



ARTS3025

5Xj UbWX'7 fYUhj Y'K f]h]b[

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

7ci fgY`Cj Yfj]Yk

GHJZ'7cbHJW`8YHJ]`g

7cbj Ybcfg

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7ci fgY'8YHJ`g

7fYX]hDc]bHg '*`

Gi a a UfmicZ\hY'7ci fgY

5`dfUW]W!VUgYX`Wci fgY`cb`mVf]X`UbX`bcb!Z]W]cb`k`f]h]b[`z`h`g`Wci fgY`Vi`]Xg`cb`Zci bXU]cbg`]b`h`Y`k`f]h]b[
UbX`UbU`mg]g`cZbUffU]j`Y`hY`hg"5g`dUfhcZ\hY`Wci fgY`mci`k`j`XYj`Y`cd`U`ghfcb[`i`bXYfgfUbX]b[`cZ
XYj`Y`cda`Yb]g`]b`W`b]hYa`dcfUfm]bUffU]j`Y`UbX`YI`dYf]a`Yb]U`bcb!Z]W]cb"McI`k`j`Uj`Y`YI`dYf]a`Yb]hX`k`]h`U
fUb[`Y`cZk`f]h]b[`Y`b]fYg`]b`@Yj`Y`%UbX`&K`f]h]b[`Wci fgYg"5g`U`@Yj`Y`" `Wci fgYz`h`g`Wci fgY`k`j`dfcj`]XY`U
gi`ghU]bYX`cddcfh`b]mZcf`mci`hc`]a`dfcj`Y`UbX`YI`hYbX`mci`f`k`f]h]b[`g_]`g`UbX`hc`Wca`d`YhY`U`Uf[`Yf`bcb!
Z]W]cb`k`f]h]b[`dfc`Y`W`"McI`k`j`VY`]b]fcXi`W`X`hc`h`Y`h`Yc`fY]h]W`"]ggi`Yg`UggcW]U]hX`k`]h`W`b]hYa`dcfUfm
bUffU]j`Y`bcb!Z]W]cbz`Wfcgg!`YbYf]Wk`f]h]b[`z`UbX`YI`dYf]a`Yb]g`]b`h`Y`W`b]hYa`dcfUfmYggUmik`]\`Y`UbU`mg]b[
_YmgUa`d`Y`hY`hg`Z`ca`h`g`Z]Y`X`"H\]g`Wci fgY`U]a`g`hc`Zcg]hYf`U`dYYf!W`b]hYX`Wci`cdYfU]j`Y`YUfb]b[`dfcW`gg
k`\]W`YbWci`fU[`Yg`mci`hc`hU`Y`fYgdc]b]V`]mZcf`mci`f`ck`b`XYj`Y`cda`Yb]UbX`YUfb]b[`"

7ci fgY`@YUfb]b[`Ci`hWca`Yg

%`DfUW]W`h`Y`WUzicZk`f]h]b[`hc`YI`dUbX`mci`f`fYdYf]c]fY
&"

5ggYgga Ybh

5ggYgga YbhHUg_g

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|-----------------------|----------|--------------------------|--|
| 5ggYgga YbhHUg_ | K Y][\h | 8i Y'8UH | Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX |
| 7 f]h]WU`9ggUmi | (\$i | %* #/\$#&\$&\$'%%\$\$'DA | %ž ž(|
| A Ucf'7fYUhj Y'K cf_` | * \$i | &* #/\$#&\$&\$'%%\$\$'DA | %ž&ž ž(|

5ggYgga Ybh8YHU]g

5ggYgga Ybh%

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5 hYbXUbW F Yei]fYa Ybhg

Gh XYbhg UfY gfhcb[mYbWci fU[YX hc UHhYbX U WUggYg UbX fYj]Yk YWfi fY fYWcfX]b[g"

7 ci fgY GWXYXi Y

[J Yk WUgg ha YhUVY](#)

Hja YhUVY

| 8UhY | HmdY | 7cbhYbh |
|--------------------------------------|----------|---|
| K YY_%%(GYdhYa VYf! %GYdhYa VYf | @YWh fY | K \Uh]g'bUffUhj Y'bcblZ]W]cb'UbX'k \YfY'k]`=Z]bX'h3 =hfcXi W]cb'hc Wci fgY'UbX']hg'cVYWhj Yg 5ggYgga YbhgZfYUX]b[g'UbX'k cf_g\cdd]b[|
| | @YWh fY | ; Yh]b['GHUfhYX 5ddfcUWXYg'hc'bUffUhj Y'bcblZ]W]cb'UbX'k Umg'hc [YhghUfhYX >ci fbU]ga 'UbX'bUffUhj Y'bcblZ]W]cb CdYb]b['ci hU'g'hc'fm ' HYI hg <Y'Yb'; UfbYf--'5hH\Y'A cf[i Y']b'F dgWE faqVé, E WwUfW @a` ZB[Uf[a` fHYI hz%- -*Ł A]fY]'Y>i V\Ui '-H\Y'A cgh<c`mC VYWh]b'hY <ci gY]b'FSTWf? SYSI [Wz>i `mi&+z&\$%*` \hdg.##k k k "hUV'Yha Uf "Wca #GYWhcbg#Vca a i b]m#Uff VYg#hY!a cgh\c`mC VYWh]b'hY!\ci gY A Uf[UfYhG]a cbg--'H]Yg'hUh6]bX']b'9 dXfZ D Vh[W , B Wab'W>[] WGezK]bhYf'&\$\$) |
| | GYa]bUf | GYa]bUf. ; Yh]b['ghUfhYX 8Yj Y'cd]b['U'W'bfU`ei Ygh]cb Hfi gh]b['mci f'cVgYgg]cbg |
| K YY_&.&%GYdhYa VYf! &)GYdhYa VYf | @YWh fY | J c]W'UbX'h.Y'9ggUm K \UhXc'k Y'a YUb'k \Yb'k Y'hU'_UVci hfjc]WfB |

| | | |
|--|-----------------|---|
| <p>K YY_(.)'C WtcVYf!'- C WtcVYf</p> | <p>@YWi fy</p> | <p>9h]WJ'Wcbg]XYfUhcBg K f]h]b['D`UWV'. '<ca Y`UbX`5k Um H\Y`ja dcfUUbW`cZgYf]b[`UbX`d`UWV :]bX]b[`h\Y`YI hfUcfX]bUfm]b`h\Y`Yj YfmXUm HfUj Y`k f]h]b[`fUh`ca Y`UbX`UVfcUXt . HYI hg 5`]gcb`K \]hU_Yf-`K `c`? bck`g`K \YfY. BYh\YfgdUWV`]b`E`kV` Wk DWh[W` aX4aa] eZ`C`WtcVYf`&+Z`&\$%*` \hdg.##gmXbYmfYj]Yk cZ/cc_g`Wca`#ggUm#fYXZfb! k`c!` bck`g!k` \YfY!bYh\YfgdUWV# Gi bYYH`DYfYg`XY`7`cgHJ. `5`<ca Y`]b`5bUbXU`UbX h\Y`K`cfX`]b`E`kV` Wk DWh[W` aX4aa] eZ`C`WtcVYf`&+Z`&\$%*`Z` \hdg.##gmXbYmfYj]Yk cZ/cc_g`Wca`#ggUm#ca`YI` UbUbXU!k`cfX# HUbM`J`Uj`]cj`U`-`K`Y`5fY`GdYU_]b[`]b`7`cXY`]b`I`W` 3dWE`bVS][`Y`[`5aVWf`b]cZ`&\$&\$t</p> |
| | <p>GYa]bUf</p> | <p>K f]h]b[`UVci h`cWJ`d`UWVg D`UWV`UbX`gHcfm K f]h]b[`UVci hfUj Y`</p> |
| <p>K YY_)`.%&'C WtcVYf!`%*` C WtcVYf</p> | <p>@YWi fy</p> | <p>K f]h]b['D`UWV`&. `9bj]fcb`a`Ybh`UbX`9Wc`c[`m K f]h]b[`UVci h`h\Y`bUhi`fU`k`cfX 9Wc`c[`mUbX`W]a`Uh`]b`bcb!`Z]W]cb . HYI hg. >Ua`Yg`6fUX`Ym-`5b`C`W`Ub`UbX`Ub`b`ghU`b]b` E`kV` Wk DWh[W` aX4aa] eZ`5i [`i`gh`&%Z`&\$%`Z` \hdg.##gmXbYmfYj]Yk cZ/cc_g`Wca`#ggUm#Ub!`cW`Ub! UbX!`Ub!`]bghU`b# Gcd\]Y`7`i`bb]b[`\Ua`-`-`;`UfXYb]b[`Uh5`WJhfUn`z`]b` F`ZW?`a`fZ`kZ`A`UfW`&\$%*` F`YVYWWJ`;`][`[`g`-`K` \U`Y`:`U`-`]b`9`dS`fS`##%&`&\$%)`</p> |

| | | |
|----------------------|----------|---|
| | | <p>\hdg.##f fUbu"Vca # \U'Y!ZJ`#</p> <p>GHyd\Yb'A UfWY'-'H\Y'Di fgi]hcZ7`Uf]mi]b'U'H]a Y cZD`U[i Y'']b'>ae 3' YWMe DW[W aX4aa] et +'5df] &\$&\$</p> <p>\hdg.##UfYj]Yk cZcc_g"cf[#Jfh]WY#di fgi]hWUf]mi ha Yld`U[i Y#</p> |
| | GYa]bUf | <p>H\Y`bUhi fU`k cfX`UbX`\i a Ub`ghcf]Yg</p> <p>K f]hb[`UVci hYa Yf[]b[`ghcf]Yg</p> |
| K YY_*.:%`C WcVYf!'& | | |
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|--------------------------------------|----------|--|
| | | <p>HYI hg</p> <p>GhYd\Ub]Y'; i YghUbX'? UHY'F][[g-'5b'5fWX]hYWi fY cZ9Uf mA cHYf\ccX'f5bX' bXYdYbXYbW']b'FZW >[XW 4dai % ž&\$%+"</p> <p>G\Y]U'<Yh]-': fca 'a m8]Uf]Yg'f&\$\$*!%\$Ł]b 5`d\UVYh]W'`C fXYf']b'` Ł#l -ggi Y'% ž&\$%(' \hdg.##bd'i gcbYa U["Vta #ggi Y!% #ggUmq#fca la m X]Uf]Yg#</p> <p>8 Ub]Y`A U`cfmC fhYf['-`7\UdhYf'H]hYg'Zca 'hY C b`hY`BcgYžDc!: UWX`HfUbgA UgW`]bY`A Ya c]f`= 5a`Hfm]b[`Bchlc`K f]hY']b`Ea_ WZ[Y FZSf? Sk E ZaU] S` V 6 [eUdW[f Kag`fGW]VYž&\$&\$Ł</p> |
| | GYa]bUf | <p>: fU[a Yb]U]cb`UbX`Wc`U[Y</p> <p>: ci bX`k cfXg</p> <p>C f[Ub]g]b[`mci f'a UHYf]U`</p> |
| K YY_-'-`Bcj Ya VYf! %`Bcj Ya VYf | GYa]bUf | <p>5ddfcUWX Yg`hc`W]h]W]ga</p> <p>H\Y`dYfgcbU`j c]W`UbX`hY`W]h]W`j c]W`</p> <p>9h.]W`Wc]bg]XYfU]cbg</p> |
| | @YWi fY | <p>7f]h]W]ga`UbX`F Yj]Yk]b[</p> <p>B</p> |

| | | |
|--|-----------------|--|
| | <p>@YWhi fY</p> | <p>K \Uh\UddYbg'bYI h3</p> <p>F Yk f]h]b['UbX'YX]h]b[</p> <p>D]hW]b[/gi Va]gg]cbg'UbX'di V]W]h]cb'ci hYhg</p> <p>DfcZYgg]cbU'UXj]W</p> <p>.</p> <p>Bc'gYh'hYI hg'h.]g:k YY_</p> <p>8c'gca Y'fYgYUfW]]b]c'']hYfUfmi'ei fbU'g'UbX</p> <p>a U[Un]bYg]bghYUX</p> <p>.</p> |
| | <p>GYa]bUf</p> | <p>9X]h]b[</p> <p>D]hW]b[</p> <p>:]bX]b['U'\ca Y'Zc'f'mci f'k cf_</p> |

[\hdg.##bd`i_gcbYa_U\["Vc`a_#ggi_Y!'`\(#dc`hWg#hY!d\]b_#](#)

- 5bXfYU`@cb[`7\i `-'Bc`C bY`K Ubhg`#ž]b`3X[VSh[fž`Bcj_Ya_VYf`)ž&\$\$% ž
[\hdg.##k_k_k`"UZZXUj`\]hUfh#Ufh\WYg#bc!cbY!k_Ubhg!\]h](#)
- GHrd\Yb`A`UfWXY`-'H\Y`Di`fgi`]hcZ7`Uf]mi]b`U`H]a`Y`cZD`U[`i`Y`']b`>ae`3`YWWé`DWh[W`aX4aa]eł`+`5df]`&\$\$`
[\hdg.##UfYj`Yk`cZ`cc`g`cf\[`#Ufh\WY`#di`fgi`\]hWUf\]mi\]h`a`Y!d`U\[`i`Y`#](#)
- ;`;`]`Ub`A`YUfg`-'`:`U]fm8YUh`']b`:`73F`\$&`,`FZSfe`[f`Xad``ai``fl`]fUa`cbXcž`&\$\$%\$Ł
- 8Ub]Y`A`U`cfmC`fhVYf[`-'7`UdHf`H]hYg`Zca`h`Y`C`b`h`Y`B`cgYž`Dc!:`UW`X`HfU`bga`UgW`]bY`A`Ya`c]f`=5a`hfm]b[`B`ch`c`K`]h`']b`E`a`_`WZ[`Y`FZSf`?`Sk`E`ZaU]`S`V`6[eUdW[f`Kag`fGW]VYž`&\$\$%\$Ł

Bck 'hUh7 5H9=Yj U'i Uhcbg'UfY 'WbXi W'X'cb'jbyžgh XYbhdUfhWdUhcb \Ug'XfcdYX'XfUa UhW'mž
fYgi 'hjb['j]b'ZYXVUW_k \jW'jg'ghUhgghW'mi bfY'jUV'Y": cf'jbgfUbwWžk \Yb'cb'mU'ga U'dfcdcfh'cb'cZ
gh XYbgh fYgdcXž'cbY'X]ggUhgZjYX'gh XYbhWb'Wbgh'hi hY'&\$i 'cZhY'cj YfU''fYgdcbgY" #hY'bxg'hc'VY'cb'm
hY'gh XYbgh'k \c''cj YX'U'W'i fgY'cf'h'cgY'k \c'k YfY'X]g''i g]cbYX'Vm]hk \c'hU_Y'hY'hja Y'hc'Z''ci h'hY
gi fj Ymg" H\jg'dfYgYbgh'U'g_Yk YX'cj YfU''ja dfYgg]cb'cZk \Uhgh XYbgh'h'ci [\h'M'ci 'UfY'h'i gi f[YX'hc'hU_Y
hY'hja Y'hc'Z''ci h'hY'7 5H9=gi fj YmiUh'hY'YbX'cZgYa YghYf" F Ya Ya VYf'hc'cž'hUh]b'hY'gUa Y'k Um
W'a a Ybgh'cb'Ub'Ugg][ba YbhUfY'a cfY'\Y'dž ''h'Ub'U'a Uf_ž'mci f'k f]hY'b'ZYXVUW'cb'hY'W'i fgY'jg'a cfY
ja dcfh'Ub'h'Ub'hY'Vcl Yg'mci 'h]W_ž'cf'hY'W'fWYg'mci 'W]W'cb'k]h'mci f'a ci gY"

Gi Va]gg]cb 'cZ5ggYgga YbhiHUg_g

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

Ʒmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b['hc'gi Va]hmc i f'Ugg][ba YbhiH'fci [\ 'Hi fb]h]bž'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'mYUfl" Ʒmci
UfY'i bUV'Y'hc'gi Va]hmc i f'Ugg][ba YbhiXi Y'hc'U'ZU' 'hk]H'Hi fb]h]b'mci 'a UmUdd'm'Zcf'Ub'YI HYbg]cbž'Vi hmc i
a i ghfYHU]b'mci f'h]W_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb['k]H'UbmcH'Yf'fY'Yj UbhXcW a YbHg'k'hc
]bWi XY'Ug'Yj]XYbVW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd'j]W]h]cb" Ʒmci 'Ya U]'9I HYfbU'Gi ddcfhmc i 'k]
Ui 'ca UH]WU'm'fYW]j Y'U'h]W_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY'mci 'k]'b'Y'YX'hc'gd'Y'W]Z]WU'mUg_ 'Zcf'cbY"
Hi fb]h]b'U'gc'dfcj]XYg'i dXUH'g'cb'H'Y]f'gmgh'Ya 'ghU'hi g'cb'Hk]H'Yf"

; YbYfU'mž'UggYgga YbhiHUg_g'a i ghVY'gi Va]H'YX'Y'Y'W'fcb]WU'mj]U'Y]H'Yf'Hi fb]h]b'cf'U'A ccX'Y
Ugg][ba YbH' 'b]bg]H'UbVW'g'k \YfY'H'g]g'bc]hd'cgg]V'Yž'hk]'VY'gh'UH'YX'cb'mci f'Wci fgY'g'A ccX'Y'g]H'k]H
U'HYfbUH] Y'gi Va]gg]cb'XYHU]g"

: cf]bZ'fa UH]cb'cb'\ck 'hc'gi Va]hUgg][ba YbHg'cb]bY j]U'A ccX'Y. \h'hdg.#gh XYbH'i bgk "YXi "Ui #ck!
gi Va]hUgg][ba YbH'a ccX'Y

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

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`_`Y`a` `U`b`m`
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f`]Y`g.

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci f'W'g'Dc`]W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dY'W'X'cZYj Yfmcby']b'h'Y'I BGK 'W'a a i b]m
- 'cW'W'h'gYfj]W'g'UbX'j]bZ'fa U]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k]''VY'ZJa]]Uf'hc'mci ž'c'h'Y'fg'k]''VY'bYk "; U]b]b['U'gc'X'i bXYfghUbx]b['cZU''h'Y fY'U'Y'X'UgdY'W'g'cZ9@-G9'k]''\Y'd'mci 'a U_Y'h'Y'a cgh'cZ'mci f'gh X]Yg'Uhl BGK ""

[\h'hd.##ji V'Y'W'i \]X'Y'g" \]V'f'U'f'm'i b'gk "Y'X'i "U'i #' \]g'Y'#J'V'c'i h' \]g'Y](#)

5 WUXYa]W**⊖**Zcfa Uh]cb

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