

EDST5106

6Y\Uj]ci f'A UbU[Ya YbhcZ9I Wdh]cbU`Gh XYbHg

HYTa Z&\$&%



7ci fgY`Cj Yfj]Yk

GHJZ7cbHJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]h]cb	D\cbY
HYffm7i a a]b[hW a a]b[4 i bgk "YXi "Uj	VmiUZ]b a]b	cfj Yg	

5W_bck`YX[Ya YbhcZ7ci blfm

I B G K `5fngž8Yg][b`UbX`5fWk]fYWhi fY? Ybg]b[hcb`UbX`DUXX]b[hcb`Wla di gYg`UfY`Vi]hcb`5Vcf][]bU`
@UbXg"K Y`dUmci f`fYgdYWhg`hc`hY`6]X}[U`UbX` ; UX][U`dYcd`Yg`k`c`UfY`hY`7i`gfcX]Ubg`cZ`hY`gY`UbXg"
K Y`UW_bck`YX[Y`hY`5Vcf][]bU`UbX`Hc`fYg`G`fU]h`g`UbXYf`dYcd`Ygž`hY` :]fgh5i`gfcU`]Ubgžk`c`gY`UbXgž
k]bXg`UbX`k`U`fYg`k`Y`U`bck`g`UfYž`UbX`dUm`fYgdYWhi`hc`hY`f`i`b]ei`Y`j`U`i`Ygž`UbX`hY`f`V`b`h`bi`]b[`UbX
YbXi`f]b[`W`h`fYg`k`\\]W`XYYdYb`UbX`Yb`f]W`hY`Z`cZci`f`b`U`h`cb`UbX`W`a`a`i`b`h`Yg`"

U[Y`W`ci`f`h`g`m`c`Z`h`Y`C`Z`W`c`Z`h`Y`D`f`c`J`]W`!`7`Ub`W`c`f`b`X][Ybci`g`[L`B`G`K`f`g`b`X\]\[Ybci`g`g`f`U`h`\[`m`](#)

) "&"&	Dfcj]XY`hja Y`mž`YZZWlj Yž`UbX`Uddfcdf]UHy`ZYXVUW`hc`ghi XYbHg`UVci h h.Y]f`UW\]Yj Ya YbhiY`Uhj Y`hc`h\Y]f`YUfb]b[`cU`g"	&ž'
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B Uh]cbU`Df]cf]hm5 fYU`9`UVcfUh]cbg

Df]cf]m 5 fYU			5 ggYgga YbHg
5	5Vcf][]bU`UbX`HcffYg`GhfU]h-g`UbXYf`9Xi WUh]cb) ž*ž+	&ž'
6	7`Uggfcca`A UbU[Ya Ybh	%ž`&ž' ž(ž)	%ž`&ž'
7	žZcfa Uh]cb`UbX`7ca a i b]WUh]cb`HYW\bc`c[m	%ž`&	%ž`&ž'
8	@]hfUWnUbX`Bi a YfUWn	%ž`&ž'	ž ; 3

GdYWZjW7 f]hYf]U

11 f]k ————— 2f]k

]b[i]gh]Ww]bj Ybh]cbg

- W]cbg]ghYbhi gY'cZ5D5' +h' YX" Zc'f'Zc'fa U]h]b[ž\YUX]b[gž W]h]cbgž'fY'Z'fYbW]g
- WUf]mž'W]cbg]ghYbW]h]UbX'Uddfcdf]U]h]bYgg'cZk f]h]b['W]cbj Ybh]cbg
- WUf]miUbX'W]cbg]ghYbW]h]b' h'Y' Zc'fa U]h]cZ h'Y' d'Ub
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		F YUX]b[g'UbX'fYgci fW'g. 'GYY'A ccX'Y
K YY_'.% 'C WcVYf! &&'C WcVYf	A cXi 'Y	: i bW]cbU`6Y\Uj]ci fU`5ggYgga Ybh` 8 UH'Wc`YW]cb.]a dcftUbW'ž Zcfa gžgWYXi `Ygž fY`]UV`]mž [fUd\]b[G]b[`Y'gi VYW'XYg][b F YUX]b[g'UbX'fYgci fW'g. 'GYY'A ccX'Y
K YY_+'.&)' 'C WcVYf! &- 'C WcVYf	A cXi 'Y	Di h]b[`]hU`'hc[Yh\Yf. '8Yg][b]b['U'6Y\Uj]ci fU` -hY'fj Ybh]cb'D`Ub F YUX]b[g'UbX'fYgci fW'g. 'GYY'A ccX'Y
K YY_'.%Bcj Ya VYf!) 'Bcj Ya VYf	A cXi 'Y	5XXfYgg]b['8]gfi dh] Y`UbX`BcbWca d`]Ubh 6Y\Uj]ci fg'fDUfh%& '5W]b['ci hW'WY \h'd.##f]g"dYUVcXm] UbXYfV]h'YXi #a cXi `Y#/%#XU` Yb[Y# WcbhYbh 5XXfYgg]b['8]gfi dh] Y`UbX`BcbWca d`]Ubh 6Y\Uj]ci fg'fDUfh&& '6Y\Uj]ci fU`-hY'fj Ybh]cbg \h'd.##f]g"dYUVcXm] UbXYfV]h'YXi #a cXi `Y#/&#XU` Yb[Y# WcbhYbh Bc`cb`]bY`YW'fY'h]g'k YY_
K YY_'.%Bcj Ya VYf! &'Bcj Ya VYf	A cXi 'Y	J c]W'g'Zca `h'Y`Z]Y`X!` ; i YghgdYU_Yfg 9Ufm7\]X\ccX`UbX`5Xc`YgWbh6Y\Uj]ci f -ggi Yg F YUX]b[g'UbX`F Ygci fW'g. 'gYY'A ccX'Y`
K YY_%.% 'Bcj Ya VYf! !'% 'Bcj Ya VYf	A cXi 'Y	7i `h' fU`mfYgdcbg] Y`VY\Uj]ci f'a UbU[Ya Ybh HfUi a U`]bZcfa YX'dfUW]W F YUX]b[g. 'gYY'A ccX'Y

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

8]gUV]`]mGHUbXUfXg`Zcf`9Xi WUhc b`f&\$\$) E`

7i@VZ]f] ž 3]SZ_ł ž è d]ł =ž: `c_Vd ž R_U adRXfVl <ž/\$" #' fž8f_TeZ_R] RddVdd^ V_eR_U
ac`XcR^ UVgV] a^ V_eWcac`S]V^ SVYRgZ fc/%dJ VUžžž eR^ Wdł 5 , 5V_XRXV >VRc_Z_Xž; 4@ž#%
+) *ž#ž\$*' ž) %&*žž-; 4@ #", #ž\$*' ž) %&*žž%fUj U]UV`Y`VmifYei Yghžca`I BGK`@]VfUfml

F YWca a YbXYX`F Ygci fWg

: i fhYf`F YUX]b[g

N]fdc`žH">"/`A Y`cmž? ">"f&\$\$) E`4VYRgZ c^ R_RXV^ V_e 3aa]žRžž_d Wcđ/RTYVd/` eY VUžžžI ddYf
GUXX`Y`F]j YfžB>.`DfYbh]W!<U`

5`VYfrcžD"5"ž/`Hfci ha Ubž5"7"i f&\$\$*E`3aa]žU SVYRgZ cR_R]j džd Wcđ/RTYVd/) eY VUžžžI ddYf`GUXX`Y
F]j YfžB>.`DYUfgcb`DfYbh]W!<U`

; c`Xgh]bž5"/`A W]bbb]gž9" f% - +E` \ž]deVR^ Z_X eY V RU`]VdTV_e @Vh deRđ/Xž/d R_U aVdaVTežžVd Wc
e/RTYZ_X ac`d`TžR] d\ž]d"7\Ua dU][bž @`F YgYUfW`DfYgg"

łł5`gh`XYbhg`UfY`YI dYWYX`hc`UWVWgg`h`Y`Wci fgYfg`A ccX`Y`g]hY`cb`U`fY[i`Uf`VUg]g`Zcf`Wci fgY
a Uhf]U`gž]bžcfa Uhc bžUbx`Ubbci bW`a Ybhg"

Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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

≠mci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UH`Ya` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`h`fci`[`\`Hi`fb]`h]b`z`d`Y`Ug`Y`
HY`Yd`l`cb`Y`9I`HY`fb`U`Gi`ddc`fh`cb`-`,`),`"`,`'`,`%`cf`Ya`U]`h`Ya`i`cb`YI`HY`fb`U`HY`hgi`ddc`fh`4`i`bgk`"YXi`"Ui`"Gi`ddc`fh`
l`ci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`i`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`i`cb`k`YY`YbXg`f`l`*)`XUmg`U`m`Y`Uf`l`"≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Z`Ji`h`k`]h`Hi`fb]`h]b`mci`i`a`Um`Udd`m`Z`f`Ub`YI`HY`bg]`cb`z`Vi`hmc`i`
a`i`gh`f`Y`h]`b`mci`f`h]`W`Y`hbi`a`VY`f`Z`ca`9I`HY`fb`U`Gi`ddc`fh`f`U`cb[`k`]h`Ub`m`c`h`Y`f`f`Y`Y`Ub`h`X`c`W`a`Y`b`h`g`k`h`c`
]b`Wi`XY`U`g`Y`j`]X`Y`b`W`h`c`gi`ddc`fh`mci`f`YI`HY`bg]`cb`Udd`]W`h]`cb`"≠mci`Ya`U]`9I`HY`fb`U`Gi`ddc`fh`mci`k`]`
Ui`h`ca`U`h]`W`U`m`f`Y`W`]`j`Y`U`h]`W`Y`hbi`a`VY`f`z`Vi`h]`Z`mci`HY`Yd`l`cb`Y`mci`k`]`b`Y`Y`X`h`c`gd`Y`W`Z`W`U`m`Ug`_`Z`f`c`b`Y`"
Hi`fb]`h]b`U`gc`d`fc`j`]X`Y`gi`d`X`U`h`Y`g`c`b`h`Y`]f`g`m`g`h`Ya`i`g`h`U`h`g`c`b`H`k`]`h`Y`f`"

;`Yb`Y`f`U`m`z`Ugg`Y`gga`Yb`hi`U`g`_`g`a`i`gh`V`Y`gi`Va`]h`Y`X`Y`Y`W`f`c`b]`W`U`m`j`]U`Y`]h`Y`f`Hi`fb]`h]b`c`f`U`A`cc`X`Y`
Ugg][`ba`Yb`h`i`h`]b`g`h`U`b`W`g`k` \Y`f`Y`h`l`g`]g`b`c`h`d`c`g`g]`V`Y`z`]`h`k`]`V`Y`g`h`U`h`X`c`b`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]`h`k`]`h`
U`h`Y`fb`U`h]`Y`gi`Va`]gg]`cb`X`Y`h]`g`"

:`cf`]b`Z`fa`U`h]`cb`c`b`l`ck`hc`gi`Va`]h`Ugg][`ba`Yb`h]`c`b`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`g`h`X`Y`b`h`i`bgk`"YXi`"Ui`#`ck`!
gi`Va`]h`Ugg][`ba`Yb`h`a`cc`X`Y`"

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

D`U[]Uf]ga `]g`i g]b[`h`Y`k cfXg`cf`]XYUg`cZc`h`Yfg`UbX`dFYgYbh]b[`h`Ya `Ug`mci f`ck b``#WU`b`hU`_Y`a`Ubm`
Zcfa gZ`Zca `XY`]VYfU`h`V`X`Y`U`h]b[`h`c`U`W`Y`X`Y`b`h`U`m`W`c`d`m]b[`Z`ca `U`gci f`W`k`]h`ci`h`U`W`_`b`c`k`Y`X[`Ya`Y`b`h`

I BGK `[fci dg`d`U[]Uf]ga `]b`h`c`h`Y`Z`c``ck]b[`W`U`h`Y[cf]Yg.

7cdm]b[.`I`g]b[`h`Y`g`Ua`Y`cf`j`Y`fmg]a`]U`f`k`cf`X`g`h`c`h`Y`cf][`]b`U`h`Y`h`cf`]X`Y`U`k`]h`ci`h`U`W`_`b`c`k`Y`X[`]b[`h`Y`
gci f`W`_`cf`i`g]b[`ei`c`h`U`h`c`b`a`U`f`_`g``H`g]b`W`i`X`Y`g`W`c`d`m]b[`a`U`h`f]U`g`Z`]X`Y`U`g`c`f`W`c`b`W`d`h`g`Z`ca`U`V`cc`_`Z`U`f`h]W`Y`Z`

