

! "\$%&'#()\*+,\* - +. (/ \*01+&#23\*

Q\$!2#@!

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2@--\*J@B@3!^\*./,! 2

2#@P!Q\$!R&' &(\$\$!"-,+,-=\*J,!./J#,-+!B./-1\*1D!.O!./J#!1C!C,=,BOw\*1D!./J#,-!\*C,1.\*.>!\*1!/!. /J#,-!  
-,+\*C,1J>\$!54I%6\$+7(23''%I-\$\$. +<(@JRESP!&);F&NZ\$!  
#..W+4XXCO\*\$O-DX('\$('N'X('YH)&('\$&'&'\$(H&Y;EY!!  
2#@P!Q\$!R&' (;\$\$!O#./!/-,!.#,>!. /B8\*1D!/\0@.!T#,1!.#,>!. /B8!/\0@.! ,\_@\*.>U!6!J01.,1.!/1/B>+\*+!0?!  
,\_@\*.>!W-\*1J\*WB,+!/1C!W-0=\*+\*01+!1!+./.!I=,->!: .@C,1!:@JJ,,C+!6J.!WB/1+\$!23''%I-\$\$. +(  
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Q\$!2#@!

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9 / ;! \* I J ! \* K ! O , , 3 + P ! 6 \$ ! R & ' & & P ! 9 / - J # S \$ !

O / 1DP! O\$P!K!9 / ; \*I!J!R&' ( ; P! 6W-\*BSS!IE. +, . #, (. > \$+34E4+34+(-41%64#(E#4E1#I-\$ . +(E#. 7#I ' , A(M  
 +4-W. #V(I+I&L, \$, \$!gO@1C./\B, !W/W, -!W-, +, 1., C!/!.# , !&' ( ; !6 3 , -\*J/1!IC@J/. \*O1/B!  
 g, +, /-J#!6++OJ\*/.\*O1!611@/B!9 , , \*1DP! [ 0-01.OP!2/1/C/\$!  
 9 / ; \*I!J!K!O / 1DP! O\$R&' ( ; P! 6W-\*BSS!5. WI#3, (I(%&"#I&&L(, ", -I\$+\$+7( ' 4+- . #, 6\$E(>. #(%&"#I&&L(  
 3\$N4#, 4(>I%"&-L( ' 4 ' ; 4#, (\$+(6\$764#(43""%I-\$ . +C!" /W, -!W-, +, 1., C!/!.# , !)&E\$!611@/B!  
 201?, -, 1J, !O?!.#, !203 W/-/. \* =, !/1C!L1., -1/. \*O1/B!IC@J/. \*O1!:OJ\*, >P!: /1!A-/1J\*+JOP!2 6\$!  
 O / 1DP! O\$P!K!9 / ; \*I!J!R&' ( ; P! 6W-\*BSS!^+4(, -4E(>. #WI#3<(-W. (, -4E, ( ; I%VZ(M(%#\$-\$%I&(I+I&L, \$, (. >  
 !6\$+Ie, (+4W(+I-\$ . +I&(%##\$%"&" ' C!" /W, -!W-, +, 1., C!/!.# , !)&E\$!611@/B!201?, -, 1J, !O?!.#, !  
 203 W/-/. \* =, !/1C!L1., -1/. \*O1/B!IC@J/. \*O1!:OJ\*, >P!: /1!A-/1J\*+JOP!2 6\$!  
 ^ / @aP!V\$P!g\*C, / @aP! [ \$P!K!9 / ; \*I!J!R&' (NP! 9 />SS!M3NI+%\$+7(, -"34+-, (. >(% . &. #, ("%4, , A(  
 : +34#, -I+3\$+7(% . +-\$; "-\$. +, (. >#I%\$I&&L(I+3(4-6+\$%I&&L(3\$N4#, 4(-41%64#(E. E"&I-\$ . +, (\$+(  
 d. #64I, -(9. "\$, \$I+I\$!"O+, -!W-, +, 1., C!/!.# , !E(#!611@/B!V/. \*O1/B!201?, -, 1J, !O!g/J, !K!  
 I.#1\*J\*.>!1!6 3 , -\*J/1!k\*D#, -!IC@J/. \*O1P!V, T! j -B, /1+P!G6\$!  
 ^ / @aP!V\$P!9 / ; \*I!J!R&' (NP!5/1@/->SS!54# ' \$+I-\$+7(-4+ "#4[-#I%V( ' L-6, A(O4>&4%-. +, (># . ' (#4%4+-&L(  
 6\$#43(-4+ "#4[-#I%V(E#. >4, , . #, C!" /W, -!W-, +, 1., C!/!.# , !)&E\$!611@/B!k/T/\*\*!L1., -1/. \*O1/B!  
 201?, -, 1J, !O!IC@J/. \*O1P!kO1OB@B@P!kL\$!  
 O / 1DP! O\$P!K!9 / ; \*I!J!R&' (HP! 6W-\*BSS!K#. >4, , \$. +I&(\$34+-\$-L(34N4k. E ' 4+-(. >("\$N4#, \$-L[ ; 1, 43(  
 -41%64#(43""%I-. #, (\$+(!6\$+I\$!" /W, -!W-, +, 1., C!/!.# , !&' (H!6 3 , -\*J/1!IC@J/. \*O1/B!g, +, /-J#!  
 6++OJ\*/.\*O1!611@/B!9 , , \*1DP! : /1!61.O1\*OP! [ f\$!  
 O / 1DP! O\$P!K!9 / ; \*I!J!R&' (HP! 9 /-J#SS!K#. ; &4 ' I-\$c\$+7(\$34+-\$-4, (. >("\$N4#, \$-L[ ; 1, 43(-41%64#(  
 43O!W#-!W-, #O..O!/.!# , !)

2#@P!Q\$!R&' (ZP!6W-\*BSS!564(E. &\$-\$%, (.>#4E#4, 4+-I-\$ . +A(564(E. #-#1LI&( .>(4-6+\$%( ' \$+ . #S-\$4, (\$+(  
!6\$+4, 4(4&4 ' 4+-I#L(, . %\$I&(-"3\$4, (-4X-; . . V, \$!g0@1C./\B, !W/W, -!W-, +, 1., C!/!.# , !&' (Z!  
6 3 , -\*J/1!IC@J/. \*O1/B!g , +, /-J#!6++OJ\*/. \*O1!611@/B!9 , , \*1DP!2#\*J/DOP!LG\$!  
2#@P!Q\$!R&' (ZP!6W-\*BSS!\*+4#+I-\$ . +I&(299(% . &&474(, -"34+-, (% . +, -#"-%(\$34+-\$-4, (I, (W#-\$4#, (-6#. "76(  
I(W#-\$+7(% . +>4#4+%4(E#. 7#1 ' \$!g0@1C./\B, !W/W, -!W-, +, 1., C!/!.# , !&' (Z!6 3 , -\*J/1!  
IC@J/. \*O1/B!g , +, /-J#!6++OJ\*/. \*O1!611@/B!9 , , \*1DP!2#\*J/DOP!LG\$!  
2#@P!Q\$!R&' (ZP!9 /-J#SS! Y6. , 4(V+. W&4374(\$, (NI&"43Z(M(%#S-\$%I&(I+I&L, \$, (.>(64(#4E#4, 4+-I-\$ . +(.>  
4-6+\$%( ' \$+ . #S-\$4, (\$+( !6\$+4, 4(, . %\$I&(-"3\$4, (-4X-; . . V, \$!"/W, -!W-, +, 1., C!/!.# , !Z;"!611@/B!  
201?, -, 1J, !O?!.# , !203 W/-/. \* =, !/1C!L1. , -1/. \*O1/B!IC@J/. \*O1!:OJ\* , >P!O /+#\*1D.O1!%\$!2\$!  
9 / ;! I\$P!k /BW\*1P!5SP!K!9 , J8?, ++, BP! : \$!R&' (YP!9 /-J#SS!Q4&\$; 4#1-4&L(%" &-SNI-\$+7( . E4++4, , (- (   
&\$+7"\$ , -\$(3\$N4#, \$-LA(O4[4+N\$, \$ . +\$+7(-" . #6\$#\$+7(E#. %4, , 4, \$!O0-8+#OW!W-, +, 1., C!/!.# , !  
&' (Y!L1. , -1/. \*O1/B!O-\* \*1D!2, 1. , -!6++OJ\*/. \*O1!20BB/\O-/. \* =, !/!201?, -, 1J, !O!20BB, D, !  
203 WO+\*. \*O1!/1C!203 3 @1\*J/. \*O1P!L1C\*/1/WOB\*+P!LV\$!

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@?NCFG6H\*

O , , 3+P!6SP!K!9 / ;! I!J!R&' &(P!VO=, 3 \ , -SS!94N4#17\$+7(K!Fh(EI#-+4#, 6\$E, (I+3(I(\ #. W(J. "#(^W+(  
#4#/"\$- ' 4+(- ' . 34&(-. (\$+%#4I, 4(I+3(3\$N4#, \$L(-64(-41%64#(W. #V>. #4\$)" /W, -!W-, +, 1., C!/!.# , !  
Z'!"!611@/B!9 , , \*1D!O?!.# , !9 \*CF:0@.#!IC@J/. \*O1/B!g , +, /-J#!6++OJ\*/. \*O1P!V, T!j -B, /1+P!  
G6\$!  
2#@P!Q\$!R&' (NP!VO=, 3 \ , -SS!04+- . #S+7(E#I%-S%4, (.>' 4+- . #(-41%64#, (\$+(I(LA1#[&. +7(-41%64#(  
#4, \$34+%L(E#. 7#1 ' \$!" /W, -!W-, +, 1., C!/!.# , !YH!"!611@/B!9 , , \*1D!O?!.# , !9 \*CF:0@.#!  
IC@J/. \*O1/B!g , +, /-J#!6++OJ\*/. \*O1P!" , 1+ /JOB!/7 , /J#P!AG\$!  
9 , 1DP!%\$P!5O1 , +P!2SP!" \*1D- , >P!1 P!h\*@-J/P!9 SP!9 / ;! I!J!K!2 / 3 W \ , BBP!G\$!R&' (ZP!j J.O \ , -SS!  
O4>&4%-\$+7( . +(#4&4%-\$+7A( Y6I-e, (-64(NI&"4( .>(#4&4%-\$N4(W#-\$+7(\$+(W#-\$+7(-" . #(  
34N4&. E ' 4+Z!" /1, B!+>3 WO+\*@3 !C, B\* =, -, C!/!.# , !&' (Z!50\*1. !201?, -, 1J, !O?!.# , !"/J\*?J!  
VO-#T, +!O-\* \*1D!2, 1. , -!6++OJ\*/. \*O1!/1C!.# , ! [ TOFQ, /-!20BB, D, !I1DB\*+#!6++OJ\*/. \*O1!O?!  
.# , !"/J\*?J!VO-#T, +. P! : W08/1, P!O 6\$!!  
2#@P!Q\$!R&' (&P!A, \-@/->SS! j "4, -\$ . +[I, V\$+7( ;46IN\$. #(.>!6\$+4, 4(7#13" I-4(, -"34+-, (\$+(I+(  
M ' 4#S%I+("/+\$N4#, \$-LA(M%I, 4(, -"3LS!" /W, -!W-, +, 1., C!/!.# , !EZ!"!611@/B!9 , , \*1D!O?!.# , !  
:0@.#T, +. !IC@J/. \*O1!g , +, /-J#!6++OJ\*/. \*O1P!V, T!j -B, /1+P!G6\$!

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CG4?@G64CFG6H\*6GD\*G64CFG6H\*

2#@P!Q\$!R&' &EP!A, \-@/->SS!O4-6\$+V\$+7(,%6. . &["+\$N4#, \$-L[% . ' ' "+\$-L(EI#-+4#, 6\$E, (-. W1#3, (I(-6\$#3(  
, E1%4(>#1 ' 4W. #V(\$+(% . ' E1#I-\$N4(#4, 4I#%6( . +(-41%64#(E#4E1#I-\$ . +\$)" /W, -!W-, +, 1., C!/!  
W/-!O?!.# , !\008!B/@1J#!W/1, B!54I%64#(23" %I-\$ . +(\*+-4#, 4%a-\$+7(! . ' E1#I-\$N4(I+3(  
\*+-4#+I-\$ . +I&(23" %I-\$ . +A(O4N\$, \$-\$+7(O4, 4I#%6<(K. &\$%L(I+3(K#I%-S%4(\$+(5W\$+(I%6. &I#, 6\$E(  
8\$4&3, (/!.# , !)H!"!611@/B!201?, -, 1J, !O?!.# , !203 W/-/. \* =, !/1C!L1. , -1/. \*O1/B!IC@J/. \*O1!  
:OJ\* , >P!O /+#\*1D.O1!%\$2\$!  
2#@P!Q\$!R&' &&P!VO=\$E' M% , J\$!(SS! ! . +%4E-" I!&\$c\$+7(43" %I-\$ . +I&(4b"\$-L!L1+. \* . @. , !O?!  
IC@J/. \*O1!:J\* , 1J, +! [ , J#1\*J/B!O0-8\*1D!h-0@W!^\*-.@/B!9 , , \*1D!4!7 , +. !"-/J.\*J, +!/1C!  
2# /BB, 1D, +!O-!I 3 \ , CC\*1D!I\_@\* .>!1!IC@J/. \*O1!g , +, /-J#\$!  
6 6 2 [ I!hBO\ /B!% =, -+\* .>!" -OD- / 3 3 / \*J!6C=\*0->!203 3 \* . . , \$!R&' &&P!9 /-J#SS! \ &. ; I&(Q\$N4#, \$-L(  
94I#+\$+7(9I; \$! : , ++\*O1!W-, +, 1., C!/!.# , !HY!"!611@/B!9 , , \*1D!O?!.# , !6 3 , -\*J/1!6++OJ\*/. \*O1!  
O?!20BB, D, +!O-! [ , /J#, -!IC@J/. \*O1P!V, T!j -B, /1+P!G6\$!R%-!2#@!+ , =, C!O1!.# , !J0 3 3 \* . . , !  
\ , . T, , 1!&' &(!/1C!&' &&SS!









[!1\$!k0!R:@33,-!&'&ESMI-"3L(.>I(34N4&.E\$+7(E#.>4,,\$.+I&(4I#+\$+7(%.'''"+\$-L(.>4b"\$-L['\$+343(43""%I-.#,(

1\$!2\$![O-/B\!R:W-\*1D!&'&ESMO"&-\$%"&-"#I&(%. 'E4-4+%4(I+3(%&-"#I&&L(#4,E.+, \$N4(-4I%6\$+7(.>I(-#I+,+I-\$.+I&(%"##\$%"&"' '\$+(56I\$I+3!

9\$!2\$!70>.,!R:@33,-!&'&&SM2X1 '\$+\$+7(E#1%-\$-\$.+4#(I+3('4+-.#(-4I%64#,dE4#%4E-\$.,( I;."(-64('\$E1%-(.>(-I-4['I+3I-43('4+-.#\$+7!

9\$!6\$!V/18\*1!R:@33,-!&'&&SM:+-IEE43(&4I34#,6\$EA(2XE&.#\$+7(-64(>I%-.#,-6I-(%. "&3(\$+&"4+%4(2I^9(-4I%64#,d34%\$, \$.+(-.(E"#,"4(I,,\$-I+-(E#\$+%\$E1&(E.,\$-\$.,(

9\$!9\$!^/B,1.\*1!R:@33,-!&'&&SM9I-\$+X(M'4#%I+(-"34+-,(I+3(-64(29M(%""##\$%"&"'A(!."+4#,-.#\$4,(I,(%"##\$%"&I#(#4,E.+,4(

O\*11,-!O?!.#,!&'&E!50#1!G/+8!/!j@.+/1C\*1D!%\*+,-./.\*01!6T/-C\*1!.#,!

2@--\*J@B@3!J/.,DO->P!63,-\*J/1!6++0J\*/.\*01!O-![,/J#\*1D!/1C!2@--\*J@B@3(

2\$!I\$!G01C01!R:W-\*1D!&'&&SM564(%IE\$-I&(>.#',(7IEA(2X1 '\$+\$+7(-64(#.&4(.>(:CIC(E";&\$%(/,%6..&\$+7(\$+(/.+-4'E.#1#L(3\$,EI#\$-\$4,(;4-W44+(6"'I+(%IE\$-I&(I+3(%IE\$-I&(W+4#,(

G\$!V/>O!RA/BB!&'&(SMM(%I,4(-"3LA(U.W(-64(",4(.>"+3,(.>(V+.W&4374(W\$-6('I-64'I-\$%I&&L(7\$>-43(I&I%V(I+3(9I-\$+X(-"34+-,(,\$(\$+&"4+%43(;L(E4.E&4<(E.&\$%\$4,(I+3(%""##\$%"&"'!

G\$!Q0@1DF70T\*,!R:W-\*1D!&'&'SM!"##\$%"&"'('.>(%.'EI,,\$.+A(K4#,E4%-\$N4,(.>(-4I%64#,( I+3(I3'\$+\$,-#I-.#,(.+"-\$&\$c\$+7(I(-#I"'I[,4+,\$-\$N4(43""%I-\$.( ' .34&!

6\$!6B,a/1C,-!R:W-\*1D!&'(;SM

2\$!O\*D#. 3 / 1R : W-\*1D!&' &&SM 564(\$ ' E1%-(. >(% "k- "#I&&L(I+3(&\$+7"\$, -\$%I&&L(#4, E. +, \$N4( -4I%6\$+7A(M+(I%-\$. +(E#.f4%-(34,\$7+43(-. (#43""%4(% "k- "#I&&L(I+3(&\$+7"\$, -\$%; \$I, (\$+(-64(13""k- 2I9(%&I, ,#. . '(

8 . '(%&\*2(;Q%'('\*6Q\$#'#'0\*\$'+''A(/%'# 'T\*

9 \$ICS!+. @C, 1. +!\*1!2@--\*J@B@3!K!L1+.-@J.\*01M I 1DB\*+##/+/!/: ,J01C!G/1D@/D,!

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+ , ( - ! . . ' ( ) % / \* : ! : 1 ! , . 6 ' + . \* \* \* \* \* \* \* \*

! 6 , )#3%&' . /23%\$##\*%&'< , , %)3=' ! ""\*3#%\$##\* &'R&' ( &F"- , + , 1.S'

! %\* = \* + \* 01!74!2@--\*J@B@3! : . @C\* , +!!

! %\* = \* + \* 01!h4! : 0J\* / B! 201 . , a. ! 0?! IC@J / . \* 01!

%\* = \* + \* 01! 14! [ , / J#\* 1D! K! [ , / J# , -! IC@J / . \* 01!

%\* = \* + \* 01! G4! IC@J / . \* 01 / B! " 0B\* J > ! / 1C! " 0B\* . J +!

! 9 @B.\*J@B. @- / BX 9 @B. , . #1\* J! IC@J / . \* 01! [ # , 0 - > ! g , + , / - J# ! / 1C! " - / J.\* J , ! : Lh!

! g , + , / - J# ! 01! . # , ! IC@J / . \* 01! 0?! 6 + \* / 1! / 1C! " / J?\* J! 6 3 , - \* J / 1 + ! : Lh!

9\* 6 8%)%\$#7 , '%&' / ; &\$ , )%\$##\* &'%4' . /23%\$##\* &'E\*3# , \$K'R&' (ZF"- , + , 1.S'

\* I / + . ! 6 + \* / ! : Lh!

! [ , / J# , -! IC@J / . \* 01! / 1C! . # , ! [ , / J#\* 1D! " - 0? , + \* 01! : Lh!

D%\$##\* &'%4' ! ""\*3#%\$##\* &' + \* ) ' B 24\$#324\$2)%4' . /23%\$##\* &'R&' (ZF"- , + , 1.S'

D%\$##\* &'%4' 9\* 2 & 3#4' + \* ) '\$ = , 'E\*3#%4'E\$2 / # , "R&' ( ) F&' (HS!

! ""\*3#%\$##\* &' + \* ) '\$ = , 'E\$2 / K' \* + ' G#5 = , )' . /23%\$##\* &'R&' ( YF&' ( ZS!

B # / LE\*2\$ = ' . /23%\$##\* &'%4' < , , %)3=' ! ""\*3#%\$##\* &'R&' (NF! " - , + , 1.S!

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. ! / ! \$ & ! " % 4 % , " . \* \* \* \* \* \* \* \* 9999999999\* \*

M#\$K'I , > ) , , ' . & / \* @ , / ' ( ) \* + , ""\* ) " = # 8 '# &' . /23%\$##\* &' &' &' F &' &' E!

< 1\* = , - + \* . > ! 0?! G0@\* + \* / 1! / 9 01-0 , '

J)%&3 , "" 1%7#"" G 6 6 \* &' / ' ( ) \* + , ""\* ) " = # 8 '# &' . /23%\$##\* &' ' ' ' ' """"&' (HF&' &' !

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9\*4,5 , '\* + ' . /23%\$##\* &'?)%7,4' > )%&\$' ' ' ' ' ' """"&' (Z!

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> )% / 2% \$ , '% &' / ' ( ) \* + , ""\* &' % 4' E\$2 / , &\$' E , &\$ , '?' % 7 , 4' > )%&\$' ' ' ' ' """"&' (Z!

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N#7#%&' 9% / K'H\* = &' \* &' E3 = \* 4%) " = # 8 """"&' (E""""!

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. + ! \$ '% / ' & 8 \* & , % ' ) ' ) 7 \* \* \* \* \* \* \* \* \* \*

O8 , &' . /23%\$##\* &'%4' < , ""\* 2) 3 , "" """"&' (NF&' ( ; !

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P&#7 , ) "#\$K' > )%&\$' ""?)%#&#&5' """"&' (N!

A0-!k / > + ! : . / . , ! < 1\* = , - + \* . > !

> )%&\$' Q\*) I' """"&' (H!

h - / 1 . + ! g , + 0 @ - J , ! 2 , 1 . , - !

( ) \* 6 \* \$ # &' 5' O2 \$ " \$ % &' / # &' 5' Q) # \$ # &' 5' + \* )' . A3 , 44 , & 3 , '# &' < , , , %) 3 = ' """"&' ( ( !

[ , a / + ! 6 K 9 ! < 1\* = , - + \* . > !

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,!.!%, \$6\* : !&6 ( ".\* \* \* \* \* \* \* \* \*

o@/B\*./.\*=,!g,+,/-J#!9,.#OCOBOD>!R6 [G6 :\$!.\*S!

201.,1.!61/B>+\*+!

9\*a,C!9,.#OC+!g,+,/-J#!R: " : :p!gp!9 6 f o % 6S!