! ! ''#\$#%&'! (\$)&) (%'' ! "##"\$%& ' (&) *+",&

>\$.#K!\$%!6,#&-0\$#'A!3MM1RMD !3MMNR1221! ?).,#8.9A!W\$8,9.0,\$9'!?\$88,00&&A!122DR122F! ! >\$.#K!\$%!(#@'0&&'A!;,&9.!?\$**&+&A!3MNSR3MM1_!3MMFR1222_!122E5123N! 1 . / & -0, & + #) 10 + . / 2)! "#\$%&" '(') *\$+", - "#A!3MNFR1221! ! ! /K,0\$#A!3MMFR1221! C''\$-,.0&!/K,0\$#A!3MNFR3MM1! . '/012(\$'3\$425&'(-6\$7'6-2(\$%&'/)&5!!1232!51213! . '/012(\$'3\$8"26"\$219\$. /:5-6"\$75/9-":\$\$123\$!5! 4; <\$+": '/06":=\$P.**!123D!Z]@&'0!/K,0\$#[! 3(4(,(()C#0,-*&'!'@L8,00&K!0\$!%&''\$>11/2(\$\$%!0)&!;\$-,&0:!\$%!?)#,'0,.9!/0),-'_!4&/06&\$

?-:5'0*_!?'0-@'1:_\$A0-:&\$%&"'(')-62(\$B/205"'0(*C\$.20&D/6&\$3/0\$4&0-:5(-6&"\$ 7'@-2(#-::"1:6&235"1_\$.'/012(\$'3\$425&'(-6\$7'6-2(\$%&'/)&5C\$.'/012(\$'3\$./:5-6"\$219\$8"26"C\$.'/012(\$'3\$+"(-)-'/:\$E5&-6:C\$+"(-)-'1=\$7525"'\$F\$7'6-"5*C\$7'6-2(\$76-"16"\$F\$G"9-6-1"_! 75/9-":\$-1\$4&0-:5-21\$E5&-6:_!%&"'(')-62(\$75/9-":C\$%&"\$%&'`H-:5\$

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"&#'7&-0,I&'d!. //012(\$'3\$425&'(-6\$7'6-2(\$%&'/)&5!34Y3!ZO,90&#!123N[e!3RS36]

! SNG!c?.0)\$*,-!;\$-,.*!(&.-),9+A!/-\$9\$8,-!Q9&h@.*,0:!.9K!C8&#,-.9!;\$-,&0:d! .'/012(\$'3\$+"(-)-'/:\$E5&-6:!DFY1!ZU@9&A!12344[E+1NSRS32!

! SMG!c`.@K.0\$!;,i!,9!0)&!H9,0&K!;0.0&'e!J&%*&-0,\$9'!\$9!`\$I&A!?).#,0.L*&!O\$#<'A!.9K! ;\$-,.*!U@'0,-&d!.'/012(\$'3\$G'02(\$%&''(')*!MG3!Z1212[e!!M2R32SG!!Z-\$R.@0)\$#&K!^,0)!6.9,&*! 6,`&\$[!!Z)007'eYY1800'-)\$*.'0,-.)hG-\$8Y.#0,-*&Y31F2MR*.@K.0\$R',R,9R0)&R@9,0&KR'0.0&'R #&%*&-0,\$9'R\$9R*\$I&R-).#,0.L*&R^\$#<'R.9KR'\$-,.*R1@'0,-&[</pre>

D26!c=,#\$'),8.!.9K!W.+.'.<,e!F4!"!C99,I&#'.#:!J&%*&-0,\$9'd!>:-21\$?'0-@'1:!3DY1! ZU@9&A!1212[e!42FR41D!!

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*(, &0/&<+#2)

! 36!c''*@#.*,'8!,9!0)&!8\$#.*!&I.*@.0,\$9!\$%!^.#d!%&''\$G'15&!ZP&L#@.#:A!3MNS[e!!D1RDE!! Z-\$R.@0)\$#&K!^,0)!U\$'&7)!\6!T,	.9[!

16!!c?)@#-)&'i!?&90&#!J&'7\$9K'!0\$!?.0)\$*,-!>,')\$7'd!4-06/-5\$+-9"0!!ZU@9&A!3MN4[e!! NR32!!Z-\$90#,L@0\$#!0\$!+#\$@7!#&7\$#0[!

! S6!c; 0.#!O.#'e!; .%&0:!\$#!6.9+&#!C)&.Kjd!>H"0-62\$!ZW\$I&8L&#!1SA!3MN4[e!SD3R SD4!

DG!c = @8.9!J, +)0'A! / -\$9\$8, -'!.9K!0)&!(#,9,0:d!4'HH'1#''2(\$!ZB.#-)!3DA!3MNE[e!!]3SFR3D3!!Z-\$R.@0)\$#!^,0)!B,-).&*!UG!=,8&'[!]

46!c".-,%,'8!,9!0)&!?.0)\$*,-!?)@#-)d!%&"\$E6/H"1-:5!!ZB.#-)YC7#,*A!3MNF[e!!DDRDN!

3M6!f()&!Q9&b0#,-.L*&!`,9<!\$%!?).#,0:!.9K!6,'-,7*&'),7f!!*M0-)-1:*\$1E!ZP&L#@.#:!12A! 3MME[e!!4FSR4FN!

120!fO.#!>:!a0)&#!B&.9'f!!4'HH'1#"2(!ZP&L#@.#:!1NA!3MME[e!!3SR34!

130!fB,9,'0#:!,9!0)&!?@*0@#&!\$%!0)&!H9,0&K!;0.0&'f!*10216-:621\$R"29"0:&-K\$-1\$ G-1-:50**!;7,#,0!.9K!`,%&!F!Z3MMF[e!3FR1E!

!! 110!cO).0!n/87\$^&90i!B&.9'e!(\$^.#K!;&#I.90!P#,&9K'),7d!*M0-)-1:*!1N! Z3MMN[e!!1MFRS22!

1S6!c?.0)\$*,-!"\$*,0,-.*!J&'7\$9',L,*,0:!,9!(),'!(,8&!.9K!"*.-&d!!*M*0-)-*1*:!!1Me! Z1222[e!!E3DRE3F!

!! 1D0!c]*\$L.*,g.0,\$9i'!W&b0!").'&d!!*M*0-)-1:!S1!Z1221[e!3FA!3MR11!!

! 146!cC!U\$L!=.*%!6\$9&d!!P\$#&,+9!"\$*,-:!ZB.:RU@9&!1224[e!E4REE!

! J &7#,90&K!,9!>@*+.#,.9!&K,0,\$9!ZU@9&RU@*:!1224[e!S1RSS!

! 1EG!c (\$!09'7,#&!.9K! (\$!09\\$#8 d!>H"0-62!ZU@9&!EA!1224[e!FR32!

! 1FG!c?.9i0!C%%\$#K!.!\.-.0,\$9d!80"26&!ZC@+@'0A!122E[e!FRN!

1NG!c = . #K! k @&'0, \$9'!CL @0!U@'0!O . #d!>H''0-62!3M4!Z a - 0\$L&#!S2A!122E[e!3SR34!

! 1M6!c?.0, *,-!; \$-,.*!(&.-),9+!.9K!0)&!".#,')d!%'92*\:\$820-:&!SM!ZC7#,*YB.:A! 122F[e!3MR11!

! S26!c=&.*0)!?.#&!C--&''!%\$#!C**d!?"2(5&\$80')0"::!NN!ZB.:YU@9&!122F[e!!14R1M!

! S36!c?.0)\$*,-!()\$@+)0!\$9!0)&! B\$#.*!"#\$L*&8!\$%!O.#d!\$*T*':5'1\$4'((")"\$*R*2#\$ 76&''(\$*G*2)2@-1"\$Z;@88&#!122F[e!32A!SS!

! S16!cO)\$!O\$@*K!U&'@'!`\$I&j!?).#,0:!.9K!U@'0,-&!P\$#!C**d!%'92*\:\$820-:&!SM! ZW\$I&8L&#Y6&-&8L&#!122N[e!32R33!

! SS6!c420-52:\$-1\$^"0-525"!,9!0)&!H9,0&K!;0.0&'d!!*M*0-)-1:!D2Y1M!Z31Y1SY1232[e!!DFNR DN16!!!

! /b-F&K!.'!c>&9&K,-0i'!\,&^!\$%!0)&!"&#'\$9d!,9!6.9,&*!P,99A!&KG!%&"\$G'02(\$ N*12H-6:\$'3\$E6'1'H-6\$R-3''\$ZW&^!X\$#<e!ab%\$#K!H9,I&#',0:!"#&''A!1231[A!S3RSSG!

! SDG!c6,I,K&K!\$9!(\$#0@#&d!>H"0-62!ZC7#,*!3NA!1233[e!31R3E!

! S46!c`.!>,L*&!-\$88&!'\$@#-&!K&!*.!K\$-0#,9&!'\$-,.*&!K&!*i/+*,'&d!\$9!0)&!^&L',0&! 6\$-0#,9&!'\$-,.*&!K&!*i/+*,'&!-.0)\$*,h@&6!!CI.,*.L*&!.0e!Z)007e!Y^^^G-&#.'R S6!] &# .#K!P\$@#&gA!*R-D''025-'1\$E5&-6:*!Z(&87*&!H9,I&#',0:!''#&''A!3MN1[!,9!!25-'12(\$ 425&'(-6\$+''K'05''0\$Za-0\$L&#!34A!3MN1[e!!32!

DG! / K^ .#K!>.0-) &*\$#A!&KGA!>D '05- '1J\$\$5&"\$H '02(\$-::/":!Z",*+#, 8 !"#&' 'A!3MN1[!,9! ! 25- '12(\$425&'(-6\$+"K '05"0!ZU.9@.#:!13A!3MNS[e!!FG!

40! 6 \$9.*K!U\$9&'A!&KGA!*T/:-1''::=*\$+''(-)-'1\$219\$*E*5&-6:*J*\$\$*A*1*Q/-0**\$219\$''16'/15''0\$ Z a &*+&'-)*.+&#A!] @99!.9K!=.,9A!3MN1[!,9!*!*25-'12(\$425&'(-6\$+''K'05''0!ZU.9@.#:!1NA!3MNS[e!! 330!

EG!] @ '0. I\$!] @0,&##&gA!%& "\$8 ' # "0\$ '3\$5& "\$8 ' '0\$-1\$?-:5 '0*!Z a #L, '!>\$\$<'A!3MNS[! p ! U@#+&9! B \$*0 8 .99A!%& "\$8 ' # "0\$ '3\$5& "\$8 ' # "0("::!Z=.#7&#!.9K! J \$^A!3MNS[!,9! ! 25- '12(\$ 425& '(-6\$+ "K '05"0!ZU.9@.#:!12A!3MND[e!!3NR3MG!

FG!"),*,7!T&.9&A!4&0-:5-21\$E5&-6:\$219\$5&"\$AH2)-125-'1!Z".@*,'0!"#&''A!3MND[!,9! ! "#\$425&'(-6\$U'0(9\$11N!Z3MN4[e!!3N4R $136! >, **! = @\&L' -)\& > \$ + 29-62(\$P / -9''\$3' 0\$425\&'(-6:\$Z(^&90:R0), \#K!''@L*, -.0, \$9'\&! 3MM1[!,9! / '' \#\$\%\&'''(') *\$ + '', -'' \#!F!Z3MMD[e!!333R33S6!$

116!`.##:!J.'8@''&9A!*G'02(\$102)H"15:\$219\$G'02(\$4'HH/1-5*J\$\$2\$K0'K':2(\$3'0\$* 6&/06&\$-1\$:'6-"5*\$ZP\$#0&''!"#&''A!3MMS[!,9!%&"'(')-62(\$75/9-":!44!Z3MMD[e!!3NSR3NDG!

1S6!".@*,9@'!aK\$g\$#A!+-6&209\$G64 '0H-6S\$219\$5&"\$+"1"#2(\$'3\$G'02(\$%&"'(')*! ZH9,I&#',0:!\$%!W\$0#&!6.8&!"#&''A!3MM4[!,9!!"#\$%&"'(')*\$+",-"#!N!Z3MME[e!!313R3116!

1D6!T&99&0)!()\$87'\$9A!&KGA!G'02(\$*N*-*H*"1:-'1:\$'3\$>*H*"0-621\$*I*'0"-)1\$8'(-6*! Z(#.9'.-0,\$9!"#&''A!3MMD[!,9!.'/012(\$'3\$4&/06&\$219\$7525''!Z3MME[e!!EF2REF3!

146! 6 . I,K!/*<,9'A!*T*"*'19\$7', "0"-)15*J\$\$\$%"00-5'0*\$219\$8'(-5-62(\$E6'1'H*\$-1\$5&"\$ %#"15*a1-0:5\$4"'15/0*\$ZH9,I&#',0:!\$%!(\$#\$90\$!"#&''A!3MM4[!,9!%&"'(')-62(\$75/9-":!4F! Z3MME[e!!4FDR4F4!

1EG!U. 8 & '!; <,**&9A!%& ''\$76255''0''9\$^'-6''J\$\$4 &0-:5-21:\$25\$M99:\$-1\$5&''\$8/D(-6\$7Q/20''! Z?.9.K,.9!Q9'0,0@0&!\$\$#!`.^A!()&\$*\$+:!.9K!''@L*,-!''\$*,-:A!3MME[!,9!+''(-)-'/:\$75/9-'':\$ +'',-''#\$1\$!Z3MMF[e!!\$N2!

1F6!; 0&7) &9! O &LLA!%& "\$P-35-1) \$P '9J\$\$>\$%0-1-520-21\$E5&-6:\$ '3\$EV6"::!!Z a b%\$#K! H9, I&#',0:!''#&''A!3MME[!,9!%&'''(')-62(\$75/9-'':!4M!Z3MMN[e!3NER3NF!

1NG! O,**, . 8 !/ I&#&00A!+"(-)-'1=\$I"9"02(-:H=\$219\$5&"\$750/))("\$3'0\$8/D(-6\$R-3"! Z a b\$\$#K!H9,I&#',0:!"#&''A!3MMF[!,9!%&"'(')-62(\$75/9-":!E2!Z3MMM[e!!3MF!

1MG!U. 8 & ' ! B & +, I & #9A! % & " \$ N "25 & \$ 8 "12(5*J \$ > \$? -:5'0-62(\$ 219 \$ % & "'(')-62(\$ 7/0, "*! Z" . @*, '0! "# & ' A! 3MMF[!,9! / "# \$ % & "'(') * \$ + ", - "# ! 31! ZB . : A! 3MMM[e!NFRNN!

S26! J @ ' '&**! ? \$99\$#'!.9K!" .0#,-<! B - ? \$#8,-<\! 4 & 20265"0=\$4 & '-6":\$219\$4 'HH/1-5*! Z" . @*, '0!"#& ' \!3MMM[!,9! / "#\$%&" '(') *\$+",-"#!31!ZW\$IG!3MMM[e!NSRND!

S3G!?).#*&'!?@##.9A!%&''\$425&'(-6\$G'02(\$%029-5-'1\$%'92*J\$>\$7*15&'':-:!

Z] &\$#+&0\$^9!H9,I&#',0:!"#&''A!3MMM[!,9!?'0-@'1:\$1EY1!Z3MMM[e!SDMRS43!

S16!U.:!?\$##,9A!425&'(-6\$A15"(("65/2(:\$219\$5&"\$4&2(("1)"\$'3\$N"H'6026*!

ZH9, I&#', 0: !\$%!W\$0#&!6.8&!''#&''A!1221[!,9\$%&'''(')-62(\$75/9-'':!E4!Z122D[!3MSR3M4G! SS6! J \$+&#!C@L�A!425&'(-6\$7'6-2(\$%''26&-1)J\$>1\$?-:5'0-62(\$8''0:K''65-, "\$

ZB.#h@&00&!H9,I&#',0:!''#&''A!122S[!,9!%&'''(')-62(\$75/9-'':!EE!Z1224[e!11MR1S26!

SD6!C*&b.9K&#!O&L'0&H!.9K!6.##&**!?\$*&A!%&''\$^-05/''\$'3\$U20J\$+''6(2-H-1)\$5&''\$ 4(2::-6\$4&0-:5-21\$%029-5-'1:\$E2:5\$219\$U'':5\$ZJ&+,9.!a#0)\$K\$b!''#&''A!122D[!,9\$.'/012(\$'3\$ 4&/06&\$219\$7525''!DF!Z1224[e!D3DRD34!

 $\begin{aligned} & S46! B . #: !U\$! > .9\&A! > #\&90! ? \$\%\%, 9! .9K! J, -) . #K! = ,++, 9'A!\&K'6!\%2S-1)\$12-5\&\$7''0-'/:(*6!!! \\ Z = .#I . #K!H9, I&#', 0: !'' #&''!1224[!,9!. '/012(\$'3\$R2 \#\$219\$+''(-)-'1!13!Z122E[e!3N3R3ND!!] \\ & SE6! B . #+ . #&0! a i > #,&9!; 0&, 9\%\&*'A!\&KGA\$ > H''0-621\$425\&'(-6::=\$ > H''0-621\$4/(5/0''J\$\$) \end{aligned}$

D26!?.#'0&9!;0.)9!.9K!U.99!T*&%%9&#A!&K'GA!./:\$8':5\$T''((/HJ\$%'#209:\$2\$R2#\$'3\$ %021:-5-'1\$10'H\$4'13(-65\$5'\$8"26"\$b(B?!C''&#!''#&''A!122N[!,9!?/H21\$+-)&5:\$+",-"#!33! Z1232[e!34\$R34D_!K\$,e!326322FY'313D1R22MR23\$3R4!

 $D30! B.00) \&^{1}; ... K*\&A!\% \&'' \&M0-)-1: \&'3 U20!Z] \& \#+\&0 &^9!H9, I \& \#', 0: !'' \# \&'' A!1233[!,9! > H''0-62!124 Y34!ZW & I \& & L \& \#!3DA!1233[e!1SR14!]$

D16!6.9,&*!J\$0)L.#0!.9K!T.#,9.!T\$#\$'0&*,9.A!*U*&*\$%&"*\$*N*-"<u>!</u>ZH9,I&#',0:!\$%! B,-),+.9!"#&''A!1233[!,9!.'/*012(\$'3\$8"26"\$219\$./:5-6"\$75/9-":*!11Y3!Z;7#,9+A!1231[e!3D2R 3DS!

DSG!C*L,9\$!>.##&#.A!

?.0)\$*,-!;\$-,.*!(&.-),9+!.9K!H6;6!"@L*,-!"\$*,-:!Z'@ 8 8&#[! 6&I&*\$7 8&90!\$%!"#\$0&'0.90!/0),-.*!()\$@+)0! /0),-'!\$%!T,**,9+! =,'0\$#:!\$%!?.0)\$*,-!;\$-,.*!()\$@+)0! 090#\$K@-0,\$9!0\$!B\$#.*!()&\$*\$+:! T,9+K\$ 8!\$%!]\$K!,9!()&\$*\$+:! T,9+K\$ 8!\$%!]\$K!,9!()&\$*\$+:!.9K!/0),-'!Z0&. 8!0.@+)0[! `,L&#.0,\$9!()&\$*\$+:!Z0&. 8!0.@+)0[! B.#b,'8!.9K!?)#,'0,.9,0:!Z0&. 8!0.@+)0[!! B\$#.*!0''@&'!,9!O.#A!"&.-&!.9K!6,'.#8.8&90!

102-06)>0##(A()

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- ! /0),-'!,9!O.#!.9K!"&.-&!Z]#.K[!
- ! B \$K	!?.0)\$*,-!;\$-,.*!(&.-),9+! B \$#.*!6,8&9',\$9!\$%!0)&!?)#,'0,.9!`,%&! "&#'\$9!.9K!;\$-,.*!J&'7\$9',L,*,0:!0!.9K!00!Z"@*'&!7#\$+#.8[! C 8 &#,-.9!?.0)\$*,-,'8!.9K!;\$-,.*!J&%\$#8!Z]#.K[!
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cU\$)9!J:.9!\$9!09&h@.*,0:e!?&,*,9+'!.9K!O&**!.'!P*\$\$"'!,9!?.0)\$*,-!;\$-,.*! (&.-),9+Ad!!>\$'0\$9!?\$*&+&A!!?\$9&%&**!.*!P*\$\$"'!,9!?.0)&!0&7*,-.0,\$9'!\$'! (&.-),9+Ad!!>\$'0\$9!?\$*&+&A!!?\$9%&**!.*!P*\$

c;7,#,0@.*,0:!.9K!0)&!B\$#.*!`,%&Ad!B'+#!()\$8.'!6.,*:!B&8\$#,.*!`&-0@#&A!?)#,'0! 0)&!T,9+!;&8,9.#:A!!>@%%.*\$A!WXA!a-0\$L&#! !

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! c / 87\$^&90e!!?.0)\$*,-!?).#,0,&'!;0:*&d!!T&:9\$0&!CKK#&''A!?.0)\$*,-!?).#,0,&'! H;C!C99@.*!?\$9I&90,\$9A!!=\$@0'0\$9A!(m!!!;&70&8L&#!

f()&!B\$#.*,0:!\$%!/-\$9\$8,-!;.9-0,\$9'f!!C99@.*!B&&0,9+!\$%!0)&!H0;6!?.0)\$*,-! ?\$9%&#&9-&!a%%,-&!\$%!;\$-,.*!6&I&*\$78&90!.9K!O\$#*K!"&.-&A!!O.'),9+0\$9A!6?!!!P&L#@.#:! 3MMF!

 $f = \$^{B} @_{-}!0! (1/9\$@_{+}) j!! (1) \& \$^{+}, -. *! J \& \%^{*} & -0, \$9'!\$9! O \& .*0) f!; @77*\&!^{\&-0@\#\&A!} \\ 0\$^{.}!; 0.0\&!H9, I\&^{\#}, 0:A!!C 8 \&'A!!OC!!! a -0\$L\&^{\#}!$

f() & \$*\$+,-.*!; \$@#-&'!\$%!?.0) \$*,-!; \$-,.*!(&.-),9+f!!C99@.*!O \$#<') \$7!%\$#! 6,\$-&'.9!; \$-,.*!C-0,\$9!6,#&-0\$#'A!!?),-.+\$A!Q`!!!U@*:!

! f?.0)\$*,-!=\$'7,0.*'!.9K!;\$-,.*!J&'7\$9',L,*,0:f!!?&90&#!%\$#!?*,9,-.*!>,\$&0),-'A!]&\$#+&0\$^9!H9,I&#',0:A!!O.'),9+0\$9A!6?!!!U@9&!

fH9,0,9+!P.,0)!.9K!O\$#<7*.-&f!".-&8!,9!(&##,'!;\$-,&0:A!H9,0&K!W.0,\$9'A!W&^! X\$#<!!!B.:!

f()&!".#,')!.9K!0)&!"@L*,-!; h@.#&f!\,9-&90,.9!Q9'0,0@0&!%\$#!?)@#-)!.9K!;\$-,&0:A!; 0G!U\$)9\'!H9,I&#',0:A!U.8.,-.A!WX!!!C7#,*!

f?.0)\$*,-!()&\$*\$+:!.9K!/9I,#\$98&90.*!C^.#&9&''f!!?\$9I\$-.0,\$9!\$%!W.0,\$9.*! /9I,#\$98&90.*!a#+.9,g.0,\$9'A!T.*.8.g\$\$A!B0!!!C7#,*!

f?.0)\$*,-!()&\$*\$+:!.9K!"\$*,0,-.*!C-0,I,'8Af!!J\$@9K0.L*&!?\$9I&90,\$9!\$%!6,\$-&'.9! ;\$-,.*!C-0,\$9!6,#&-0\$#'A!O.'),9+0\$9A!6?!!!P&L#@.#:!

fQ88,+#.0,\$9!.9K!?.0)\$*,-!;\$-,.*!(&.-),9+Af!!!P\$#K).8!H9,I&#',0:A!W&^!X\$#<A! WX!!!P&L#@.#:!

f()&!J\$*&!\$%!?).#,0:!,9!C8&#,-.9!?.0)\$*,-,'8Af!!;06!U\$)9V'!H9,I&#',0:A!U.8.,-.A! WX!!!U.9@.#:!!

3MME!

f?.0)\$*,-,'8!.9K!?#,','!\$%!C8&#,-.9!6&8\$-#.-:Af!!;06!U\$)9\''!H9,I&#',0:A! U.8.,-.A!WX!!!a-0\$L&#!

! f?.0)\$*,-,'8!.9K!"\$*,0,-.*!`,%&Af!!;0G!U\$)9\'!?\$**&+&!!?\$**&+&I,**&A!BW!!! ;&70&8L&#!

! f?.0)\$*,-,'8!.9K!0)&!?#,','!\$%!C8&#,-.9!6&8\$-#.-:Af!H9,I&#',0:!\$%!6.:0\$9!!!U@*:! ! f?.0)\$*,-!;\$-,.*!(&.-),9+!\$9!0)&!;0.0&f!!H0;6!?.0)\$*,-!?\$9%&#&9-&!;&8,9.#!\$9! /9I,#\$98&90.*!U@'0,-&A!!!?\$**&+&I,**&A!BW!!U@9&!

fP\$#8.0,\$9!\$%!?\$9'-,&9-&!,9!X\$@9+!CK@*0'f!!P#.9<!`&^,'!P\$@9K.0,\$9!%\$#! ?.0)\$*,-!?.87@'!B.9,'0&#'A!!>\$'0\$9A!BC!!!U@9&!

! fP,9.9-,.*!;0&^.#K'),7e!!J&%*&-0,\$9'!%#\$8!0)&!"&#'7&-0,I&!\$%!?.0)\$*,-!;\$-,.*! (&.-),9+f!!?.0)\$*,-!()&\$*\$+,-.*!H9,\$9Y`,**:!P\$@9K.0,\$9!?\$9%&#&9-&!\$9!;0&^.#K'),7A! ?),-.+\$A!Q`!!!B.#-)!

f()&\$*\$+,-.*!6,8&9',\$9'!\$%!"@L*,-!/0),-'Af!!"*&9.#:!;&'',\$9A!;\$-,&0:!\$%!?)#,'0,.9! /0),-'A!C*L@#h@&#h@&A!WB!!U.9@.#:!

3MM4!

f?)#,'0,.9!?,0,g&9'),7!.9K!C8&#,-.9!6&8\$-#.-:f!!P.-@*0:!6&I&*\$78&90! "#\$+#.8A!;00!C9'&*8\'!?\$**&+&A!B.9-)&'0&#A!W=!!!C@+@'0!

f()&!?)@#-)!,9!0)&!B\$K	!O\$#*Ke!!.!(),#0:RX&.#!"&#'7&-0,I&f!O\$\$K'0\$-<! P\$#@8A!]&\$#+&0\$^9!H9,I&#',0:!!!B.:! f()&!H9,0&K!W.0,\$9'!.9K!0)&!/9I,#\$98&90e!!.!P#.9-,'-.9!"&#'7&-0,I&f!!".-&8!,9! (&##,'!;\$-,&0:A!H9,0&K!W.0,\$9'A!W&^!X\$#<!!!B.#-)!

 $f()\&!;\$-,.*!6,8\&9',\$9'!\$\&!P.8,*:!`,\%\&e!!.!?.0)\$*,-! \land 7\$,90f!6,\$-\&'.9! / K@-.0,\$9!?\$9\%\&#\&9-\&A!=\$@'0\$9A! (m!!P&L#@.#:!$

f()&!B\$#.*,0:!\$%!?.7,0.*!"@9,')8&90f!!;,&9.!?\$**&+&!P&L#@.#:!

3MMD!

! O \$#<') \$7!\$9!?.0) \$*,-!; \$-,.*!() \$@+) 0A!?.0) \$*,-!() & \$*\$+,-.*!; \$-,&0: !\$%!C 8 & #,-.A! >.*0, 8 \$#&A! B 6 !!U@9&!

! c; \$-,.*!U@'0,-&!.9K!".#,')!B,9,'0#:Ad!?*&#+:!/K@-.0,\$9!"#\$+#.8A!6,\$-&'&!\$%! (#&90\$9A!WU!!!C7#,*!

! c/0),-'!\$%!Q90&#I&90,\$9Ad!C99@.*!B&&0,9+!\$%!H;??!6&7.#08&90!\$%!;\$-,.*! 6&I&*\$78&90!.9K!O\$#*K!"&.-&A!O.'),9+0\$9A!6?!!B.#-)!

B,KRC0*.90,-!J&+,\$9.*!B&&0,9+!\$%!6,\$-&'.9!a%%,-&#'!\$%!J&*,+,\$@'!/K@-.0,\$9A! O.'),9+0\$9A!6?!!!P&L#@.#:!

3MMS!

! cP\$#8.0,\$9!\$%!?\$9'-,&9-&!,9!X\$@0)d!B&&0,9+!\$%!6,#&-0\$#'!\$%!X\$@0)!B,9,'0#:A! 6,\$-&'&!\$%!J.*&,+)A!W?!W\$I&8L&#!

! cP\$@9K.0,\$9.*!B\$#.*,0:Ad!\,K&\$!`&-0@#&!;&#,&'!\$9!?.0)\$*,-!B\$#.*!()&\$*\$+:A! 6,\$-&'&!\$%!J.*&,+)A!W?!!!!W\$I&8L&#!

! c'', 0, -'!.9K!0, 2)@#-, d! B & 0, 9+!, C#-, $K, -&'.9!^&+, '*.0, I & W&0^$#<A! C#-$, K, -&'&!, $W&0^$H<A!$

c()&!J&*.0,\$9'),7!\$%!U@'0,-&!0\$!?).#,0:Ad!6,\$-&'.9!?\$9I\$-.0,\$9!\$%!?.0)

?).#,0,&'A!6,\$-!ETQn(?).)0*0.2(\$@2(')-030.1200(()JETQq0.1200.1200(?).)0!?(?).)0,)0.2(--)0.2.2((\$

! f=&.*0)!? .#&!.9K!; \$-,.*!U@'0,-&f!!?.0)\$*,-!=&.*0)!C''\$-,.0,\$9A!C99@.*! ?\$9I&90,\$9A!O.'),9+0\$9A!6?!!U@9&!

! f()&!a70,\$9!%\$#!0)&!"\$\$#!,9!`,L&#.0,\$9!()&\$*\$+:f!!>\$'0\$9!?\$**&+&!=,+)!;-)\$\$*! >\$'0\$9!BC!!P&L#@.#:!

123D!

! f()&!?\$99&-0,\$9!>&0^&&9!B\$#.*,0:!.9K!;7,#,0@.*,0:f!!;00!C90)\$9:Y;00!".0#,-<! CK@*0!/K@-.0,\$9!?&90&#A!=.#0%\$#KA!?(!!a-0\$L&#!

 $c()\&!"\${\text{He}}O).0!6,K!U\&'@'!"{\text{He}}.-)j!O).0!6$\&'!0)\&!?)@{\text{He}}(\&.-)jd!!>$'0$9!?$

123S!

! fC 8 &#, -.9!?.0) \$*, -, '8!.9K!"@L*, -!`, %&f!!; 06!C90) \$9:Y; 06!".0#, -<!CK@*0!/K@-.0, \$9!? &90&#A! = .#0%\$#KA!? (A!! a -0\$L&#!

1233!

! ".9&*,'0A!cQ90&##\$+.0,\$9!"\$*,-:!C%0&#!a'.8.!>,9!`.K&9d!!>\$,',!?&90&#A!>\$'0\$9! ?\$**&+&A!!;&70&8L&#!

! c6,.*\$+@&!.9K!0)&!?.0)\$*,-!Q90&**&-0@.*!(#.K,0,\$9d!!?\$9%&#&9-&!\$%!;0@K&90!C%%.,#'! "&#'\$99&*!.0!?.0)\$*,-!?\$**&+&'A!!>\$'0\$9!?\$**&+&A!!U@*:!

122M!

! $c(\#0@\#\&e!Q'!Q0!C^*^ : : '!O\#\$9+jd!!>\$, ', !?\&90\&\#A!>\$'0\$9!?\$^*\&+\&A!?)\&'09@0!=,**A!BC!!$ W\$I&8L&#!

! c?).#.-0&#!.9K!?\$9I&#',\$9d!!B.''.-)@'&00'!?\$9%&#&9-&!\$%!?.0)\$*,-!"#,'\$9! ?).7*..9'A!!O\$#-&'0&#A!BC!!a-0\$L&#!

! ? .0) \$*,-! B \$#.*! () & \$*\$+:! (\$K.:d!1D!*&-0@#&'YN! ? 6!'&0!ZW\$^!X\$@!T9\$^! B & K, .[A! J \$-<I,**&A! B 6!! B .:!!

122N!

! ".9&*, '0A!cC8&#, -.9!?.0)\$*, -'!.9K!/*&-0\$#.*!"\$*,0, -'!,9!.9!/*&-0,\$9!X&.#d!!W&^! /9+*.9K!"\$*,0, -.*!; -,&9-&!C''\$-,.0,\$9A!!"#\$I,K&9-&A!J0!!!C7#,*!

122F!

! cO\$#<,9+!%\$#!"&.-&d!!?\$9%&#&9-&!\$9!?.0)\$*,-,'8!.9K!C8&#,-.9!"@L*,-!`,%&A! T.9'.'!?,0:A!Ba!!!U@9&!

122E!

! c()&!QK&90,0:!.9K!;7,#,0@.*,0:!\$%!0)&!B,9,'0&#!(\$K.:d!!O&'0\$9!U&'@,0!;-)\$\$*!\$%! ()&\$*\$+:A!?.8L#,K+&A!BC!!!;&70&8L&#!

1224!

! c?.0 \$*,-!; \$-,.*! (&.-),9+!.9K!/9I,#\$98&90.*!U@'0,-&Ad!6,\$-&'&!\$%!; 0\$-<0\$9A!?C!! a -0\$L&#!

 $\begin{array}{l} c'' \& \#' \$ 9 . \$! ? \$ 9' - \& 9 - \& ! . 9 K! 0 \& ! (\& . -), 9 + ! C @ 0) \$ \#, 0 : ! \$ \%! 0 \& ! ? . 0) \$ *, -! ?) @ \# -) d! \\] \& 9 \& \# . \$! C'' \& 8 L \ast : ! \$ \%! ; , '0 \& \#' ! \$ \%! ; 0 @ ! P \# . 9 - , 'A!! W \& @ 8 . 9! ? \$ * \& & + \& A!'') , \ast . K \& ^ 7) , . A!'' C!! U @ 9 \& ! \\ ! c() \& ! / 0), - '! \$ \%! O . \#! . 9 K!'' \& . - \& !, 9! ? . 0) \$ *, -! (\& . -), 9 + Ad! P \# . 9 - , ' - . 9! J \& 9 \& ^ . *! ? \& 90 \& \# A!! \\ = . \# 0 \% \$ \# K A! ? (A!! B . : ! \\ \end{array}$

122D! !

! c()&!?)@#-)i'!;, *! B,9,'0#: Ad! 6,\$-&'&!\$%!; .+,9. ^A! B(!! a -0\$L&#!

! c()&!?.0)\$*, -!(#.K,0,\$9!.9K!;\$-,.*!091\$*1&8&90d!>#&.K!%\$#!0)&!O\$#*K!(#.,9,9+!;&8,9.#A!!O.'),9+0\$9A!6?!!0@9&!

!! cP.,0)%@*!?,0,g&9'),7e!!?.0)\$*,-'!.9K!"\$*,0,-.*!J&'7\$9',L,*,0:!,9!.9!/*&-0,\$9!X&.#! dW.0,\$9.*!?.0)\$*,-!/K@-.0,\$9!C''\$-,.0,\$9!?\$9I&90,\$9A!!>\$'0\$9A!BC!!C7#,*!

122S!

! cB\$#.*!"#,9-,7*&'!.9K!W.0,\$9.*!;&-@#,0:d!B-?\$#8,-<!`&-0@#&'A!?\$#7@'!?)#,'0,! H9,I&#',0:!".#,')A!!(\$*&K\$A!! a =!!!W\$I&8L&!!

! !c()&!P\$@9K.0,\$9'!\$%!?.0)\$*,-!;\$-,.*!(&.-),9+d!W&^8.9!`&-0@#&'A!?).7&*!=,**A! W?!!W\$I&8L&#!

! cB\$#.*!()&\$*\$+:!,9!0)&!=&.K*,9&'d!(#,9,0:!?)@#-)!CK@*0!/K@-.0,\$9!;&#,&'A! O.'),9+0\$9A!6?!!;&70&8L&#!

! $c()\&!;\$-,.*!?\$90\&b0!\$\%!0)\&! \ \$^!\$1\&\#0:d!!J\&*,+,\$@'!P\$\#8.0,\$9!?\$9\%\&\#\&9-\&A! O.'),9+0\$9A!6?!!P\&L#@.#:!$

1221!

! cC!?\$90&87\$#.#:!H9K&#'0.9K,9+!\$%!?.0)\$*,-!B\$#.*!()&\$*\$+:d!?\$90,9@,9+!

! c?.0)\$*,-!;\$-,.*!(&.-),9+!(\$K.:d!!C#-)K,\$-&'.9!X\$@9+!CK@*0!?\$9%&#&9-&A! ?.0)\$*,-!H9,I&#',0:A!O.'),9+0\$9A!6?!!!B.:!

3MMN!

A! cC 8 &#, - .9!?.0) \$*, - '!.9K!?.0) \$*, -!Q9'0,0@0,\$9'd!!C99@.*!/0), - '!6,99&#A!=\$*:! ?#\$''!=\$'7,0.*A!;,*I&#!;7#,9+A!B6!!U@9&!

! f6&I&*\$78&90'!,9!?.0)\$*,-!B\$#.*!(&.-),9+f!!B&&0,9+!\$%!?.0)\$*,-!?).7*.,9'!,9! 0)&!C#8&K!P\$#-&'A!P\$#0!B:&#A!C#*,9+0\$9A!\C!!!B.#-)!

3MME!

! **fB**.*&!**J**&*,+,\$@'!.9K!0)&!**B**,9,'0#:!\$%!U@'0,-&!.9K!''&.-&e!!.!0),#0:!:&.#!7&#'7&-0,**I**&Af! ?\$9%&#&9-&!\$%!**B**.1\$#!;@7&#,\$#'!\$%!**B**&9A!!**O**.'),9+0\$9A!6?!!**C**@+@'0!

! f?.0)\$*,-!;\$-,.*!(&.-),9+e!!),'0\$#:!.9K!-\$90&90f!!6,\$-&'&!\$%!?).#*&'0\$9!;\$-,.*! B,9,'0#:!?\$9I\$-.0,\$9A!?\$*@8L,.A!;?!!!C7#,*!

! f?.0)\$*,-,'8!.9K!"\$*,0,-'!,9!.9!/*&-0,\$9!X&.#f!!?\$9%&#&9-&!a%!B.1\$#!;@7&#,\$#'!\$%! B&9!U@'0,-&!.9K!"&.-&!?\$\$#K,9.0\$#'!ZB,KRC0*.90,-!#&+,\$9[A!>.*0,8\$#&A!B6!!!B.#-)!

! f()&!P\$#8@*.0,\$9!\$%!?)@#-)!(&.-),9+!\$9!/-\$9\$8,-!`,%&f!W.0,\$9.*!?.0)&K#.*!

! /b0	.*!J&I,&^&#A!6&7.#08&90!\$%!J&*,+,\$9A!`.;.**&!H9,I&#',0:A!"),*.K&*7),.A!"C!! B.#-)!

123D!

! Q9I,0&K!".#0,-,7.90A!cW@-*&.#!6,'.#8.8&90e!()&\$*\$+,-.*!.9K!/0),-.*!Q''@&'d! ?\$9%&#&9-&!1\$,90*:!'7\$9'\$#&K!L:!0)&!H0;6!?\$9%&#&9-&!\$%!?.0)\$*,-!>,')\$7'A!.9K!0)&!T#\$-! ?&90&#!.0!W\$0#&!6.8&A!O.'),9+0\$9A!66?6!!a-0\$L&#!

Q9I,0&K!".#0,-,7.90A!c] *\$L.*!W@-*&.#!6,'.#8.8&90Ad!?\$9%&#&9-&!1\$,90*:!'7\$9'\$#&K! L:!0)&!=\$\$I&#!Q9'0,0@0,\$9!.0!;0.9%\$#K!H9,I&#',0:A!0)&!T#\$-!?&90&#!.0!W\$0#&!6.8&A!.9K!0)&! H6;6!?\$9%&#&9-&!\$%!?.0)\$*,-!>,')\$7'A!;0.9%\$#K!H9,I&#',0:A!B&9*\$!".#<A!?C!!!C7#,*!

! 09I,0&K!".#0,-,7.90A!cU@'0!O.#!.9K!?\$@90�&##\$#,'8!"#\$1&-0Ad!?\$9%&#&9-&! '7\$9'\$#&K!L:!U\$)9!?.##\$**!H9,I&#',0:A!?*&I&*.9KA!a =!!C7#,*!

123S!

! / b0	.*!J&I,&^&#A!6&7.#08&90!\$%!()&\$*\$+:A!/88.9@&*!?\$**&+&A!>\$'0\$9A!BC! C7#,*!!

1233!

! / b0	.*!/b.8,9&#A!6\$-0\$#.*!6&%&9'&!\$%!P	.9K\$!CG!;.).:.K.'A!!H9,I&#',0:!\$%! `&@I&9A!!>&*+,@8A!!;&70&8L&#!

1232!

! ".#0,-,7.90A!c*420-52:\$-1\$^"0-525"*!.9K!0)&!H9,0&K!;0.0&'d!!C!;:87\$',@8!-\$R '7\$9'\$#&K!L:!0)&!"\$90,%,-.*!?\$@9-,*!%\$#!U@'0,-&!.9K!"&.-&!.9K!0)&!Q9'0,0@0&!%\$#!CKI.9-&K! ?.0)\$*,-!;0@K,&'A!!J\$8&A!00.*:A!!a-0\$L&#!

122M!

! / b0	.*!J&I,&^&#A!(&9@#&!?\$88,00&&A!H9,I&#',0:!\$%!W\$0#&!6.8&!`.^!;-)\$\$*A!! a-0\$L&#!

122N!

! / b0	.*! J & I,& ^ &#A! (&9@#&! ?\$ 8 8,00&&A! 6@h@& '9&!H9, I &# ',0: A!!C@+@ '0!

122S!

! ".#0,-,7.90A!?\$9%&#&9-&!\$9!;-)\$*.#'),7!.9K!()&\$*\$+,-.*!/K@-.0,\$9A!C''\$-,.0,\$9!\$%! ()&\$*\$+,-.*!;-)\$\$*'A!",00'L@#+)A!"C!!B.:!

1221!

! 09I,0&K!".#0,-,7.90A!?\$9%&#&9-&!\$9!cC8&#,-.9!?.0)\$*,-,'8!.9K!0)&!;&b@.*!CL@'&! ;-.9K.*d!".'0\$#.*!`,%&!09'0,0@0&A!;06!;,8\$9i'!0'*.9KA!]C!!;&70&8L&#!

! ?\$9'@*0.90A!".'0\$#.*!;0.0&8&90!\$9!"\$I�:A!H;??>!a %%,-&!\$%!;\$-,.*!6&I&*\$78&90! .9K!O\$#*K!"&.-&A!O.').9+0\$9A!6?!!U@9&!

! ;:9K,-.0&K!P&.0@#&!O#,0&#A!?.0)\$*,-!W&^'!;&#I,-&A!cP.,0)!,9!P\$-@'d!!C7#,*R W\$I&8L&#!

3MME!

! / b0	.*! J & I ,& ^ &#A! ? \$ 8 8 ,00&&!\$9!C77\$,90 8 &90'A! (&9@#&!.9K!''#\$ 8 \$0,\$9A! H9, I &#',0: !\$%!W\$0#&!6.8 &!!! a -0\$L&#!

! /b0	.*!J&I,&^&#A!?\$88,00&&!\$9!(&9@#&!.9K!"#\$8\$0,\$9A!!O&'0\$9!;-)\$\$*!\$%! ()&\$*\$+:!!!a-0\$L&#!

3MM4!

Q9I,0&K!".#0,-,7.90A!H9,I&#',0:!\$%!W\$0#&!6.8&!]*\$L.*!;0&^.#K'),7!?\$9%&#&9-&A! ;\$@0)!>&9KA!QW!!!C7#,*!

! Q9I,0&K!".#0,-,7.90A!?\$9'@*0.0,\$9!\$9!`.L\$#!.9K!0)&!/9I,#\$98&90A!H6;6!?.0)\$*,-! ?\$9%&#&9-&A!O.'),9+0\$9A!6?!!!U@9&!

3MMD!

! P&.0@#&K!C@0)\$#A!f>#&.<%.'0!O,0)!.9!C@0)\$#f!;\$-,&0:!\$%!?)#,'0,.9!/0),-'A! ?),-.+\$A!Q`!!U.9@.#:!

3MMS!

! B&8L&#A!(.'<!P\$#-&!\$9!Q90	.0,\$9.*!"\$*,0,-.*!/-\$9\$8:A!()&!?&90&#!%\$#! ()&\$*\$+:!.9K!"@L*,-!"\$*,-:!!!3MMSRD!

 $! ?$9'@*0.90A!HG;G!?.0)$*,-!?$9\%2#&9-&A!6#.\%0,9+!\%!/7,'-$7.*!;0.0&8&90!f()&! = .#I&'0!$\%!U@'0,-&!,'!;$^9!,9!''&.-&f!!;7#,9+!$

! Q9I,0&K!".#0,-,7.90A!W\$0#&!6.8&!?\$9%&#&9-&!\$9!?.0)\$*,-!B\$#.*!()&\$*\$+:!!U@9&A! 3MMSA!3MNNA!3MNNA!3MNF!

3MM1!

! ?\$9'@*0.90A!W.0,\$9.*!?.0)\$*,-!/K@-.0,\$9.*!C''\$-,.0,\$9A!"#&7.#.0,\$9!\$%!7&20-1)\$5&"\$ I2-5&A!.!),+)!'-)\$\$*!#&*,+,\$@'!&K@-.0,\$9!7#\$+#.8!!!;7#,9+!

3MM2!

! / b0	.*! J &I,& ^ &#A! ? \$ 8 8,00&&!\$9!C77\$,90 8 &90'A! (&9@#&!.9K! "#\$ 8 \$0,\$9A! H9, I &# ',0: !\$%!W\$0#&!6.8 &!!W\$I & 8 L&#!

3MNM!

! ".#0,-,7.90A!Q90	.0,\$9.*!?\$9%&#&9-&!\$9!?.0)\$*,-!?)@#-)!(&.-),9+!\$9!;\$-,.*! U@'0,-&!!!J\$8&A!00.*:!!C7#,*!

! ".9&*, '0A!W.0,\$9.*!?\$9%&#&9-&!\$9!J&*,+,\$9!.9K!`.L\$#A!O.'),9+0\$9A!6?!!!!U.9@.#:! 3MNN!

! ?\$9'@*0.90A!W.0,\$9.*!?\$9%&#&9-&!\$%!?.0)\$*,-!>,')\$7'A!J&I,&^!?\$88,00&&! ".'0\$#.*!`&00&#!f()&!?).**&9+&!\$%!''&.-&f!!!U@9&!

! Q9I,0&K!".#0,-,7.90A!(.'<!P\$#-&!Q9I&'0,+.0,9+!`.L\$#!J,+)0'!,9!/*!;.*I.K\$#A!;.9! ;.*I.K\$#!!C@+@'0!

3MNE!

! Q9I,0&K!".#0,-,7.90A!O&'0!].9!?\$9%&#&9-&!\$9!0)&!".'0\$#.*!`&00&#'!\$9!"&.-&!\$%! 0)&!C8&#,-.9!.9K!O&'0!].9!/7,'-\$7.*!?\$9%&#&9-&'A!>\$99A!O&'0!].9:A!! ;&70&8L&#!

3MN4!

! Q9I,0&K!".#0,-,7.90A!O\$\$K'0\$-<!?&90#&!?\$9%&#&9-&!\$9!".'0\$#.*!`&00&#'!\$9!"&.-&!\$%! C8&#,-.9!.9K!O&'0!].9!/7,'-\$7.*!?\$9%&#&9-&'A!O.'),9+0\$9A!6?!!!U@9&!

! Q9I,0&K!".#0,-,7.90A!?)@#-)&'\!?&90&#!\\$#!()&\$*\$+:!.9K!"@L*,-!"\$*,-:!;0@K:!]#\$@7! \$9!?.0)\$*,-!>,')\$7'\!".'0\$#.*!`&00&#!\$9!0)&!/-\$9\$8:!!!!!3MNDRN4!

3MND!

! /b0	.*!J&I,&^&#A!?\$88,00&&!\$9!P.-@*0:!(&9@#&A!`@0)&#.9!()&\$*\$+,-.*! ;&8,9.#:A!]&00:'L@#+A!''C!a-0\$L&#!

3MNS!

! 09I,0&K!".#0,-,7.90A!W.0,\$9.*!;&-@#,0:!;&8,9.#A!HG;G!C#8:!O.#!?\$**&+&!!U@9&!

! ()&\$*\$+,-.*!?\$9'@*0.90A!?\$9%&#&9-&!\$%!B.1\$#!;@7&#,\$#'!\$%!B&9!.9K!0)&!

`&.K&#'),7!?\$9%&#&9-&!\$%!O\$8&9!J&*,+,\$@'!!;7#,9+!

3MN1!

! (91,0&K!",#0,-,7.90A!;&8,9.#!\$9!?)@#-)!(&.-),9+!.9K!0)&!HG;G!/-\$9\$8:A!

C 8 &#,-.9!/90#,'&!09'0,0@0&!!!U@9&!

3MN3!

! Q9I,0&K!".#0,-,7.90A!C99@.*!?\$**\$h@:e!!W.0,\$9.*!?\$9%&#&9-&!\$%!?.0)\$*,-!>,')\$7'\! ?\$88,00&&!\$9!6\$-0#,9&!.9K!?.0)\$*,-!`&.#9&K!;\$-,&0,&'!!!;&70&8L&#!

3MN2!

! 09I,0&K!".#0,-,7.90A!C99@.*!?\$**\$h@:e!!W.0,\$9.*!?\$9%&#&9-&!\$%!?.0)\$*,-!>,')\$7'\! ?\$88,00&&!\$9!6\$-0#,9&!.9K!?.0)\$*,-!`&.#9&K!;\$-,&0,&'!!!;&70&8L&#!

!

1

- 6 - "*\$'-%*'4 (%("\$'"#,#)5#*'

J&'&.#-)!]#.90!%\$#!X\$@9+&#!;-)\$*.#'A!C''\$-,.0,\$9!\$%!()&\$*\$+,-.*!;-)\$\$*'A!3MNDR N4!

P.-@*0:!;@88&#!J&'&.#-)!]#.90A!O.'),9+0\$9!()&\$*\$+,-.*!H9,\$9A!3MNM!

P&**\$ ^ A! ? & 90&#!\$%!() & \$*\$+,-.*!(9h@,#: A! "#,9-&0\$9A!WU!!U.9@.#: RU@*: A!3MM3!

(),#K!"*.-&!C^.#KA!>&'0!C#0,-*&!a#,+,9.0,9+!O,0)!C!;-)\$*.#*:!U\$@#9.*A!?.0)\$*,-! "#&''!C''\$-,.0,\$9A!3MM3!Zf()&!J&*.0,\$9'),7!\$%!J&*,+,\$9!.9K!B\$#.*,0:f!7'6-2(\$%&'/)&5[!

 $\mathbf{P}, \#'0!"^*. -\&!\mathbf{C}^*, \#KA! > \&'0!()\&\$^*\$ + :!>\$\$ < A!?.0)\$^*, -!"\#\&''!\mathbf{C}''\$ -, .0,\$9A!3MMS!$ $ZI / ((1"::\$'3\$I2-5\&A!".@^*,'0!"\#\&''[!$

P.-@*0:!;@88&#!J&'&.#-)!]#.90A!O.'),9+0\$9!()&\$*\$+,-.*!H9,\$9A!3MMD!

".@*!B-T&&I&#!?).,#!\$%!B\$#.*!()&\$*\$+:A!;0G!U\$)9"'!H9,I&#',0:A!U.8.,-.A!WXA! 3MMERMF!

6, '0,9+@, ')&K!; &#I,-&!C^.#KA!O.'),9+0\$9!()&\$*\$+,-.*!H9,\$9A!122D!

P,#'0!''*.-&!C^.#KA!>&'0!J&%&#&9-&!>\$\$<A!?.0)\$*,-!''#&''!C''\$-,.0,\$9A!122E! ZG'9"01\$425&'(-6\$7'6-2(\$%"26&-1)J\$4'HH"1520-":\$219\$A15"0K0"525-'1:A!]&\$#+&0\$^9! H9,I&#',0:!''#&''[!

P,#'0!"*.-&!C^.#KA!>&'0!>\$\$<!\$9!;\$-,.*!(&.-),9+A!?.0)\$*,-!"#&''!C''\$-,.0,\$9A! 123D!Z4&0-:5-21-5*\$219\$5&"\$8'(-5-62(\$M09"0A! a #L,'!>\$\$<'[!

P.-@*0:!P&**\$^'),7!C^.#KA!B\$##,''&:!?\$**&+&!\$%!C#0'!.9K!;-,&9-&'A!>\$'0\$9! ?\$**&+&A!P.**A!1212!

!

!#"\$(%-0')%.("/-&)(%'

! 6.0&!.9K!"*.-&!\$%!>,#0)e!U@*:!1A!3M42_!>#\$\$<*:9A!WX!

! B & 8 L & #e!! a #K & #!\$%!P#, . #'! B ,9\$#!ZP#.9-, '-.9'[_!; \$*& 8 9*:!"#\$%&''&Ke!C@+@'0!3MF4!

a#K.,9&K!0\$!"#,&'0)\$\$K!,9!J\$8.9!?.0)\$*,-!?)@#-)e!B.:!3MFE!

J&',K&9-&e!!1DE!>&.-\$9!;0#&&0A!?)&'09@0!=,**A!BC!21DEF!

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J&I, '&Ke!!U@*: A!1211!