ARTS3450

5 Xj UbWX 7 \]bYgY 5

HYfa C bY ## &$&%

7ci fgY 8YhJ]`g

7fYX]h Dc]bhg *

Gi a a Ufm cZ h\Y 7ci fgY

H\]g Wci fgY dfcj]XYg UXjUbWYX h]h]cb]b 7\]bYgY Ub[iU[Y fA UbXUf]bŁ ghi Xm ži g]b[U h\YI h\Vcc_ XYg][bYX gdYW]Z WU` m cf UXjUbWX 7\]bYgY YUfbYfg Uhi b]j Yfg]h Yg cihg]XY cZ 7\]bU" h Wca V]bYg Ub[iU[Y ghi X]Yg k]h\ Ub Yl d cfUh]cb cZ7\]bYgY W`hi fY UbX gcW]Yhm ži]bWi X]b[fUX]hcbU` W`hi fY" H\Y a YX]i a cZ

5ggYgga Ybh

5ggYgga Ybh HUg_g

5ggYgga Ybh HUg_	K Y][\h	8i Y 8UhY	Gh XYbh @Ufb]b[Ci hWca Yg 5ggYggYX
7i h fU 7ca dcbYbh	&$ı	E i]n %]b k YY_) YWi fYž E i]n &]b k YY_ %$ YWi fY	(
HYghg	) $ı	A]X! hYfa HYgh]b k YY_) h hcf]U /]bU YU Ua]b Zcfa U YU Ua dYf]cX	%ž &ž
; fci d Dfc YWh	' $ı	; fci d dfYgYbh Uh]cb]g Xi Y]b k YY_ - cf k YY_ %$ h hcf]U / F YgYUfW dUdYf]g Xi Y]b k YY_ %$	%ž (ž)

5ggYgga Ybh 8YhU]`g

5ggYgga Ybh % 7i h fU 7ca dcbYbh

8YhU]`g.

Gh XYbhg UfY [ ]j Yb h_k c]b!WUgg ei]nnYg f1 $ a]bi hYg YUW ž : YYXVUW]j]U fi Vf]WUbX]b!WUgg X]gW gg]cb"

Hi fb]h]b gYh]b[. H\]g]g bch U Hi fb]h]b Ugg][ba Ybh

5ggYgga Ybh & HYghg

8YhU]`g.

Gh XYbhg Wca d YhY Ua]X!hYfa HYghf&)ı ĿUbX U]bU YU a f&)ı ĿžVYhk YYb %) UbX & cufg YUW"

: YYXVUW]j]U]bX]j]Xi U Wca a Ybhgžfi Vf]UbX]b!WUgg X]gW gg]cb"

Hi fb]h]b gYh]b[. H\]g]g bch U Hi fb]h]b Ugg][ba Ybh

5ggYgga Ybh ' . ; fci d Dfc YWh

8YhU]`g.

Gh XYbhg Wca d YhY U [fci d fYgYUfW dfc YWhicb h YfW cgYb hcd]W H Y dfYgYbhUh]cb fl)ı Ŀ]g UggYggYX cb]bX]j]Xi U Ugž k]Y h Y fYgYUfW dUdYf fl)ı ĿfWX]j Yg cbY a Uf_"@Yb[h\.ı a]bi hYg dYf dYfgcb Zcf h Y dfYgYbhUh]cb UbX UVci h)$$ WXUfUWhYfg dYf dYfgcb Zcf h Y fYgYUfW dUdYf"

: YYXVUW]j]U fi Vf]WUbX]b!WUgg X]gW gg]cb"

F Ygci fWg

DfYgWf]VYX F Ygci fWg

- 6cc_ – 7\]bYgY Zcf 5XjUbWWX @YUfbYfg. @Yb[iU[YŽ GcW]Yhm UbX 7i `hi fY f&$%+Ł
  GmXbYm I BGK DfYggž &$%+"
- 7 Ugg]WU` 7\]bYgY #[ i XU] <Ubmi          rU_U @]hYfUfm 7\]bYgY #k YbmUbk Yb          ŁhYlhg k ]`
  VY a UXY Uj U]`UV`Y cb A ccX`Y"

F YWca a YbXYX F Ygci fWg

B#5

7ci fgY 9jU`i Uh]cb UbX 8YjY`cda Ybh

H\]g WcifgY k]`` VY Zcfa U`m YjU`i UhYX h\fci[\ A m9 l dYf]YbWY."

Gi Va]gg]cb cZ 5ggYgga YbhÈHUg_g

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

=Zmci YbWci bhYf U dfcV Ya k \Yb UhhYa dh]b[hc gi Va]hmci f Ugg][ba Ybh \fci [\ Hi fb]h]b bž d YUgY hY Yd\cbY 9I hYfbU Gi ddcfh cb - ' ,) '' ' ' %cf Ya U] h Ya cb YI hYfbU hY gi 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 `h ]h \ Hi fb]h]b mci a UmUdd mžcf Ub YI hYbg]cbž Vi hmci a i ghfYHU]b mci f h]W_Yhbi a VYf Zca 9I hYfbU Gi ddcfhfU cb[ k ]h Ubmch\Yf fY Yj UbhXcW a YbhgŁ hc ]bWi XY Ug Yj ]XYbW hc gi ddcfhmci f YI hYbg]cb Udd ]WUh]cb" =Zmci Ya U] 9I hYfbU Gi ddcfhmci k ]` Ui hca Uh]W a fYWY]j Y U h] W_Yhbi a VYfžVi h]Zmci hY Yd\cbY mci k]` bYYX hc gdYW XWU `mUg_ Zcf cbY" Hi fb]h]b U gc dfcj]XYg i dXUhYg cb h\Y fgmghYa g hUhi g cb Hk]hhYf"

; YbYfU mž UggYgga Ybh HUg_g a i ghVY gi Va]hhYX Y YWfcb]WU `mj ]U h\Y Hi fb]h]b cf U A ccX Y Ugg][ ba YbhÈb ]bghUbWg k \YfY h]g g bch dcgg]V Yž hk ]` VY ghUhYX cb mci f WcifgY'g A ccX Y g]hY k]h U hYfbUh]j Y gi Va]gg]cb XYhU]g"

: cf]bZ cfa Uh]cb cb \ck hc gi Va]hUgg][ba Ybhg cb]bY j]U A ccX Y. \ hhdg.##ghi XYbh]i bgk "YXi "Ui #ck ! gi Va]hUgg][ba YbhÈa ccX Y

5WUXYa]W<cbYghmUbX D`U[]Uf]ga

D`U[]Uf]ga]g iïg]b[h\Y k cfXg cf]XYUg cZ ch\Yfg UbX dfYgYbh]b[h\Ya Ug mci f ck b"+h\Ub h\U_Y a Ubm
Zcfa gž Zca XY]VYfUhY W\YUh]b[b[hc UWW]XYbhU]'mWdm]b[Zca U gci fWY k]h\ci h UW_bck`YX[Ya Ybh'

I BGK [ci dg d`U[]Uf]ga]bhc h\Y Zc``ck]b[WUhY[cf]Yg.

- i bXYfghUbX mci f f][\hg UbX fYgdcbg]V]`]h]Yg Ug U gh XYbh Uh BGK
-

5WUXYa]W‡bZcfa Uh]cb

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

- fYei Yghg cf Yl hYbg]cb/
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