ARTS2480

HYfa YX]UhY: fYbWX 5

HYfa H\fYY ## &$&$

7ci fgY˙Cj Yfj]Yk

GhUZZ˙7cbhUWh˙8YhU]`g

7cbj Ybcfg

B˙Ua˙Y	9a U]`	5j U]`UV]`]hm	@cWUh]cb	D\cbY
<i [i Yg˙DYhYfg	\"dYhYfg4 i bgk "YXi "Ui	Cb`]bY˙Vm Uddc]bhaYbh˙	A cfj Yb˙6fck b Vi]`X]b[žfcca &+)	$& -' ,) %(($

Hi hcfg

B˙Ua˙Y	9a U]`	5j U]`UV]`]hm	@cWUh]cb	D\cbY
A cb]ei Y˙@UifU	a "`Ui fU4 i bgk "YXi "Ui	6mUddc]bhaYbh	A cfj Yb˙6fck b Vi]`X]b[žfcca &++	$&˙-' ,) ˙! &' &%

GW\cc`˙7cbhUWh˙]bZcfa Uh]cb

GW\cc`˙cZ˙<i a Ub]h]Yg˙UbX˙@Ub[i U[Yg

@cWUh]cb.˙GW\cc`˙CZZ]WYžˁA cfj Yb˙6fck b˙6i ]`X]b[ž@Yj Y`˙&ž&),

CdYb]b[˙<ci fg.˙A cbXUm˙!˙: f]XUmž-Ua ˙!˙)da

D\cbY.˙Ž*%&˙-',) ˙%*, %

: Ul .˙Ž*%&˙-',) ˙, +$)

9a U]`.˙[\U`4 i bgk "YXi "Ui

7ci fgY 8YhU]`g

7fYX]h Dc]bhg ˙*˙

Gi a a Ufm cZ h\Y 7ci fgY

H\]g Wci fgY]g XYg][bYX Zcf ghiXYbhg k]h\ VUg]W _bck `YX[Y cZ: fYbW\ Yei ]j U`Ybh hc ˙k c ˙h\Yfa g#gYa YghYfg cZ ghiXm]b[˙h\Y `Ub[i U[Y Uhi b]b ]j Yfg]hm Yj Y˙"K ˙]h\ `U ˙Wca a i b]WUh]j Y ˙UbX Ug !VUgYX ˙UddfcUW\ hc Zcf Y][b `Ub[i U[Y YUfb]b[žmci ˙k]˙``YUfb hc ˙Wca a i b]WUhY]b ˙g a d ˙Y ˙UbX fci h]bY ˙Ug g ˙fYei]f]b[˙U ˙g a d ˙Y ˙UbX X]fYWh Yl W\Ub[Y cZ]bZcfa Uh]cb cb Za]`]Uf ˙UbX fci h]bYa UhhYfg" Mci ˙k ]˙˙XYj Ycd mci f˙`ghYb]b[˙UbX gdYU_]b[˙g_]˙`g Ug k Y˙`Ug mci f fYUX]b[˙UbX k f]h]b[˙g_]˙`g h\fci [\ j UfYX UWh]j ]hYg UbX hUg_g Xcb Y ]b ˙WUgg ˙UbX#cf dfYdUfYX Uh\ca Y" J cWUVi ˙UfmUbX [fUa a Uh]WU˙`ghfi Wh fYg UfY ˙dfYgYbhYX]b h\Y WcbhYlh cZ W˙h fU˙mfY˙Yj Ubh˙ggi Yg Zfca ˙: fUbW\ ˙cf˙h\Y ˙: fUbWcd\cbY k cfX"H\Y a YX]i a cZ]bghfi Wh]cb]g: fYbW\"

7ci fgY @YUfb]b[˙Ci hWca Yg

%" U bXYfghUbX UbX i gY k]h\ ˙WcbZ]XYbWY ˙ZYui Ybh mi gYX YldfYgg]cbg ˙b : fYbW\ k]W\ UfY fY˙UhYX hc UfYUg cZa cgh]a a YX]UhY fY˙j UbW

&" 7ca a i b]WUhY YZZYWh]j Y˙m]b : fYbW\ ]b Yj Yfm XUm hUg_g fYui]f]b[U g]a d˙Y UbX X]fYWh YlW\Ub[Y cZ]bZcfa Uh]cb

' " 8YgWf]VY]b : fYbW\ UgdYWhg cZ dYfgcbU˙VUW_[fci bXž]a a YX]UhY ˙Ybj]fcba Ybh˙UbX a UhhYfg]b UfYUg cZa a YX]UhY bYYX

(" 8Ya cbghfUhY ˙U ˙VUg]W Wi bXYfghUbX]b[˙cZgca Y ˙]b[i]gh]W UbX ˙W ˙h fU˙X]j Yfg]hm]bWi X]b[˙h\Y ˙j Uf]YX bUhi fY ˙cZh\Y ˙: fUbWcd\cbY k cfX

HYUW\]b[˙GhfUhY[]Yg

H\Y UddfcUW\ hc ˙h\Y ˙: fUbW\ ˙Ub[i U[Y]g ˙Wca a i b]WUh]j Y UbX hUg_-!VUgYXžk]W\ a YUbg h\Y Wci fgY ZcWi gYg cb h\Y ˙Ub[i U[Yž Wca a i b]WUh]j Y ˙ghfUhY[]Ygž UbX W ˙h fU˙ Z˙Wcfg]b XU]˙mdYfgcb-!hc dYfgcb]bhYfUW]cbž]b cfXYf hc ˙UWWca d ˙g\ ˙a YUb]b[˙˙˙Ug g ˙ H\]g]g UW]Yj YX h fci [\ ˙Wc˙`UVcfUh]j Y ˙YUff ]bhYfUW]cb UbX ]bW i g]j Y ˙hYUW\]b[ ˙ghfUhY[]Yg U ]a ]b[ Uhh\Y ]a dfcj Ya Ybh cZcfU˙UbX k f]hhYb ˙Zi YbmUbX UWWi fUWmžU˙`gi ddcfhYX Vm U˙j Uf]YhmcZUi h\Ybh]WX cWi a Ybhg UbX Uf]ci g a YX]U hc ˙bWfYUgY ghiXYbh ˙ghYb]b[˙UbX fYUX]b[˙Wca dfY\Ybg]cb g_]˙`g" H\Y ˙Ub[i U[Y cZ]bghfi Wh]cbžUggYgga Ybh UbX [YbYfU˙ Wca a i b]WUh]cb]g : fUbW\"": UWY!hc-!ZUWY ˙HYUW\]b[˙]g gi ddcfhYX UbX Yb\UbWYX Vm cb-!]bY ˙a UhYf]U˙g UbX UWh]j]h]Yg j]U h\Y cb]bY ˙d ˙Uhfca ˙fA ccXY˙h\ fci [\ ˙H9@H I BGK ˙; ˙UhYk UmŁ"

• ˙±b ˙YUW\ fYgžghiXYbhg ˙a U]b ˙mUfb ˙Uci h Wh ˙h fY ˙hc ˙fY ˙hcd]Wg ˙Zca ˙h\Y ˙: fUbW\ ˙gdYU_]b[˙k cfX fgu WW\ ˙Ug `]Zgh˙mY / gdcfgžcf gcWU˙UW]j ]ga ŁUbX h\Y j cWUVi ˙Ufm fY˙UhYX hc h\Y Z˙Xžg˙k Y ˙Ug Uci h [fUa a Uf hcd]Wg ftgi WW ˙Ug ˙bgYg cf ˙dfcbci bgŁ]b cfXYf hc XYj Y˙cd ˙UWWi fUWm]b ˙h\Y ˙Ub[i U[Y" Hc Z˙fh\Yf ˙h\Y ghiXYbh˙g YUfb]b[ ˙Yl dYf]YbWYžU˙`[fUa a Uf ˙YWh fYg k]˙`VY ˙dfY%

±b˙UXX]h|cb˙hc˙h\Y˙W˙Ugg˙UW j˙]h Ygž˙ghi XYbhg˙UfY˙Yl dYW Y X˙hc˙Xc˙k YY_˙m˙[fUa a Uf˙Yl YfW gYg˙UbX `˙ghYb]b[˙cf k f]h b[˙Yl YfW gYgž˙Ug˙k Y``˙Ug˙fY[i˙Uf˙df]j UhY˙ghi XmUbX˙fYj]g]cb˙Uh\ca Y˙cf˙]b˙h\Y˙a i `a˙a YX]U˙UfYU"
fK YY_˙mdfUW]WY˙UbX˙fYj]g]cb˙k]h\ h\Y˙Ui X]c˙UbX˙j]XYc˙a UhYf]U`˙UW ca dUbm]b[ ˙h\Y˙Wci fgY˙h Yl h Vcc__˙Ž˙h\Y cb`]bY˙Wcbh Ybhc Z˙h\Y˙Wci fgYŁ˙5 a]b]a i a ˙cZ) ˙\ci fg˙dYf˙k YY_˙cZ]bXYdYbXYbh k cf_]g˙Yl dYW Y X"˙F Y[i ˙Uf UW]j Y˙dfUW]WY˙UbX˙fYj]g]cb˙UfY˙YggYbh]U ˙`cf˙YZZYW]j Y˙dfc[fYgg]cb"

5ggYgga Ybh

HfUj Y `UffUb[ Ya Ybhg `a UXY `df]cf#UZh\Yf `h\Y `di V`]WUh]cb `cZ `h\]g `Wci fgY `cj Yfj]Yk `UfY `bch `U jU]X fYUgcb `Zcf `U `h\YfbUhY `UggYgga Ybh'

5ggYgga Ybh `HUg_g

5ggYgga Ybh `HUg_	K Y][\h	8i Y `8UhY	Gh XYbh @YUfb]b[Ci hWca Yg `5ggYggYX
HYgh `%	($ı	K YY_g `) `/ `%$ `Xi f]b[`bcfa U` h hcf]U` \ci fg	%ž&ž ž(
HYgh `&	($ı	&#%#&$&$ `fXi f]b[``YWhi fYŁ	%ž ž(
K YY_`mcb`]bY `YUfW]gYg	&$ı	K YY_g `&ž` ž(ž+	%ž(

5ggYgga Ybh `8YhU]`g

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**GhUfh `XUhY:** `Bch `5dd`]WUV`Y

8YhU]`g:

H\]g `UggYgga Ybh `k]``HU_Y `d`UWY `Xi f]b[ `h\Y `h hcf]U`g `]b `hk c `dUfhg" `±`cbY `gdYW]ZYX `k YY_ `gh XYbhg `Ubgk Yf Wca dfY\Ybg]cb `ei Ygh]cbg `cb `Ub `Ui X`cf#`]XYcŁ`XcWW a Ybh `fYUhYX `hc `h\Y `WcbhYbh `cZ `h\Y `Wci fgŽ `h\Y `hgh `Ugh]b[`WU" () `a]b/]b `Ubch\Yf `k YY_ `gh XYbhg `dfYdUfY `U `hcd]WWcZX]gW ggcb `fYUhYX `hc `h\Y `WcbhYbh `cZ `h\Y Wci fžUbX `X]gW gg]hcfU``mk]h `ch\Yfg `h XYbhgžh\Y `hgh `Ugh]b[`WU" () `a]b" `bWi X]b[ `dfYdUfUh]cb `h]a Y" H\Y `X]gW gg]cb `g `fYWcfXYX `Zcf `UWWi fUWmcZUggYgga Ybh'

: YYXVUW_ `cb ``ghYb]b[ `Wca dfY\Ybg]cb `j`U `WcffYWh]cb `cZ `h\Y `hgh `]b `WUggžUbX `bi a Yf]WU``[fUXY" : YYXVUW_ cb `cfU` `Yl dfYgg]cb `j`U `bi a Yf]WU``[fUXYžfi Vf]Wg `UbX `k f]hhYb `Wca a Ybhg"

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

@]ghYb]b[`hYghcb `%) `cf `%* #%#&$&$ `fk YY_ `) Ł UbX `gdYU_]b[ `hYghcb `%- `cf &$#%#&$&$ `fk YY_ `%$Ł `WcbXi WhYX Xi f]b[ `mci f `bcfa U` `h hcf]U` `\ci fg" H\Y `hYghg `k]``VY `XcbY `cb `]bY"

**Hi fb]h]b `gYhh]b[:** `H\]g `]g `bch `U `Hi fb]h]b `Ugg][ba Ybh

5ggYgga Ybh `& `HYgh `&

**GhUfh `XUhY:** `Bch `5dd`]WUV`Y

@Yb[h\: `7 U" `-$ `a]b"

8YhU]`g:

8i f]b[`h\Y ``YWhi fYgžgh XYbhg `Ubgk Yf `Wca dfY\Ybg]cb `ei Ygh]cbg `cb `U `k f]hhYb `hYl h `UbX `k f]hY `U `Wca dcg]hcb

f&$$!&)﹩k cfXgŁcbU﹒hcd]WfY﹒UhYX﹒hc﹒hY﹒WcbhYbh﹒cZhY﹒Wci fgYžhY﹒k \c﹒Y﹒hYgh﹒Ughjb[﹒WŁ"﹒-﹩a]b"

ÐX]j]Xi U﹒ZYYXVUW﹒j]U﹒bi a Yf]WŁ﹒[fUXYžŭi Vf]WUbX﹒k f]hYb﹒Wca a Ybhg﹒cb﹒Wca dcg]hjcb"﹒: YYXVUW﹒cb fYUX]b[﹒Wca dfY\Ybg]cb﹒j]U﹒WcffYWh]cb﹒]b﹒WUgg﹒UbX﹒bi a Yf]WŁ﹒[fUXY"

5XX]hjcbU﹒XYhU]﹒g.

F YUX]b[žk f]h]b[⁄ [fUa a Uf#﹐cWŁVi ﹒UfmhYghWcbXi WhYX﹒Xi f]b[﹒bcfma U﹒﹒YWhi fY﹒\ci fg﹒cb﹒&#%﹒#&$&$﹒fk YY_﹒, Ł"﹒H\Y﹒hYghk]﹒﹒VY﹒XcbY﹒cb﹒bY"

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

5ggYgga Ybh﹐ . ﹒K YY_﹒mcb﹒]bY﹒YI YfW]gYg

GhUfhXUhY . ﹒Bch﹒5dd﹒]WUV﹒Y

@Yb[h\ . ﹒7 U"%﹒\ci f﹒dYf﹒k YY_

8YhU]﹒g.

Ghi XYbhg﹒k]﹒﹒Wca d﹒YhY﹒k YY_﹒mdfYdUfUh]cbg﹒cb﹒Ui X]c!j]XYc﹒XcWŁa Ybhgžk f]hhYb﹒hYI hgžUbX#cf﹒jcWŁVi ﹒Ufm#[fUa a Uf﹒ei]nnYg﹒cb﹒A ccX﹒Y﹒f]%﹒\ci f﹒dYf﹒k YY_Ł"

: YYXVUW﹒k]﹒﹒VY﹒dfcj]XYX﹒j]U﹒gY﹒ZWcffYWhYX﹒YI YfW]gYg﹒cb﹒A ccX﹒Y"﹒; YbYfU﹒ZYYXVUW﹒dfcj]XYX﹒]b﹒WUgg"

5XX]hjcbU﹒XYhU]﹒g.

H\Y﹒[fUXYX﹒cb﹒]bY﹒ei]nnYg﹒UfY﹒Uj U]﹒UV﹒Y﹒cb﹒A ccX﹒Y"﹒9UW\﹒ei]n﹒k]﹒﹒VY﹒Uj U]﹒UV﹒Y﹒Zcf﹒h\Y﹒k \c﹒Y﹒cZh\Y﹒WcffYgdcbX]b[﹒k YY_﹒UbX﹒]hWUb﹒VY﹒UhYa dhYX﹒cb﹒mcbWŁ﹒UbX﹒k]﹒﹒VY﹒hja YX"

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

5hhYbXUbWY F Yei]fYa Ybhg

Ghi XYbhg UfY ghfcb[`mYbWci fU[YX hc UhhYbX U``WUggYg UbX fYj]Yk `YWhi fY fYWcfX]b[g"

7ci fgY GWXYXi `Y

J]Yk `WUgg ]a YhUV`Y

H]a YhUV`Y

8UhY	HmdY	7cbhYbh
C`K YY_`, `GYdhYa VYf`!-		

F Ygci fWYg

DfYgWf]VYX F Ygci fWYg

A ">"@cdYgž>"H"@Y'6ci [bYW'f&$%(Ł"HchYa '&!'a ÅH\cXY'XY'ŽUbÃU]g'5&"<UWXYHhY': @9"

A "'5bh]Yfž7"'6f]`UbhžG"'9f]WXžA ">"@cdYgž>"H"@Y'6ci [bYW'f&$%(Ł"HchYa '&!'WU\]Yf'XfUWM]j]hÅg"

5WUXYa]W<cbYghmUbX D`U[]Ufga

D`U[]Ufga ]g i g]b[ h\Y k cfXg cf ]XYUg cZ ch\Yfg UbX dfYgYbh]b[ h\Ya Ug mci f ck b"¬+h\Ub hU_Y a Ubm Zcfa gž Zfca XY`]VYfUhY W\YUh]b[hc UWW]XYbhU`m W cdm]b[ Zfca U gci fWY k ]h\ci h UW_bck`YX[Ya Ybh

I BGK `[ fci dg d`U[]Ufga]bhc h\Y Zc``ck]b[WUhY[cf]Yg.

- i bXYfgHUbX`mci f`f][\hg`UbX`fYgdcbg]V]`]h]Yg`Ug`U`ghXYbhUhl BGK

- VY`Uk UfY`cZd`U[ ]Uf]ga žWdmf][ \hž`l BGK `Ghi XYbh`7cXY`cZ7cbXiWhUbX`5WWdhUV`Y`l gY`cZ l BGK `=7H`F Ygci fWYg`Dc`]Wm

- VY`Uk UfY`cZh\Y`ghUbXUfXg`cZVY\Uj]ci f`YldYWhYX`cZYj YfmcbY`]b`h\Y`l BGK `Wca a i b]hm

- `cWUHY`gYfj]WYg`UbX`bZcfa Uh]cb`UVci h`l BGK `UbX`l BGK `@VfUfm

Gca Y`cZh\YgY`UfYUg`k]``VY`Za ]]Uf`hc`mci žch\Yfg`k ]``VY`bYk "; U]b]b[ `U`gc`]X`i bXYfghUbX]b[ `cZU``h\Y fY`UhYX`UgdYWhg`cZ9@G9`k ]``\Y`d`mci `a U_Y`h\Y`a cgh`cZmci f`ghi XYg`Uhl BGK "`
\hd.##gi `VYW`[i]XYg"`VfUfm`i bgk "YXi "Ui #Y`]gY#UVci hY`]gY