



!"#\$%&#'()\*+(-.&+./()\*+(!.0!  
12&&. -34(5(6 6(7(8 1(5(9 .:/%;%(!.0(1\$\*%%&!  
1<:"#=



.\$&)\$\$.!/(!\*\$#!O\$-. \$ ' !+,-%\$!&(!)= 1 \$.,4&(!O,2\*/.8!A./)94\$)!-8!  
 \*\$#!P\*.&92!E\$(\*\$.!6/.!"/.&#!&(!) ! J \$2\*\$\$.(!"#/9:#!7!"#\$!4%&22!  
 :.&)\$! ',%%!-\$!-&2\$)!/(!&\*\*\$()&(4\$>!A&.\* ,4,A&\*,/(!,(!2\$ 1 ,(&!  
 ),24922,/(>!&(!)/(!&!\$( )H/6H\*\$\$. 1 >!:.&)9&\*\$H%\$O\$%!A&A\$.>!\*#&\*!  
 &(&%8Q\$2!%\$ :&#!' .!-,-%,4&#!&2A\$4\*2!/6!3,(4/%(52!2A\$\$4#\$2!/!.!  
 4&.\$\$.7!!!  
 !

! RSTUVW!" " OC!E;X;3!LC3;Y;Z [ !ZI!" OC! [ = " ;Z [ ?\!  
 ] Z@ [ Y!NL7!3; [ EZ3 [ >!!  
 !!

] /9 (:!N\$(#2!384\$9 1 !PA\$\$4#!,(!)\$A\*#!  
 N\$K,4&(! J &.!&(!)\$K\$49\*,0\$!A/ ' \$.2!  
 P%&0\$.8 ^ 3,(4/%(#2!.\$2/%9\*,/(2!6./ 1 !\*#\$!2\*&\*\$!%\$: ,2%&\*9.\$!&(!)  
 E/( :.\$22!

3,(4/%(#2!\$&.%8!.\$&),( :?!\*#\$!+,-%\$!&(!)P#&<\$2A\$&.\$!  
 I&.!/6!\*8.&(\*2!&(!)\*8.&((8 ^ 8\$&.(,( :!6/.!&!A%&4\$!,(!#,2\*/.8!  
 !"#%&'\$%"&#( )?!!"#\$%&' ( )\*'+' ,"-.) / 0"#120#1-)-0,)\*&345)/0,  
 6 ,+" , 7)8'+%,)'3)-0,)9 3'-,4):-&- ,;<)\*%+%,-#. (/!  
 !  
 !!

RUT\_W!"\$\$Z@L!LCB@+3;E= [ !LZ+C!;P!PZ;3CD?\!3; [ EZ3 [ >!  
 3C=DCLPO;B>!" OC!LC=3!= [ D!" OC!;DC=3>!S` abHS` ac!  
 !!

E/ 1 A./ 1 ,2\$!/6!S` ab!  
 3,(4/%(!\*\$#! ' .,\*\$. ^ A/%,\* ,4&#!6.92\*.&\*,/(2!\*9.(!\*/



"#\$!\$9%/:,2\*?!O\$(.8!E%&8!&(!)d&4#&.8!"&8%/ . ^ ,)\$&%,2 1 !027!  
A.&4\*,4&%,\*8!

F&(2&2H [ \$-.&2<& ^ 4/ 1 A./ 1,2\$!/.!4/AH/9\*e!  
+&4<!/(!\*#\$!2\*9 1 A ^ B\$/.,&!PA\$4#!,(!)\$A\*#!

! D.\$)!P4/\*\*>!3,(4/%(>!&(!)\*#\$!%&'!

! !"#%&'0%"&#()/1'2%3#-#,4/'56'7#-8',. 9 9%(-"\$:':;:'  
<.( "-8"('\*\*',=/6'>?8%'\*#(/'.@''''2%"&%\$A''

!!

RUTSbW!!f"OC!C"CL [=3!P"L@YY3C!+C" J CC [!L;YO"!  
=[D!J LZ [Y?\!"OC!3; [EZ3 [HDZ@Y3=P!DC+= "CP!

!!

"#\$!4#&%%\$( :\$ ^ #/ ' !&(!)' #8!

D\$-&\*\$2!&2!\*#\$&\*\$\$.!

B&.\*,2&(!A.\$22>!A&.\*,2&(!2\*\$(/ :.&A#8!

[ &\*, / (&%!&\*\*\$(\*, / (!

B/%,\*,4&%!.\$29%\*2!

! D,24922!\$&4#!R/ .! 1 /2\*W!)\$-&\*\$2 ^ %&' 8\$.%8!2\*8%\$!/.!A/%,\*,4&!  
.\$#\$\*/.,4e!

! !

!!

!!

RUTSVW!g6#)\$%&77 8 &''''&32,)( &9,:1;eh!

!!

!!

RUTUcW!!fL;YO"!N=FCP!N;YO"?\!3; [EZ3 [!= "!EZZBCL!  
@[ ;Z [!g6,\$%)\*!.,Ah!

!!

; (0,\*&\*, / ( ^ A/%,\*,42!, (! [ ]!



J /.2#,AA,( :!,(!+.//<%8(!&\*!+\$ \$4#\$.#2!4#9.4#!  
E#&( :,( :!\*#\$!2A\$ \$4#!-\$4&92\$!/6!"4,0,4\!0\$(9\$!  
L/%\$!/6!\*#\$!A.\$22!  
"#\$!.// 1!' #\$..\$!,\*!#&AA\$(\$)^ 2\$\*\*,(:!\*#\$!24\$(\$!  
"#\$!\_!2A\$ \$4#\$2!,(!/(\$ ^ \*#\$!\*\$K\*!  
"#\$!6/9()\$.2\$#,(\*\$(\*!  
=AA\$&%,(:!\*/\*!#\$!P/9\*#!R6&%2\$%8eW!  
=AA\$&%,(:!\*/\*!L\$A9-%,4&(2!  
; 1 A&4\* ^ ,(!BL!&(!A/%,\* ,42!  
S`ib!E/(O\$(\*,/(!  
**!"#\$%&'0%"&#()/1'B#;+#,"+'"\$)4%("+= "&1**



!'"#\$%&' 0%'&#()1' C"--8%7'D.+;\$%#,8'>E('-8%'F''+%;:'.@'-8%'  
G\$:'B. (%/1'2#(, .+ (#/'B#;+#, "'H\$"-.\$:''' (&'8%'I . 9#( )' .@'-8%'  
I#3#+' J "\$A'

!!  
!!

! R\_TkW!!! "OC!=3NZP"!EOZPC [ !BCZB3C?!3; [ EZ3 [ !=P!!  
BLCP;DC [ "HC3CE"! = [ D!O;P!CXZ3X; [ Y!+;+3;E=3!  
EZ [ ECB";Z [ !ZI!=NCL;E=!

!!

3\$\*\*\$.2!6./ 1!\*#\$!A.\$2,)\$(\*H\$%\$4\*!.\$692,( :!\*/!4/(4,%,&\*\$!  
B\$.,%2!/6!\$%\$4\*/.&%!0/\*\$!4/9(\*!  
B\$.,%2!/6!,(\*\$..\$: (91 ^ 2\$4\$22,/( ^ &\*\$\$. (&\*,0\$!:/0\*!,(!P/9\*#!  
E&-,( \$\*H 1 &<,( :!  
Y.\$&\*!I&.\$ '\$%%!&)).\$22 ^ 4/(49..\$(\*!.\$%,&(4\$!/(!\*.&)\*,/(!  
RY\$/.: \$! J &2#,( :\*/(W!&(!)Y/ )!

! PA\$4#\$2!\$(!./9\*\$ ^ 6&,%9.\$2!,(!;()),&(&!&(!)Z#, / ^ 4/(692,/(!

! "#\$!:. \$&\*!+, -%,4&%!&%%92,/(2?!3,(4/%(!,(!" .\$(\*/(!&(!)!)&\*!  
;())\$A\$()\$(4\$!O&%%!

3,(4/%(!,(! [ ] ^ 4&(!&!4,\*8!2\$4\$)\$ ^ %\$:&%!),24922,/(!' ,\*#!  
9(<(/ ' (!)/491\$( \*2!

P\$4\$22,/(>!\*.\$&2/(>!&(!)%/8&%\*8!R=( ).\$ '!G/#(2/(>!P/9\*#\$.(!  
\$K4\$A\*,/(W!

"#\$!&-/.\*\$)!A\$&4\$!4/(O\$(\*,/( ^ -.\$&<,( :!%\$:&%!&(!)  
4/(2\*,\*9\*,/(&%!A.\$4\$)\$(\*!

! 3,(4/%(!&(!)\*#\$!"2#&)/ ' \!R/.,:,(&%!S\_ W!& 1\$( ) 1\$(\*\*/\*!#\*#!  
4/(2\*,\*9\*,/(!





F\$\$A, (:!E / ( : . \$22!& ' &8!

E&%, ( : !2A\$4, &%!2\$22, / (!6 / .!G9%8!c !

C&.%8!4&%%2!6 / .!) \$0 / \*, / (!& ( )!A.&8\$.!

I, .2\*! -% / / )!

" # \$! kb!) &8! 0 / %9 ( \* \$\$. 2>!. \$H\$ (% , 2\* 1 \$ (\*>!& ( )! \* # \$! 4. &4< ) / ' ( ! / ( !  
A. \$22!) , 22\$ (\*! , ( ! [ ] !& ( )! \* # \$! + / . ) \$ . ! P \* & \* \$2! & 6 \* \$ . ! + 9 % % ! L9 ( !

! ; 2! 2\$4\$22, / (!4 / 0\$. \$) ! , ( ! \* # \$! E / ( 2\* , \* 9\* , / ( e!

! ! " # \$ % & ' \$ % " & # ( ) / 1 \$ ! " # \$ % & ' ( ) \* ' + , " - . ) / 0 " # 1 2 0 # 1 - ) > % % ) - 0 , )

\* & 3 4 < ) / % + % , - # . ( / 6 ' # ( , + 4 & # ( ) ' > ? 8 % ! \$ " : % \$ ' - 8 " - ' W ( # - % & ' - 8 % '

I . ( - # ( % ( - ' + ' I . ( ) \$ % / / R A " "

! !

!!

R\_T\_bw! "\$\$OC [ ECIZL " O! = [ D! I ZL CXCL! ILCC? \! " OC!!

CN = [ E; B = " ; Z [ ! BLZE 3 = N = " ; Z [ ! = [ D! " OC! + ZZ F! ZI!

CP" OCL!

!!

" # \$! - , : ! , 229\$! / 6! \* # \$! ' & . ^ ) , ) ! 3 , ( 4 / % ( ! # & 0 \$! \* # \$! . , : # \* ! \* / ! & 4 \* !  
& : & , ( 2\* ! 2 % & 0 \$ . 8!

" # \$! - , : ! % , \$ 2 ^ A. \$ A & . , ( : ! \* # \$! A 9 - % , 4! 6 / .! \$ 1 & ( 4, A & \* , / ( ! ' , \* # ! \* # \$!  
Y. \$ \$ \$ 8! % \$ \* \* \$ . > ! \* # \$! # / 2\* , % \$! : . \$ \$ \* , ( : ! \* / ! = 6. , 4 & ( H = 1 \$ . , 4 & ( !

6. \$ \$ ) 1 \$ ( ! & \* ! \* # \$! J # , \* \$! O / 92\$!

B / % , \* , 4 & % !



!



!  
!!

( )"=P.YZD!Y;XCP!@P!" Z!PCC!" OC!L;YO "?!  
3; [EZ3 [ #P!PCEZ [ D!; [ =@Y@L=3!=DDLCPPI

!"#\$%&'0%"&#()/1'<."-8"('\*",=/6'/0,)6#(,)?)81'%4)  
/#2,-0,"<>?%++#()'-8%\*'-.\$.NA'C%#\$'\*+.3%#,8#=6'?8%'  
?8%.+.)#"'(.@'-8%'O9%\$#, "'(E&%'RA'

!!

%&' ( ) \* + ( , , -. /\$0\$\$

+\*(1-&2+(,,-././34(54-63((/3478(/98(/3,54(:-/1.2

/%. ;-(, &/9 :-/1.2/ -/ 1<3<6(3.9&=