

ARTS3022

BUffUhjjY. H\Y`5fhUbX`GWybWY`cZGhcfmhY``]b[

GYa YghYf'C bY''#'&\$%

7 ci fgY⁻Cj Yfj]Yk

`GHJZZ`7cbHJWh`8YHJ]`g`

7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
5ggcŴUHY DfcZyggcf DUi ``8Ukgcb	dUi `"XUk gcb4 i bgk "YXi "Ui	-	fa `&% ž`YjY` &žK YVghYf 6i]`X]b[- ' ,) &&&\$

GWXcc``7cbHJWhi=bZcfaUh]cb

Fcca " &&ž`Yj Y`" FcVYfhK YVghYf6i]`X]b[

D\cbY.`f\$&Ł`-',)`(,)*

9a U]`. <u>gUa 4 i bgk "YXi "Ui</u>

K YVg]hY. <u>http://thtt</u>

H\Y'GW\cc``cZh\Y'5fhg'UbX'AYX]U'k ci `X``]_Y'hc'FYgdYWMZ ``m5W_bck `YX[Y'h\Y'HfUX]h]cbU``7i ghcX]Ubgž h\Y'6YXY[U``fPYbg]b[hcb'WJa di głž; UX][U``f7]hm'UbX'5fh/ '8Yg][b'7Ua di gYgŁ'UbX'h\Y'B[i bbUk U` dYcd'Y'fБi ghfU`]Ub'8YZYbWY': cfWY'5WJXYam']b'7UbVYffUŁ'cZh\Y``UbXg'k\YfY'YUW\'WJa di g'cZI_BGK ']g `cWJhYX"

5 HYbXUbW/FYei]fYaYbhg

5 'ghi XYbhi]g'Yl dYWYX'nc 'UhhYbX'U```WUgg'WcbhUWi\ci fg'Zcf'U'ZJWY!hc!ZJWY'fl & Ł'cf'V'YbXYX'Wci fgY'UbX Wca d'YhY'U``'UWfjj]hjYg'Zcf'U'V'YbXYX'cf'Z ``mcb`]bY'Wci fgY"

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

ZUʻghi XYbhYI dYf]YbWYgʻ]`bYggža]gUXj Ybhi fYʻcfʻch\YfʻcVWY ffYbWYʻh\Uha U_YgʻUVgYbWYʻZfcaʻU WUgg#UWfjj]hmi bUj c]XUV`Yžcf`YI dYWfgʻhc`VYʻUVgYbhZfcaʻUʻZcfh\Wća`]b[`WUgg#UWfjj]hmžh\Ymg\ci`XʻgYY_ dYfa]gg]cbʻZfcaʻh\Yʻ7 ci fgYʻ5i h\cf]hmžUbX`k \YfY`Udd`]WUV`Yžh\Y]f`fYei Yghg\ci`X`VY`UVWća dUb]YX`VmUb cf][]bU`cf`WYffjZJYX`WćdmicZUʻa YX]WU``WYffjZJWUHY`cf`ch\Yf`Zcfa`cZUddfcdf]UHY`Yj]XYbWY"

5 '7 ci fgY '5 i h\cf]hma UmYI W gY 'U'gh XYbhZrca 'WUggYgʻcf'UWf]]h]YgʻZcf'i d'hc'cbY'a cbh\"' < ck Yj Yfž'h\Ym a UmUgg][b'UXX]h]cbU``UbX#cf'U'hYfbUh]j Y'HUg_g'hc'Ybgi fY'Wca d`]UbW"'' 5 '7 ci fgY'5 i h\cf]hmWcbg]XYf]b['h\Y [fUbh]b['cZUVgYbW'a i ghVY'gUh]gZ]YX'U'gh XYbhk]``gh]``VY'UV'Y'hc'a YYhh\Y'Wci fgY'g``YUfb]b['ci H\car{yg} UbX#cf'j c`i a Y'cZ`YUfb]b["'5 'gh XYbhgYY_]b['Uddfcj U`'hc'VY'UVgYbhZcf'a cfY'h\Ub'cbY'a cbh\'a i ghUdd`m]b'k f]h]b['hc'h\Y'8YUb'UbX'dfcj]XY'U``cf][]bU`'cf'Wfh]Z]YX'gi ddcfh]b['XcW a YbhUh]cb"

: cf`a cfY`]bZcfa Uh]cb`UVci hh\Y`UhhYbXUbWY`dfchcWc`g`]b`h\Y`: UWV`hmcZ5fhg`UbX`GcW]U` GW]YbWYg.`<u>\hhdg.#k k k "Ufhg"i bgk "YXi "Ui #W`ffYbh!ghi XYbhg#UWUXYa]W]bZcfa Uh]cb#dfchcWc`g![i]XY`]bYg#</u>

7 ci fgY'8YHJ]`g 7 fYX]hDc]bhg'*' Gi a a UfmcZh\Y'7 ci fgY Gi VYWi5fYU.'5dV\$f[hWI df[`Y

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H\YcfYhJWU``WfJhJeiY`CF WfYUhJjY`YIdYfJaYbh	&\$1	&&#\$'#&\$%`%%\$\$`DA</td><td>' Ž(</td></tr></tbody></table>	

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GHUfh XUHY.

8YHU]`g. "\$\$\$`k cfXg"`H\]g`]g`h\Y`ZbU``UggYgga YbhHUg_"Bi a Yf]WU``a Uf_`UbX`UggYgga Ybhfi Vf]Wdfcj]XYX" K f]HYb`Wa a YbHUfmidfcj]XYX`k]h\`a Uf_YX`YggUmi]ZfYei YgHYX"

5ggYgga Ybh& == WUgg Hygh

GłUfhXUHY.

8YHU]`g. (\$`a]bi HY WcgYX Vcc_'HYgHA Uf_YX HYgHg fYH fbYX k]h. bi a Yf]WU``a Uf_žUggYgga Ybhfi Vf]WUbX Wca a YbHg"'@YWH fYf k]``U`gc dfcj]XY [YbYf'

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Ghi XYbhgʻUfYʻYI dYWhYXʻhcʻdi hih\Y]fʻbUa YgʻUbXʻghi XYbhibi a VYfgʻcbʻYj YfmdU[YʻcZh\Y]fʻUgg][ba Ybhgʻ

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

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UhYa dhjb['hc'gi Va]hmci f'Ugg][ba Ybhih\fci [\ 'Hi fb]hjbž'd'YUgY hY'Yd\cbY'9I hYfbU''Gi ddcfhicb'- ',) '' ' %cf'Ya U]`'h\Ya 'cb'<u>YI 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'mYUfŁ'' Zmci UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi `hk]h\ 'Hi fb]hjb'mci 'a UmUdd`m'Zcf'Ub'YI hYbg]cbž'Vi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU''Gi ddcfhfU'cb['k]h\ 'Ubmch\Yf'fY'Yj UbhXcW a YbhgEhc]bWi XY'Ug'Yj]XYbWY hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUh]cb'''Zmci 'Ya U]`'9I hYfbU''Gi ddcfhimci 'k]`` Ui hca UhjWU'`mfYWY]j Y'U'hjW_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k]``bYYX'hc'gdYWJZWU``mUg_'Zcf'cbY'' Hi fb]hjb'U`gc'dfcj]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUhi g'cb'Hk]hYf"

; YbYfU``mž'UggYgga YbhiHUg_g'a i ghVY'gi Va]HHXXYYWYfcb]WU``mj]U'Y]H\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ba Ybh''=b`]bgHUbWYg'k \YfY'H\]g']g'bchdcgg]V`Yž']hk]``VY'gHUHX'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 YbhDYbU`hJYg

5b'UggYggYX'HJg_']g'XYYa YX``UHY']Z]h']g'gi Va]HYX'UZhYf'H\Y'gdYW]ZJYX'Ha Y'UbX'XUHY'Ug'gYhici h']b'H\Y Wci fgY'@YUfb]b['A UbU[Ya Ybh'GmgHYa 'f@A GŁ''

H\Y``UhY`dYbU`hm`]g`h\Y``cgg`cZ)ı `cZh\Y`hchU``dcgg]V`Y`aUf_g`Zcf`h\Y`hUg_`Zcf`YUW\`XUmcf`dUfhih\YfYcZh\Y kcf_`]g``UhY"`@UhYbYgg`k]```]bWiXY`kYY_YbXg`UbX`diV`]W\c`]XUmg"`H\]g`XcYg`bch'Udd`mhc`U`hUg_`h\Uh`]g UggYggYX`Vihbc`aUf_`]g`UkUfXYX"

K cf_'gi Va]httX:Zci fhtYb`f%(EXUmg`UZhYf`h\Y`Xi Y`XUhY`k]``VY`a Uf_YX`UbX`ZYYXVUW_`dfcj]XYX`Vi hbc`a Uf_ k]``VY`fYWcfXYX''`=Zh\Y`k cf_`k ci `X`\Uj Y`fYWY]j YX`U`dUgg`a Uf_`Vi hZcf`h\Y``UhYbYgg`UbX`h\Y`k cf_`]g`U Wca di `gcfmWci fgY`Wca dcbYbhzU`gh XYbhk]``VY`XYYa YX`hc`\Uj Y`a Yhh\UhfYei]fYa Ybh'`H\]g`XcYg`bch Udd`mhc`U`hUg_`h\Uhi]g`UggYggYX`Vi hbc`a Uf_`]g`Uk UfXYX''

K cf_'gi Va]hhYX'lk YbhnicbY'f&%EXUmg'UZhYf'l\Y'Xi Y'XUhY'k]``bch'VY'UWWYdhYX'Zcf'a Uf_]b['cf'ZYYXVUW_ UbX'k]``fYWY]j Y'bc'a Uf_'cf'[fUXY"'=Zh\Y'UggYgga Ybh'lUg_']g'U'Wca di `gcfm'Wca dcbYbhcZh\Y'Wci fgY'U ghi XYbh'k]```Ui hca Uh]WU``m'ZU]`'h\Y'Wci fgY"

GdYWJU`7cbg]XYfUhjcb5dd`]WUhjcbg

 $\label{eq:milling} \end{tabular} Mci `WUb`Udd`millingYgdYWJU`Wcbg]XYfUh]cb`k \Yb`]``bYgg`cf`ch\Yf`WJfW a ghUbWfg`]bhYfZYfY`k]h\`mci f UggYgga YbhidYfZcfa UbWf"$

G]W_bYggža]gUXjYbhifY`cf`ch\Yf`W]fW a gHubWfg`VYmcbX`mcif`Wcbhfc``aUm

ł DfYj Ybhmci Zfca Wcad Yhjb[UWci fgY fYei]fYa Ybhž

ł? YYd mci Zfca UHYbX]b[UbUggYggUVYUW]j]mž

ł Ghod moi i gi Va]hh]b[iUggYggUV Y k of_Zof U Woi fgYž

ł `G][b]Z]WUbhmUZYWimci f`dYfZcfa UbWi`]b`UggYggUV`Y`k cf_žVY`]hU`Zcfa U``YbX!cZgYa YghYf`YI Ua]bUh]cbžU WUgg`hYghžU``UVcfUhcfmhYghžU`gYa]bUf`dfYgYbhUh]cb`cf`Ubmch\Yf`Zcfa `cZUggYgga Ybh'

: cf'2 fh\YfXYHU]`g`]b`fY`UH}cb`hc`GdYW}U``7 cbg]XYfUH}cb`]bWi X]b[```K \Yb`hc`5dd`m´ž`´< ck`hc`5dd`m´`UbX ~GiddcfHb[`8cWia YbHUH}cb´``d`YUgY`fYZYf`hc`h\Y`GdYW}U``7 cbg]XYfUH}cb`k YVgH}Y.` \hndg.##ghi XYbH'i bgk "YXi "Ui #gdYW}U`!Wcbg]XYfUH}cb

5WUXYa]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"`=hWUb`hU_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b[`hc`UWW]XYbhU``mWcdm]b[`Zca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh'

IBGK '[fcidg'd`U[]Uf]ga ']bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

7 cdm]b[..i g]b[.ih,Y`gUa Y`cf`j Yfmig]a]`Uf`k cfXg`hc`h,Y`cf][.]bU``hYI h`cf`]XYU`k]h\ci hUW_bck `YX[.]b[.ih,Y gci fWY`cf`i g]b[`ei chUh]cb`a Uf_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[.Ygž`Ufh`UbX`XYg][b`dfc`YWfgž`Ug`k Y```Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf`g`]XYUg`cf`k cfXg`k]h\ci hWfYX]h"

=bUddfcdf]UhY'dUfUd\fUg]b[.'W\Ub[]b['U'ZYk 'k cfXg'UbX'd\fUgYg'k \]Y'a cghmfYhU]b]b['h\Y'cf][]bU' ghfi Whi fY'UbX']bZcfa Uh]cb'k]h\ci hUW_bck `YX[Ya Ybh''H\]g'U`gc'Udd`]Yg']b'dfYgYbHUh]cbg'k \YfY'gca YcbY dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci hWfYX]h''=hU`gc'Udd`]Yg'hc'd]YW]b['hc[Yh\Yf'ei chYg'UbX dUfUd\fUgYg']bhc'U'bYk 'k \c`Yž'k]h\ci hfYZYfYbW]b['UbX'U'gh XYbhg'ck b'UbU`mg]g'hc'Vf]b['h\Y'a UhYf]U` hc[Yh\Yf''

7 c``i g]cb. 'k cf_]b['k]h 'ch Yfg'Vi hdUgg]b['cZh Y'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'Ubch Yf'gh XYbhVYZcfY'h Y'Xi Y'XUhYzcf'Zcf'h Y'di fdcgY'cZh Ya d`U[]Uf]g]b['UhUbmh]a Yž'dUm]b['Ubch Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa]WhUg_ž'ghYU`]b['cf'UWei]f]b[Ubch Yf'dYfgcb'g'UWUXYa]Wk cf_'UbX'Wcdm]b[']hz'cZYf]b['hc'Wca d`YhY'Ubch Yf'dYfgcb'g'k cf_'cf'gYY_]b[dUma YbhZcf'Wca d`Yh]b['UWUXYa]Wk cf_''

=ÐUddfcdf]UhY`W]hUh]cb. 7]h]b[`gci fWYg`k∖]WX`\Uj Y`bchVYYb`fYUXžk]h\ci hUW_bck`YX[]b[`h\Y`″gYWcbXUfm´ gci fWY`Zfca`k∖]W\`_bck`YX[Y`cZh\Ya`\Ug`VYYb`cVhU]bYX"

8id`]\WUh]cb`fl`gY`ZId`U[]Uf]ga "Ł`gi Va]hhjb[`mcif`ckb`kcf_ž`]b`k\c`Y`cf`]b`dUfhž`k\YfY`]h\Ug`dfYj]cig`m VYYb`dfYdUfYX`cf`gi Va]hhYX`Zcf`Ubch\Yf`UggYggaYbhcf`\\circf`Ucil BGK `cf`Ubch\Yf`ib]jYfg]hm"

7 cffYWhfYZYfYbW]b[dfUWf]WYg.

• VYHYfa UbU[Y'mcifh]a Y

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		>UaYg`D\Y`Ubž`"9ghfUb[]b[`LbfY`]UV]`]mž`6cbX]b[LbfY`]UV]`]mž`UbX`h\Y`9h\]Vg`cZ>a{ffS"
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		Acb]_U':`iXYfb]_ž"H\Y'@b[i]gh]W≕`ig]cb'cZ5`hYf]hm H\Y':fYY'⊕X]fYWhUg'DUfUX][a'cZ8]gWcifgY FYdfYgYbhUh cb"
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K YY_'" \$'5df]`!*AUm	n @YWhifY	A W9k Ub'g'3fa`W_Wf.Cab]gW]Ybhž'A YhUZ]Wh]cbU` UbX'I bfY`]UV`Y3 dWSV[`Ye >Ua Yg'D\Y`Ubž'"8Y`UmYX'8]gWcgi fY`UbX'h\Y DfcV`Ya`cZCh\Yf`A]bXg.'=Ub`A W9k Ub'g'3fa`W_Wf" Zfca`7j bWd[WU[`Y8[Uf[a` 6f]Ub`:]bbYmž"6f]cbmlg`GhUbX`5[U]bghiCV`]j]cb.`H\Y
		AU_]b[cZ:]₩jcb]b ⊎bAW9kUb'g3fa`W_Wf
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K YY_'%\$. '+ 'A Um'! '% A Um	@YWA fY	: JWJcbU`Jhm`BYJh\Yf`Hfi h\`bcf`@]Yg DWSV[`Ye

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-FZW>[h[`Y: S`VTaa] aX@SddSfa?aYk.`\hd.#kkk"`\b"ib]!\Ua Vif["XY

-`A UbZYX`>U\bz`@SddSfa^aYk, 3 9 g[VWfa fZWFZWadk aX@SddSf[hW`\htd.#k k k "i b]! _cY`b"XY#r Ua Y\$&#ddb"\ha

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

9UWX mYUfžfYUX]b['a UHYf]U`gʻUbX`dYXU[c[]WU``gHfUHY[]YgʻUfY`fYj]gYX`UgʻU`fYgi `hcZghi XYbhg'fYgdcbgYgž Ugʻ`cb['Ugʻh\YmUfY`Wcbg]XYfYX`UbX`dfcXi Whjj Y"`Ghi XYbhgʻUfY`YbWci fU[YX`hc`Wca a Ybh]bZcfa U``mcb`h\Y Wci fgY`h\fci [\ci hh\Y`gYa YgHYf"`H\Y`Zcfa U`ž'UbX`Ubcbma ci gž75H9=Yj U`i Uh]cb`dfcWYggʻUhH\Y`YbX`cZ gYa YgHYf`]gʻcZj]HU``]a dcfHUbWY`Zcf`h\Y`cb[c]b[`XYj Y`cda YbhicZh\]gʻWci fgY"

Bck 'h\Uhi75H9='Yj U`i Uh]cbg'UfY'WcbXi WhYX'cb`]bYžghi XYbhidUfh]W]dUh]cb'\Ug'XfcddYX'XfUa Uh]WU``mž fYgi `h]b[`]b'ZYYXVUW_'k \]V\`]g'ghUh]gh]WU``mi bfY`]UV`Y'': cf']bghUbWfž'k \Yb'cb`mU'ga U```dfcdcfh]cb'cZ ghi XYbhg'fYgdcbXž'cbY'X]ggUh]gZ]YX'ghi XYbhiWUb'Wcbgh]hi hY'&\$i__`cZh\Y'cj YfU```fYgdcbgY'''=hhYbXg'hc'VY'cb`m 7F=7CGDfcj]XYf7cXY.*\$\$\$-,;