



&

%G' "\*<#\*` 7<\*(D\$%D("<#6G' \* ,(<7D(7<6H(, ; \*#"%6", D\, # \$76%&, (8GD(%6, 7(%(&\*%, 7<%86H("<F7&+ \*' (= \*<\* &%6(  
; G86"#J(5\$", (<\*#\* , , "D%D\*' (' QG, D+ \* <D, (D7(, DG' \* <D, S(E&"D" <=(, DH6\*(D\$%D

! "\$ % & ' ( ) \* + , - . / 0 1 2 # \$ % - 3 2 0 & 4 3 - " # ) \* . & 5 - 3 6 " ' 0 7 & 8 " 6 2 # - & ' & : |

&

? < F 7 & + % D " 7 < ( 0 " D \* & % # H ( F 7 & ( ) " = \$ \* & ( - ' G # % D " 7 < 2 (

(

1 J ( ? - " % ( 3 - 1 9 1 \* & " & / , \* ( , \* ( " ( 9 1 # , \* 4 " - ' ( 9 , \$ - # 1 4 ( (

(

5 \$ \* , \* ( , \* 9 \* < \ + " < G D \* ( ; & \* , \* < D % D " 7 < , l ( , ; % # \* ' ( D \$ & 7 G = \$ 7 G D ( D \$ \* ( 6 % D D \* & ( \$ % 6 F ( 7 F ( D \$ \* ( , \* + \* , D \* & l ( E \* & \* ( D 7 ( 8 \* ( % 8 7 G D ( % , 7 G & # \* ( D \$ % D ( , D G ' \* < D , ( F 7 G < ' ( " < # 7 < ' G # D " < = ( D \$ \* " & ( & \* , \* % & # \$ ( F 7 & ( D \$ \* ( # & " D " # % 6 ( 8 7 7 0 ( & \* 9 " \* E J ( 5 \$ \* H ( E \* & \* ( % , 0 \* ' ( D 7 ( ' \* , # & " 8 \* ( < 7 D ( 7 < 6 H ( D \$ \* ( , 7 G & # \* ( " D , \* 6 F ( % < ' ( " D , ( % & = G + \* < D l ( 8 G D ( % 6 , 7 ( D \$ \* ( ; & 7 # \* , , ( " < 9 7 6 9 \* ' ( " < ( % & & " 9 " < = ( % D ( % < ' ( \* 9 % 6 G % D " < = ( D \$ \* ( , 7 G & # \* J ( 5 \$ G , l ( " D " < # 6 G ' \* ' ( % ( ' " , # G , , " 7 < ( 7 F ( , D G ' \* < D , S ( , \* % & # \$ (

&

; %&D\E%, (D\$\*(%8"6"DH(D7(KA\* + 7<, D&%D\*( + \* <D%6(F6\*M"8"6"DH(#&\*%D"9"DH(%<' (; \*&, "D\* <#\*(E\$\*6\*(  
#7<' G#D"<=&\*, \*%&#&\$JL(: \*9\*%&6(, DG' \* <D, (&\*; 7&D\*' (D\$%D(D\$\*(&\* [G"&\* + \* <D(D7("<#7&; 7&%D\*(  
<7<D&% "D"7<%6(, 7G&#\*, (%##\* <DG%D\*' (D\$\*( <\*#\* , "DH(F7&(D\$\* + (D7(; &%#D"#\*( + \* <D%6(F6\*M"8"6"DH(%<' (  
; \*&, "D\* <#\*I(, "<#\*(D(&\* [G"&\* (D\$\* + (D7(9\* <DG&\*(" <D7(=\* <\*&, (%<' (+ \*D\$7' , (7F(, \*%&#&\$"<=(D\$%D(D\$\*H(  
E\* &\* (<7D(F% + "6"%&(E"D\$J(  
?  
(

?<(D\$\*(%DD%#\$\*' (%; ; \* <' "MI(?(\$%9\*(; &79"' \*' (, \*9\*%&6(\*M% + ; 6\* , (7F(D\$\*( &\*, \*%&#&\$(&\*F6\*#D"7<(\* , , %H, (  
D\$%D(, DG' \* <D, (; &7' G#\*' (" <(D\$\*(#7G&, \*J(  
(

(

: BVVR! W(R. A( . -d5(: 5-T:(

@<\* (7F(D\$\*(G<\*M; \*#D\*' (8\* <\*F"D, (7F(D\$", (; &7Q\*#D(F7&( + H(D\*%#\$"<=(, (D\$%D("D(; &7 + ; D\*' (+ \* (D7(D\$"<O(  
7F(<\*E(E%H, (D7(' \* + H, D"FH(D\$\*( &\*, \*%&#&\$(: &7#\* , , (F7&( + H(, DG' \* <D, I(D7(' <#7G&%=\*(D\$\* + (D7(<7D"#\*(  
%<' (&\*F6\*#D(7<(D\$\*"&(7E<(: &7#\* , , \* , I(%<' (D7(F&% + \*(&\*, \*%&#&\$(% , (: %&D(7F(%#&D"#6(#7<9\*&, %D"7<(D\$%D(  
" , (7<=7"<= ` "<' \*\*' I( ` "<(D\$\*(E'" \* &(E7&6' J(  
(

! \*8\*##%/&%FFS, (9" , "D, (D7(+H(#6% , , &77 + (E\* &\*(\* , ; \*#"%66H(\$\*6; FG6("<(\* + ; \$%, "N"<=(D\$\*(%879\*J)(\VH(  
, DG' \* <D, (F7G<' (\$\* &("<\#6% , , (" <F7& + %D"7<(, \* , , "7<, (\*MD&\* + \*6H(9%6G%86\*1(%<' (?(%; ; &\*#"D\*' (\$\* &(\$\*6; (  
"<(D\$\*(8&%<, D7& + "<=(%<' (&\*F"<"<=(, D% = \* , (7F(% , , "= < + \* <D(' \* , "= <J(?<(\$\* &(#7<9\*&, %D"7<, (E"D\$( + H(  
, DG' \* <D, I(, \$\*( \$\*6; \*' (D\$\* + (8\*DD)\* &(G<' \* &, D%<' (E\$%DI(" <("D, (K! \* , \*%&#&\$ (C7 + ; \*D\* <#"\*\* , (" <[ ] &"D"<=(  
%<' (O"D\* &%DG&\*L(' 7#G + \* <DI(D\$\*(RC! O(#%66, (D\$\*(K\$H8&"" (\*#7, H, D\* + L(7F(#7<D\* + ; 7&%&H(6"D\* &%&H(  
, # \$76%&, \$"; I("<#6G" "<=(K% (= &7E" <=( <G + 8\* &(7F(\$7, D, I(; 6%DF7& + , I(F7& + %D, I(%<' (\*9\* <(' " , #"; 6" <\* , L(  
YeZJ(: \$\*( \$\*6; \*' (, DG' \* <D, (G<' \* &, D%<' (D\$%D("DS, (; 7 , , "86\*(D7(F"<' (9%6G%86\*(, 7G&#\*, (7F("<F7& + %D"7<("<(  
; 6%#\* , (D\$\*H(E7G6' <SD(\$%9\*( \*M; \*#D\*' I(8\*H7<' (D\$\*( + 7\* &(F% + "6"%&(: %D\$, (7F(, # \$76%&6H(&\*, \*%&#&\$("<(  
-<=6" , \$(6"D\* &%DG&\*J(  
(

@<\*(% , ; \*#D(7F(D\$\*(#7G&, \*(D\$%D(?(+="\$D(%' OG, D("<(D\$\*(FGDG&\*(" , (D\$\*(, \*#7<' %&H(, 7G&#\*(; &\* , \* <D%D"7<J(  
?(E%, (" <"D"%66H(\*M#"D\*' (%87GD(D\$\*((" \*%(7F(D\$\*, \*(: &\* , \* <D%D"7<, (% , (% , # %FF76

! "#\$ "%&'()\*+,-./012#\$)-320&43-'#)\*. &5-36''07&8''62#-&'& <l

&

D\$\*( \* + ; \$% , " , (7 < (" < F7 & + %D"7 < (6"D\* & % #H(% < ' ( , \*6F\&\*F6\*#D"7 < l(8GD(&\*DG&<(D7(% , 0" < = ( , DG' \* < D , (D7(E&"D\*(  
" < (% + 7 & \*(D&% ' "D"7 < %6( , # \$ 76%&6H( , DH6\* J( . 7 < D&% ' "D"7 < %6( , 7G&#\* , (#7G6' ( , D"66( ; 6%H(%&76\*" (" < ( , DG' \* < D , S(  
&\* , \*%&#\$ ( : &7#\* , , ` " < (D\$\*( \*%&6HI(#7 < #\* ; DG%6"N%D"7 < ( , D% = \* , (7F(D\$\*" & (%&=G + \* < DI( ; \* & \$ % ; , ` \*9\* < ("F(  
D\$\*H(%&\* < SD(

! "\$%&'()\*+,-./012#\$)-320&43-'#)\*. &5-36''07&8''62#-&'& =l

&

@331\*4/A/@7/@99/B\*. 1\*&(2>11&(+, -(&>1(21#, \*4''-'(2, \$-#1(C-191\*&'&/, \*(

(

-./0(12314(5\$(/678%6(. 79\*6(

::&"<=(1>12(

21#, \*4''-'(2, \$-#1(C-191\*&'&/, \*(@99/B\*. 1\*&(2>11&(

W7G&(F(+<J(; &\*, \*<D%D"7<(E"66(8\*(%87GD(%(, 7G&#\*(H7G(F7G<' ("<(#7<' G#D"<=(H7G&(&\*, \*%&#\$(F7&(H7G&(

#&"D"#%6(8770(&\*9"\*EJ(W7G(E"66(' \* , #&"8\*( <7D(7<6H(D\$\*(, 7G&#\*( "D, \*6F(%<' ("D, (%&=G+ \* <DI(8GD(%6, 7(D\$\*(

; &7#\*, , ("<9769\*' ("<(%&&"9"<=(%D(%<' (\*9%6G%D"<=(D\$\*(, 7G&#\*J(

A\*; \*<' "<=(7<(D\$\*(O"<' (7F(, 7G&#\*(H7G(#\$77, \*(D7(; &\*, \*<D(7<I(, 7+\*(7F(D\$\*([G\*, D"7<, (8\*67E(E"66(8\*(

+7&\*( &\*6\*9%<D(7&("<D\*&\*, D"<=(D\$%<(7D\$\*&, J(C\$77, \*(D\$\*([G\*, D"7<, (D\$%D(%&\*&"=\$D(F7&(H7GI(8GD(' 7(

%"+(D7(, ; \*%0(7<(\*%#\$(7F(D\$\*(F7667E"<=(D\$&\*(#%D\*=7&"\*, 4(



! "\$%&'&



! "\$ % & ' ( ) \* + , - . / 0 1 2 # \$ % - 3 2 0 & 4 3 - " # ) \* . & 5 - 3 6 " ' 0 7 & 8 " 6 2 # - & ' & @

&

R; ; & 7; & "% D \* ( , # \$ 7 6 % & & 6 H ( , 7 G & # \* , ( + " = \$ D ( " < # 6 G ' \* ( % & D " # 6 \* , ( " < ( , # \$ 7 6 % & & 6 H ( 0 7 G & < % 6 , I ( E \$ \* D \$ \* & ( " < ( ; & " < D ( F 7 & + ( 7 & ( % # # \* , , \* ' ( D \$ & 7 G = \$ ( 7 < 6 " < \* ( ' % D % 8 % , \* , ( , G # \$ ( % , ( I : 5 @ ! I ( 7 & ( 8 7 7 0 , ( ; G 8 6 " , \$ \* ' ( 8 H ( G < " 9 \* & , " D H ( ; & \* , , \* , J ( . 7 < D & % ' " D " 7 < % 6 ( , 7 G & # \* , ( + " = \$ D ( " < # 6 G ' \* ( , # \$ 7 6 % & , \$ ;

! "\$%&'&

! "\$%&'&

&

A \* + 7 < , D & % D \* ( + \* < D % 6 ( F 6 \* M " 8 " 6 " D H I ( # & \* % D " 9 " D H I ( % < ' ( ; \* & , " , D \* < # \* ( E \$ " 6 \* ( # 7 < ' G # D " < = ( H 7 G & ( & \* , \* % & # \$ I ( ; " 9 7 D " < = ( D 7 ( < \* E ( , \* % & # \$ ( , D & % D \* = " \* , ( " F ( < \* # \* , , % & H I ( E \$ " 6 \* ( & \* % 6 " N " < = ( D \$ % D ( " < F 7 & + % D " 7 < ( , 7 G & # \* , ( \$ % 9 \* ( 9 % & H " < = ( & \* 6 \* 9 % < # \* ( % < ' ( 9 % 6 G \* I ( ' \* ; \* < ' " < = ( 7 < ( D \$ \* ( & \* , \* % & # \$ ( % < ' ( E & " D " < = ( D % , 0 ( A \* 9 \* 6 7 ; ( % < ( % E % & \* < \* , , ( 7 F ( D \$ \* ( 8 " % , \* , ( % < ' ( E 7 & 6 ' 9 " \* E ( H 7 G ( 8 & " < = ( D 7 ( H 7 G & ( 7 E < ( 6 " D \* & % & H ( # & " D " # " , + (

(

(

(

(

! "\$ % & ' ( ) \* + , - . / 0 1 2 # \$ % - 3 2 0 & 4 3 - " # ) \* . & 5 - 3 6 " 0 7 & 8 " 6 2 # - & ' & A : {

&

@331\*4/A(

! "\$% "&' &() \*+,-. /012#\$) -320&43- "#) \* . &5-36 "07&8"62#-&' & A; {

&

= . /!5 . 8J=/D: !842!3: !>D8218GG?!>3K/4! F 6D/!2/=83G: !8A61=! . /!48DD8=6D@: !:3=18=364C!8!JD3:64/D!34!8GG!

A1=!48F /!A/34>!76D5/2!=6!ED3=/!8!5647/: :364!A?!L= . /!96F F 84284=N!0#>1?/4C!8\$(952 : I#\$%;+, !

'ZC![&C!((C!(\PC!&PPC!'\*)' (\*QR! ^6E/K/DC!564=D8D?!=6!E . 8=64/!F3> . =!/IJ/5=!67!8!JD3:64/D!A/34>!

76D5/2!=6!ED3=/!8!5647/: :364C!3=!3: !F82/!5G/8D! = . 8=! . /!48DD8=6D!3: !46=!34=/D/ : =/2!34! :3 F JG?!=/GG34>!

= . /!56F F 84284=!E . 8=! . /!E84=: !6! . /8D!: =8=34>L; !: 1: J/5=C! F ?!2/8D!96F F 84284=C! = . 8=! . 3: !

5647/: :364!3: !F6=: !G3B/G?!46=!E . 8=! ?61!8D/!1: /2!=6!D/8234> V !; !E3GG!26!46!G/ : : ! = . 84!/IJG834!

F ? : /G7C!34!8! : =?G/!67! F ?!6E4!5 . 66:34>C!D/>8D2G/ : : !67! . 6E! ?61! F3> . =!564:32/D! F ?!85=364: N!

0#>1?/4C!8\$(952 : I#\$%;+, ! [&QR! - . /!96F F 84284=!3: !5G/8DG?!7D1 : =D8=/2!842!J/DJG/I/2!A?!E . ?! = . /!

48DD8=6D!E3GG!46=!ED3=/!8!5647/: :364!E . 35 . !56476D F ! =6! = . /!IJ/5=/2! : =?G/C!/K/4!37! . /!

85B46EG/2>/: ! = . 8=! = . 6: /!E . 6!26!8D/!F/D/G?!=/GG34> ! . 3F!E . 8=! = . /? ! = . 34B! . /!LWE84=: X! =6! . /8DN!

0#>1?/4C!8\$(952 : I#\$%;+, !' ((QR! - . 3: !5647D64=8=3648G!D/G8=364: . 3J!A/=E//4! =E6! <3/=48F / : /!

5 . 8D85=/D: !6K/D! = . /!564=/4=67! = . /!48DD8=6D@: !5647/: :364!584!A/! : /4!8: !8!D/7G/5=364!67! #>1?/4@: !

34=/4=364: !E3= . ! = . /!46K/G!8: !8!E . 6G/R! #>1?/4C!E . 6!3: !ED3=34>!76D!8! <3/=48F / : /!8123/45/C!26/ : !

46=!34=/42! =6! F /D/G?!56F F3: /D8=/!E3= . ! . 3: !7/GG6E!5614=D? F /4C!A1=!85=3K/G?!5D3=3\_1/!A6= . ! = . /!

/IJ/5=/2!J8D=3/ : !00 F /D3584: !842! = . /3D!8GG3/ : Q!842! = . /!14/IJ/5=/2!0= . /!#6D= . /D4!%3A/D8=364! `D64=

! "\$%&'&()\*+,-./012#\$)-320&43-'#)\*. &5-36''07&8''62#-&'& A<l

&

K/D:364Q!0#>1?/4C!8\$+(952 : I#\$%;+,!(P\*)P(QR!









!"#\$%&'()\*+,-./012#\$)-320&43-'#)\*. &5-36"07&8"62#-&'& A@

&  
!

H6DB:!93=/2!

#>1?/4C!<3/=-! .84.R!LO 1=.6D!<3/=-! .84.!#>1?/4!M3:51:/:!i- ./!c? FJ8=.3e/D@!042!^3:!" :58J/!

`D6F!<3/=-48FRN!;4=/DK3/E!A?! -/DD?!"\$D6: :R!>, +. \$(?%,C!#8=3648G!S1AG35!T8236C!;45R!0#STQC!

&\*(ZR!

#>1?/4C!<3/=-! .84.R!! "#\$%&'()\*+,-./0%+&I2(I&3(#\$(4+2",5("6(7I, @(^8DK8D2!g43K/D:3=?!

SD/::C!&\*(ZR!

#>1?/4C!<3/=-! .84.R!c a g!M/J8D=F/4=!67!"4>G3: .j!0!964K/D:8=364!0A61=!9D/8=3K3=?C!&&!` /AR!

&\*&'C!c61=. /D4! a /=. 623:=-!g43K/D:3=?C!M8GG8:R!!

#>1?/4C!<3/=-! .84.R!8\$(952: I#\$%;+,R!#/E! f6DBC!\$D6K!/SD/::C!&\*(+R!

- ./!T/G15=84=!S: ?5 .6848G?:=R!L<3/=-! .84.!#>1?/4@: !- ./!c? FJ8=.3e/D!h!9647/::364C! -6D=1D/C!

842!-. /!S: ?5 .6848G?:=35!SD65/::RN!8\$+A+=BC#I&#D.5C\$"I&I-5.#E(!!k14/R!&\*( [C!

. =J:j,,./D/G15=84=J: ?5 .6848G?:=RAG6>:J6=R56F,&\*( [, \*Z,K3/=)=.84.)4>1?/4:)

:?FJ8=.3e/DR.=FCR!055/::/2!(! a 8?R!&\*&'R(

-D84C!U/4R!L- ./!%3=/D8D?!M1AA34>!67!9647/::364RN!D 4 F?G/(DBH=%CI#%"&.( "6(#\$(4 "3+, &( FI&'BI'+(?.. "C%I#%"&("6(?2+, %CIC!K6GR!( ' 'C!46R!&C!&\*( ]C!JJR!P('h(\R . =J:j,,263R6D>,( \*R(Z'&,JFG8R&\*( ]R(' 'R&RP('R!055/::/2!\!OJDR!&\*&'R(

(  
(

(





! "\$ % & ' ( ) \* + , - . / 0 1 2 # \$ % - 3 2 0 & 4 3 - " # ) \* . & 5 - 3 6 ' ' 0 7 & 8 " 6 2 # - & ' & 9 9 {

&

! "\$%&'&()\*+,-./012#\$)-320&43-("#)\*. &5-36"07&8"62#-&'& 9: {

&

!

!

!

(

!









! "\$%&'&

! "\$%&'&()\*+,-./012#\$)-320&43-"#)\*. &5-36"07&8"62#-&'& 9?!

&

2//J/D!D/82,23:51::364R!^6E/K/DC!E.8=!E8:!8F8e34>!8A61!=.3:!J6:!=E8:!=.8-!;!76142!8!7/E!

! "\$%&'&()\*+,-./012#\$)-320&43-"#)\*. &5-36"07&8"62#-&'& 9@{

&

`6D!F?!D/:/8D5.!64!:5.6G8DG?!:61D5/:C!;>6=K/D?!G15B?!87=/D!56F34>!85D6:;!L"8-34>!842!

c177/D34>!34!^84!q84>@:;!- ./!</>/=8D384N!A?!H64)9.14>R!- .3!:!61D5/!E8:!64/!67!F?!73D:=!

23:56K/D3/;!E.3G/!AD6E:34>!/.!G3AD8D3/;!842!3=!3:!=D1G?!8F8e34>!34!.6E!F15.!2/=83G!H64)9.14>