVUW_j]U'a Uf_g^cb^*m'$

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

 $Hi \ hcf]U`UWh]j]h]Yg`fbb![c]b[EUbX`U`g\cfhcfU``hYgh]b`k YY_\%"$

Mci f'Z|bU``a Uf_k]```fYZYWih\Y`ei U`]hmcZmci f'dYfZcfa UbW']b'Wca d`Yh]b['hi hcf]U``UWhjj]h]Yg'fk YY_`mcfU` UWhjj]h]YgŁ'Ž'mci f'dYfZcfa UbW']b'U'g\cfhicfU``hYgh'

Hi fb]hb gYhb[. H\]g]g bchU Hi fb]hb Ugg][ba Ybh

5ggYgga Ybh' . Cb!`]bY WcUWX]b[gYgg]cbg

 $\hbox{GHJfh}\hbox{XUhY}. \hbox{ "K} \hbox{ } \hbox{YY}_\hbox{"(} \hbox{ "hc} \hbox{ "k} \hbox{ } \hbox{YY}_\hbox{"-} \hbox{"I} \hbox{ "*} \hbox{"g}\hbox{Ygg}] \hbox{cbg}$

@Yb[h\.'' \$'a]bi hYg'l '* 'gYgg]cbg'Wca di `gcfm

8 YHJ]`g. `C fU``Wta dcbYbhfl \$`a]b`dYf`, 'gYgg]cbgŁ"'Mci f`a Uf_`k]``fYZYWfmci f`dfYdUfYXbYgg`Zcf'h\Y`WUgg UbX`UWflj Y`dUff]W]dUfljcb`]b`U`fUb[Y`cZUWflj]f]Yg"'H\Y`Wtbj Ybcf`a Uf_g`mci f`k cf_`VUgYX`cb`f\Y`fYWtfX]b[g cZmci f`gYgg]cbg`UbX`k YY_`mfYdcffg`Zfca `WtUWXYg"': YYXVUW_`]bX]j]Xi U``Wta a Ybfg`UbX`a Uf_g

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

5 'gi VghJbhJU``cfU``Wca dcbYbhfl \$'a]b`dYf`k YY_#* 'Wca di `gcfmgYgg]cbgŁ"' Mci f`a Uf_`k]```fYZYWhmci f fY[i `Uf`UhYbXUbWYz'dfYdUfYXbYgg`Zcf`h\Y`WUggz`UbX`UWIj Y`dUffJWJdUhJcb`]b`U`fUb[Y`cZUWIj] JhJYg"`7cUWXYg Xc`bch'a Uf_`mci f`cfU``dYfZcfa UbWY"`H\Y`Wcbj YbYf`a Uf_g`mci f`k cf_`VUgYX`cb`h\Y`fYWcfX]b[g`cZmci f gYgg]cbg`UbX`k YY_`mfYdcfhg`Zfca `WcUWXYg"`GYY`Cb!`]bY`WcUWX]b[`cb`A ccXY`Zcf`Z fh\Yf`]bZcfa UhJcb"

Hi fb]hjb gYhjb[. H\]g]g bchU Hi fb]hjb Ugg][ba Ybh

5ggYgga Ybh(. HYghl "

GhUfhXUhY. Bch5dd`]WUV`Y

@Yb[h\. 'j Uf]Yg

8YHJ]`g. 7 ca dfY\Ybg]j Y UggYgga Ybhg k \]WX U\$

f', 'gYgg]cbgŁ" 'MYg]g

H\]g`]g`U`Wca dfY\Ybg]j Y`UggYgga Ybhik \]W.`]g`VUgYX`cb`U```UgdYWg`cZGdUb]g\`ghi X]YX`]b`h\Y```YWi fYgž hi hcf]U`g`UbX`cb!`]bY`WcUW.]b["'9UW.`hYgh\Wcbg]ghg`cZh\Y`Zc``ck]b[') 'gY[a Ybhg.`5gÉgY X]WY`f] c\WUVi `Ufmtz`5gÉgY Zcfa U`f[fUa a Uftz`DUfU`YgW W.Uf`cf`DUfU``YYf``f@]ghYb]b['cf`fYUX]b[\Wca dfY\Ybg]cbtz`DUfU`YgWf]V]f`fk f]h]b[tz`UbX`7i `hi fU"'Hc'dfYdUfY`Zcf`h\YgY`hYghg`Wca d`YhY`GY`ZhYghg mci `k]```Z]bX`cb`h\]g`g]hY`i bXYf`fY`Yj Ubhik YY_z`Ug`k Y```Ug`E i]nnYg`mci `k]```Z]bX`cb`h\ g`g]hY`i bXYf`fY`Yj Ubhik YY_z`Ug`k Y```Ug`E i]nnYg`mci `k]```Z]bX`cb`h\ ccX`Y`i bXYf`fY`Yj Ubhik YY_z`Ug`k Y```Ug`E i]nnYg`mci `k]```Z]bX`cb`h\ ccX`Y`i bXYf`fY`Yj Ubhik YY_z`Ug`k Y```Ug`E i]nnYg`mci `k]```Z]bX`cb`h\ g`g`]hY`jb`fYgYg' Ubhik YY_z`Ug`k Y```Ug`E i]nnYg`mci `k]```Z]bX`cb`h\ g`g`]hY`jb`fYgYg' UbX`E i]nnYg`dfYdUfY`mci `Zcf mci f`HYghg`UbX`[]j Y`mci `Ub`]a a YX]UhY`ZYYXVUW_cb`mci f`GdUb]g\`g_]``g"`H\Y`Zcfa Uhi gYX`]b`h\YgY'hYghg]g.`U`[fUa a Uh]\WJ``cb!`]bY`Wca dcbYbhi#E i]nfi'Z]```]b`h\Y`V`Ub_g``UbX`"a i `h]d`Y`W\c]\W`"t'`DUfU`Yg\fY]V]f \Wca dcbYbhifU`g\cfh'\%)``!`%\\$ 'k cfX`\wa dcg]h]cb`]b`GdUb]g\`cb`hcd]\Wg`dfU\W]\WX`]b`h\Y`\WUggt"\8cbY`]b h\Y``UV`Xi f]b['hi hcf]\U``h]a YžqYY'A ccXY`Zcf`XYhU]`q"

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Hi fb]hb gYhb[. H\]g]g bchU Hi fb]hb Ugg][ba Ybh

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gh XYbhg UfY Yl dYWYX hc di hh\Y]f bUa Yg UbX gh XYbhbi a VYfg cb Yj YfmdU[Y cZh\Y]f Ugg][ba Ybhg"

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

#mci YbWci bhYf'U'dfcV'Ya k \Yb'UhYa dhJo['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\'Hi fb]h]bž'd'YUgY
hY'Yd\cbY'9| hYfbU'Gi ddcfhcb'-',) "''' %cf'Ya U]'h\Ya 'cb'<u>Yl hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui"</u>"'Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUft'''#mci
UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi 'hk]h\'Hi fb]h]b'mci 'a Um'Udd'mZcf'Ub'Yl hYbg]cbž'Vi hmci
a i ghfYhJ]b'mci f'h]W_Yhbi a VYf'Zfca '9| hYfbU''Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY'Yj UbhXcW'a Ybhgt'hc
]bWi XY'Ug'Yj]XYbWY'hc'gi ddcfhmci f'Yl hYbg]cb'Udd']WUh]cb'''#mci 'Ya U]''9| hYfbU''Gi ddcfhmci 'k]''
Ui hca UhJWJ'`mfYWY']j Y'U'HJW_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k]'''bYYX'hc'gdYWJZJWJ'`mUg_'Zcf'cbY''
Hi fb]h]b'U'gc'dfcj]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUh' g'cb'Hk]hYf"

; YbYfU`mž'UggYgga YbhitUg_g'a i ghVY'gi Va]hhYX'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"

@UhY 5ggYgga Ybh'DYbU`h]Yg

Gh XYbhgʻUfYʻfYgdcbg]V`YʻZcfʻh\Yʻgi Va]gg]cbʻcZUggYgga YbhhUg_gʻVmh\YʻfYei]fYX`XUhYgʻUbXʻhJa Yg" 8YdYbX]b[ˈcZh\Y`YI hYbhcZXY`Um]bʻh\Yʻgi Va]gg]cbʻcZUbʻUggYgga YbhhUg_ʻdUghh\Y`Xi Y`XUhY`UbXʻhJa Yž

- K cf_'gi Va]hhyx'%5'hc'% 'XUmg'UZhYf'h\Y'gh]di `Uhyx'XYUX`]bY'k]``'VY'UggYggYX'UbX'ZYYXVUW_dfcj]XYX'Vi h'U'a Uf_'cZnYfc'k]``'VY'fYWcfXYX'''=Zh\Y'k cf_'k ci `X'\Uj Y'fYWf]j YX'U'dUgg'a Uf_'Vi h'Zcf h\Y'`'UhYbYgg'UbX'h\Y'k cf_']g'U'Wca di `gcfm'Wci fgY'Wca dcbYbh'f\i fX`Y'fYei]fYa Ybhz'U'gh XYbh'k]`` VY'XYYA YX'hc'\Uj Y'a Yhh\Uh'fYei]fYa Ybh/
- K cf_'gi Va]hhYX`&\$`cf`a cfY`XUmg`UZhYf`h\Y`gh]di `UhYX`XYUX`]bY`k]```bchVY`UWWdhYX`Zcf UggYgga YbhUbX`k]```fYWY]j Y`bc`ZYYXVUW_ža Uf_'cf`[fUXY"'=Zh\Y`UggYgga YbhHUg_']g`U`Wca di `gcfm Wca dcbYbhcZh\Y`Wci fgY`U`gh XYbhk]```fYWY]j Y`Ub`l bgUh]gZJWcfm: U]``fl : Ł'[fUXY`Ug`U`fYgi `hcZ i bgUh]gZJWcfmdYfZcfa UbWY`]b`Ub`YggYbh]U``Wca dcbYbhcZh\Y`Wci fgY"

H\]g']bZcfa Uh]cb']g'U`gc'Uj U]`UV`Y'Uh

\hdg.#k k k "Uffg"i bgk "YXi "Ui #W ffYbhghi XYbhg#UWUXYa]W]bZcfa Uhcb#dfchcWc`g![i]XY`]bYg#

GdYWJU`7cbg]XYfUhJcb5dd`JWUhJcbg

 $\label{thm:condition} $$Mci `WUb`Udd`m'Zcf'gdYW]U``Wcbg]XYfUh]cb`k \Yb`]``bYgg`cf`ch\Yf`W]fW a ghUbWfg`]bhYfZYfY`k]h\`mci f UggYgga Ybh'dYfZcfa UbWf''$

G]W_bYggža]gUXj Ybhi fY'cf'ch\Yf'W]fW a ghUbWrg'VYmcbX'mci f'Wcbhfc``a Um

ł DfYj Ybhmci Zfca Wca d`Yhjb['U'Wci fgY'fYei]fYa Ybhž

ł? YYd mci Zfca "UthYbX]b["Ub UggYggUV`Y UWt]j]tmž

ł Ghod moi igi Va]hh]b[iUggYggUV Y k cf_ Zcf U Wci fgYž

ł G][b]Z]WUbhmiUZZYWhmci fidYfZcfa UbWli]biUggYggUVYkcf_žVYj]hiUiZcfa U`YbX!cZgYa YghYfYl Ua]bUh]cbžU WUggihYghžU`UVcfUhcfmhYghžUigYa]bUfidfYgYbhUh]cbicfiUbmich\YfiZcfa icZUggYgga Ybh'

: cfZ fhYfXYhJ)gJbfYYhJcbhcGdYVJU`7cbg]XYfUhJcbJbWiX]b[''K

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gY"<

5 WUXYa]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"'\lefi\Wb'hU_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b['hc`UVW]XYbhU`mWcdm]b['Zfca `U`gci f\W' k]h\ci hUW_bck `YX[Ya Ybh'

IBGK [fcidgdu[]uf]ga]bhch\YZc``ck]b[WuhY[cf]Yg.

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k]h\ci h'UW_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h'

±DUddfcdf]UhY`dUfUd\fUg]b[.'W\Ub[]b['U'ZYk'kcfXg'UbX'd\fUgYg'k\]`Y`acghmfYhJ]b]b['h\Y`cf][]bU`ghfi WhifY`UbX`]bZcfaUh]cb`k]h\ci hUW_bck`YX[YaYbh'H\]g'U`gc'Udd`]Yg`]b'dfYgYbhUh]cbg'k\YfY`gcaYcbYdUfUd\fUgYg`Ubch\Yf'g`]XYUg`cf'kcfXg'k]h\ci hWfYX]h''±iU`gc'Udd`]Yg`hc'd]YW]b['hc[Yh\Yf'ei chYg'UbXdUfUd\fUgYg`]bhc'U'bYk'k\c`Yžk]h\ci hfYZ/fYbW]b['UbX'U'ghi XYbh'g`ck b'UbU`mg]g`hc'Vf]b['h\Y`aUhYf]U`hc[Yh\Yf''

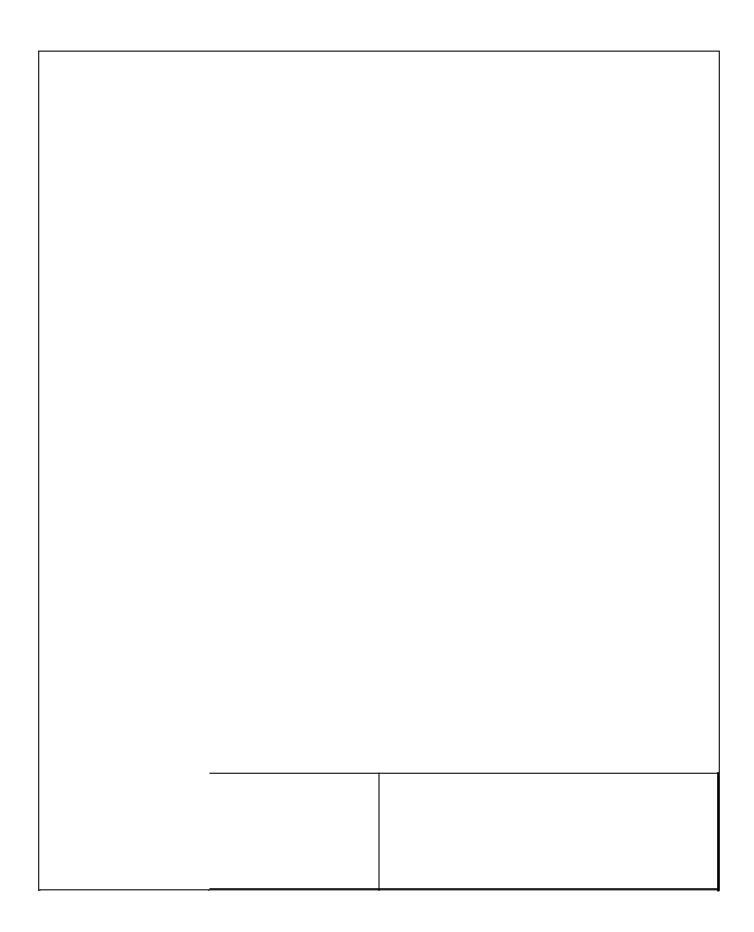
7 c``i g]cb. 'k cf_]b['k]h\ 'ch\ Yfg'Vi h'dUgg]b['c\Z'h\ Y 'k cf_'Ug'U'dYfgcb'g']b\X]j]\Xi U``k cf_"'7 c``i g]cb'U`gc]b\Wi XYg'dfcj]\X]b['mci f'k cf_'hc'Ubch\ Yf'ghi XYbh\ VYZcfY'h\ Y 'Xi Y 'XUhYzcf'Zcf'h\ Y' di fdcgY'cZh\ Ya d`U[]\Uf]g]b['Uh\Ubmh]a Yz'dUm]b['Ubch\ Yf'dYfgcb'hc'dYfZcfa 'Ub'U\WUXYa]\Wh\Ug_z'ghYU']b['cf'U\\ello i]f]b[Ubch\ Yf'dYfgcb'g' U\WUXYa]\Wk cf_'Ub\X'\\ello dm]b[']hz'c\ZYf]b['hc'\\ello a d`YhY'Ubch\ Yf'dYfgcb'g' k cf_'cf'gYY_]b[d\una Ybh\Zcf'\\ello a d`Yh\beta d`

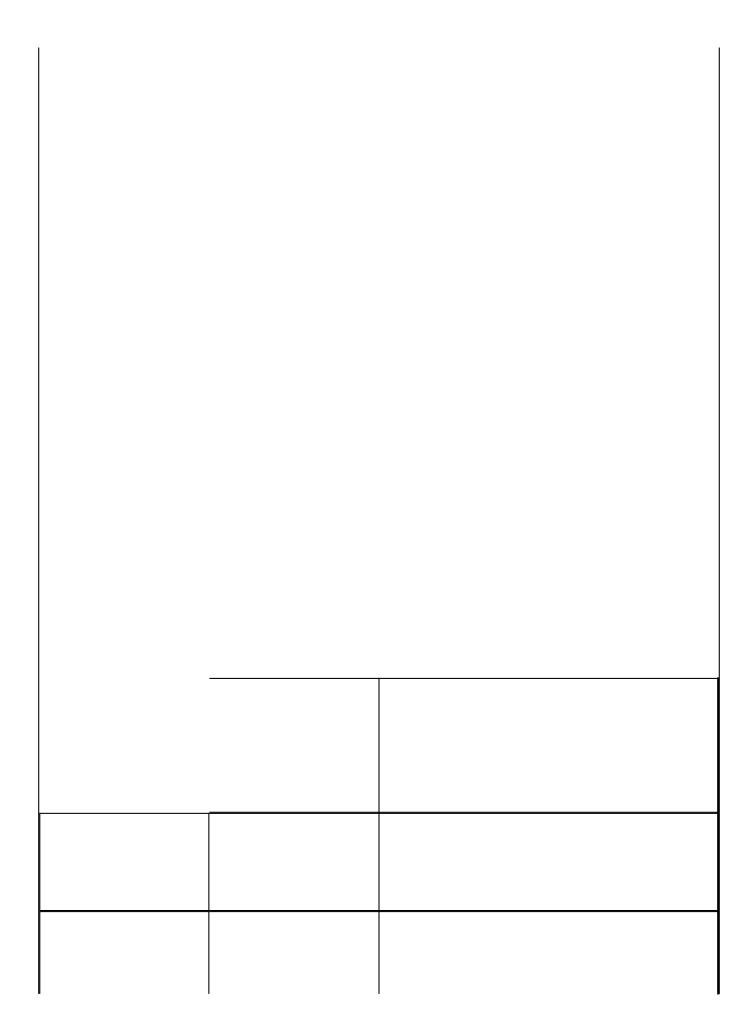
±bUddfcdf]UhY`W]hUh]cb.`7]h]b[ˈgci fW/gˈk \]WX`\Uj Y`bchVYYb`fYUXžk]h\ci hUW_bck`YX[]b[ˈh\Y`″gYWcbXUfm″gci fW/Zfca k \]WX`_bck`YX[Y`cZh\Ya`\Ug'VYYb`cVhU]bYX"

8 i d`]\WUh]cb`ff`gY`Zld`U[]\Uf]ga "Ł`gi Va]\h]b[`mci f`ck b`k cf_ž]b`k \c`Y`cf`]b`dUfhžk \YfY`]h`\Ug`dfYj]ci g`m VYYb`dfYdUfYX`cf`gi Va]\hYX`Zcf`Ubch\Yf`UqqYqqa Ybhcf\Wci fgY`UhI_BGK_`cf`Ubch\Yf`i b]\Yfq]\m"

7 cffYWhfYZYfYbWb[dfUWhWyg.

• VYHYfa UbU[Ymcifh]a Y





I	IIIVahii ivi fib [imi filk o i\ oi faili bofili bo
	HYgh' Xi f]b['mci f'kk c'\ci fg'h hcf]U`'h]a Yž
	d`YUgY [chc Acfj Yb 6fck b %\$' fbftg @Ub[@VŁ
	fP ! 7 &\$!%\$' Ł"

F Ygci fWyg

DfYgWf]VYX F Ygci fWYg

7 C A DI @GC F MiH9L H. '8]/W.c 'm\YW.c ''"'6i m]h]b 'h\Y '6cc_g\cdžcf'Y!Vcc_'j Yfg]cb""

`fk Y`UfY`Xc]b[`VXUdhYfg`*!%\$`]b`GYgg]cb`&Ł"; YhZJa]`]Uf`k]h\`h\Y`V&bhYbh'UbX`X]ghf]Vi h]cb`cZa UhYf]U`g`]b mci f`Vcc_"

• "'C b!`]bY'fYb'j]j cŁ'WcUW\]b[žF Y[]ghYf'f]b'K YY_g'%l' Ł'Zcf'mci f'k YY_`mcb!`]bY'`Ub[i U[Y'WcUW\]b['fl * 'gYgg]cbgŁ

CB!@B9F9GCIF79GfAccXYUbX8]Wkcm\YWkcYbij]jcGhXYbh7cadUb]cbig]hYŁ

Mci f'cb!`]bY fYgci fWg UfY cb mci f'Vcc_'g Gh XYbh7 ca dUb]cb g]hYzbc WcXYg bYW/ggUfmz ZfYY UWW/gg.

 $\mbox{htd.}\#/\mbox{Wg"k}\mbox{Y!VWg\#6cc}\mbox{g3UWhcb1]bXYI/]hYa = $X1$(+$, , $*$$/VWg=$X1*$',$

9 | d`cfY`h\]g`g]hY`hc`[YhZJa]`]Uf`k]h\`U```UWhj]h]Yg"`H\]g`g]hY`[]j Yg`mci``UWWYgg`hc`h\Y`f]W\`hcc`g`UbX fYgci fWYg`Uj U]`UV`Y`Zcf`h\]g`hYI h'`Mci``WUb`bUj][UhY`h\YgY`fYgci fWYg`]b`hk c`k Umg.

%"``I g]b['h\Y'a Ybi 'Uhh\Y'hcdžgY`YWhU'W\UdhYf"'5``]ghcZfYgci fWYg'Uj U]`UV`Y'Zcf'h\UhdUfh]W'`Uf'W\UdhYf k]```VY'dfcj]XYX"

 $\& "```I g]b['h\Y'a Ybi 'Uhh\Y'hcdz'gY'YWhU'fYgci fW'"`H\]g'k]```U``ck 'mci 'hc'UWW'gg'U'dUfh]W'`Uf'fYgci fW'g'k]h\]b'h\Y'gYWhcb'cf'[c]b['X]fYWhmhc'U gdYWZWWXUdhYf"$

C b h]g g]h mci k]``Z]bX GY Z h ghz J]XYcgz Gh XYbhYX]h cb 'Ui X]c z 5i X]c Z Ug\WJfXg" Mci 'Xc bchbYYX hc i gY ch\Yf f Ygci f W g 'Uj U]`UV Y cb h Y gUa Y dU[Y" D Y UgY bch Y h Uhmci f 'Vcc_]g``]b_YX k]h 'Gh XYbh YX]h cb 'Ui X]c 'cb 'mci f '8]W c 'm\YW\c 'Wca dUb]cb 'g]h f 1]b_ 'UVcj YŁ UbX B C H k]h @UV A Ubi U` 5i X]c "5`` Ui X]c 'Z] Yg 'Zcf Y I Yf W g Yg 'a Uf_YX ']b 'mci f 'Vcc_ k]h 'h Y Y Ufd\cbYg 'g][b 'W b 'V Y Zci b X 'i b X Yf 'h Y 'G h X Y bh YX]h cb 'Ui X]c '`]b_" I b XYf Gh XYbh YX]h cb 'Ui X]c 'mci 'k]`` U 'gc 'Z]bX 'ch Yf 'Ui X]c 'Z] Yg ``]b_YX 'hc ']a U[Yg 'UbX j c WUVi 'Ufm Zcf YUW\ W Udh Yf"

I bXYf'5i X]c'ZUg\WJfXg'mci 'k]``'Z]bX'gYj YfU``]bHYfYgh]b['`YUfb]b['`UWfj]]h]Yg'f7 UfXgž'; `cggUfmž'E i]nnYgŁ" I bXYf'; `cggUfmmci 'WJb'`]ghYb'hc'h\Y'dfcbi bW]Uh]cb'cZbYk 'k cfXg'UbX'd\fUgYg'dYfh]bYbhhc'YUW\'W\UdhYfž UbX'i bXYf'5i X]c'ZUg\WJfX'ei]nnYg'mci 'WJb'hYghmci f'_bck 'YX[Y"': cf'Yl hfU'[fUa a Uf'dfUWf]WY'[c'hc Cdh]cbU'#5XX]h]cbU`[fUa a Uf'dfUWf]WY'cb'A ccX'Y"

FYWca a YbXYX FYgci fWYg

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

7 ci fgYg UfY dYf]cX]\WU``mfYj]Yk YX UbX ghi XYbhg' ZYYXVUW_]g i gYX hc]a dfcj Y h\Ya "'

: YYXVUW_`]g`[Uh\YfYX`Zfca `ghi XYbhg`i g]b[`a m9I dYf]YbWY"`Ghi XYbhg`UfY`YbWci fU[YX`hc`Wca d`YhY`h\Y]f gi fj Ymg`VmUWWYgq]b[`h\Y`dYfgcbU`]gYX`k YV``]b_`j]U'h\Y`A ccX`Y`Wci fgY`g]hY"

∍a U[Y'7fYX]h

6UbWc XY]a 1/4 YbYg mgcb]Xcg A 97

\hd.##YWifgcgf X]h