

! "#\$%&' ( ) % \* + , - . / ( &  
! "#\$%&' ( ) \* + , - " ( " . & + " , / 0 ( 1 " 234 5 , 6 7 / % % 898 &&  
: ; 9 & ' " < < " % = ) 0 ( \$ - & > ? ) % 7 ) 4 & ' - ) # \$ % 7 \$ & @ / ( ( 4 & 5 > & 98 ; AB &  
A : BCDD8C8EF ; && ) 2 / 30 # 0 I I O \$ - J I , H ) K 7 &

**! / 0 1 % + # 2 3 &**

&

89:8& + , L 4 & + " , / 0 ( & M & ! ) - 0 ? / " 20 ( & + , / ) % , ) # 4 & @ 0 2 ? 0 2 K & N H @ H & ' - 0 % & + , - " " ( " . & 0 7 I ( / , & @ ) 0 ( \$ - &  
L / # # ) 2 \$ 0 \$ / " % P & Q R , , 7 \$ 0 \$ / " % 0 ( & T U S " # 7 2 ) # & 0 # & + " , / 0 ( & L ) \$ ) 2 < / % 0 % \$ # & " . & > \* / % \* V &

89:8& + , L 4 & T S / K ) < / " ( " \* W 4 & X % / ? ) 2 # / \$ Y & 0 0 2 / # & Z [ C + 7 K & ! " # \$ % & ' ( ) \* + ) ' , \$ & - ' . / + 0 / + ( ' I 2 . 2 '  
3 - / % ' 4 5 - # # 6 ' # 7 ' 8 9 : 6 \$ 5 ' . ) / 6 & - ; ' &  
L / # # ) 2 \$ 0 \$ / " % P & Q T U S " # / \$ / " % # & K & ) & N 2 0 ? 0 / ( P & L Y \$ ) 2 < / % 0 % \$ # & + " , / 0 7 U & K ) & ( 0 & \ / ) / ( ( / # # ) < ) % S V &

899E& 5 + , 4 & + " , / 0 ( & M & ! ) - 0 ? / " 20 ( & + , / ) % , ) # 4 & @ 0 2 ? 0 2 K & N H @ H & ' - 0 % & + , - " " ( " . & 0 7 I ( / , & @ ) 0 ( \$ - &

899D& ! > 4 & 1 " < ) % & M & 6 ) % K ) 2 & + \$ 7 K / ) # & 0 % K & T % \* ( / # - & ] / \$ ) 2 0 \$ 7 2 ) 4 & 1 0 # - / % \* \$ " % & X % / ? ) 2 # / \$ W & / % &  
+ \$ H & ] " 7 / # & ^ # 7 < < 0 & , 7 < & ( 0 7 K ) \_ &&

&

**% 1 % / ! 4 # 1 & % 5 5 2 # 3 + 4 ! 3 + ) &&**

&

8 + \$ < / + = ' / > > # \$ % & < ) % & ? ' &

8989CS2) # ) % \$ & > # # " , / 0 \$ ) & 0 2 " . ) # # " 2 4 & + , - " " ( " . & + " , / 0 ( 1 " 234 ! " # \$ " % & ' " ( ) \* ) 4 & ' - ) # \$ % 7 \$ & @ / ( ( 4 & 5 > &

89: ; C8989& > # # / # \$ 0 % \$ & 0 2 " . ) # # " 2 4 & + , - " " ( " . & + " , / 0 ( 1 " 234 ! " # \$ " % & ' " ( ) \* ) 4 & ' - ) # \$ % 7 \$ & @ / ( ( 4 & 5 > &

89:8C89: ; & O " # \$ K " , \$ " 20 ( & ` ) ( ( " = 4 & ' ) % \$ ) 2 & . " 2 & O " S 7 ( 0 \$ / " % & 0 % K & L ) ? ) ( " S < ) % \$ & + \$ 7 K / ) # 4 & @ 0 2 ? 0 2 K &  
X % / ? ) 2 # / \$ W 4 & ' 0 < I 2 / K \* ) 4 & 5 > &

4) 5 # % ( / + = ' / > > # \$ % & < ) % & ? ' / % ( ' / 7 \$ 6 \$ / & \$ # % ? ' &

898FCS2) # ) % \$ & > K a 7 % , \$ & > # # " , / 0 \$ ) & 0 2 " . ) # # " 2 4 & L ) S 0 2 \$ < ) % \$ & " . & + " , / 0 ( & 0 % K & ! ) - 0 ? / " 20 ( & + , / ) % , ) # 4 &  
& @ 0 2 ? 0 2 K & N H @ H & ' - 0 % & + , - " " ( " . & 0 7 I ( / , & @ ) 0 ( \$ - &

8988C898F& \ / # / \$ / % \* & b ) # ) 0 2 , - ) 2 4 & L ) S 0 2 \$ < ) % \$ & " . & T % ? / 2 " % < ) % \$ 0 ( & @ ) 0 ( \$ - 4 & ! " # \$ " % & X % / ? ) 2 # / \$ W &  
+ , - " " ( " . & 0 7 I ( / , & @ ) 0 ( \$ - 4 & ! " # \$ " % & 4 & 5 > &

89: ; C898: & \ / # / \$ / % \* & + , / ) % \$ / # \$ 4 & ' ) % \$ ) 2 & . " 2 & ' " < < 7 % / \$ W C I 0 # ) K & b ) # ) 0 2 , - 4 & L 0 % 0 C ` 0 2 I ) 2 & ' 0 % , ) 2 &  
[ % # \$ / \$ 7 \$ ) 4 & ! " # \$ " % & 4 & 5 > &

89: ; C8989& \ / # / \$ / % \* & + , / ) % \$ / # \$ 4 & ' ) % \$ ) 2 & . " 2 & O " S 7 ( 0 \$ / " % & 0 % K & L ) ? ) ( " S < ) % \$ & + \$ 7 K / ) # 4 & @ 0 2 ? 0 2 K &  
X % / ? ) 2 # / \$ W 4 & ' 0 < I 2 / K \* ) 4 & 5 > &

&

&

5!!'6"!7#!8!/&50\*' #1%+#23)&

&

X%K)2(/%)&/%K/,0\$)#&7%K)2\*20K70\$)4&<0#)\$2c#4&K",,\$"20(4&"2&S"#SCK",,\$"20(&\$20/%)&)&

&

:H )9::9;<-&!('(-&>2"204&dH+H4&!7,-I/%K)24&5Hk^898;\_Hk+7SS"2\$/%\*&R!C6ef#k/%&OI"2\$/%"C  
2)#\$/,\$/?)&#S\$)#g>&S(OWI""3&."2&/%#\$/7\$/%"#Hk"@A@'898;hFF8^i\_PA:FjA:;Hk

&

8H )9::9;<-&!('(-&\_5\_,d)\$,-%/)4&+H5H4&>2"204&dH>H4&!7,-I/%K)24&5Hk^898;\_HkX+&RI#)\$2/,/O%  
6W%),("\*/#&#&O)2,)/?)Kk[<S0,\$#&"&O"#jB#: :?'0"/5C?#%&+\$0\$)&>I"2\$/%"&!0%#Hk"@A@'  
D)&,#+C'E>)%2&898;hB^:\_P)8FD8:9EH&

&

FH )9::9;<-&!('(-&] "?)a"W4&5H'H4&+,-%)/K)24&LHdH4&L\_@)"2%4&6H4&L/OIC ]/%-02\$4&eH4&O)\$)2#4&+HTHk  
^898;h&/%&S2)##\_HkT%\*0\*/%\*&("=C=0\*)&="23)2#&/%&-)0(\$-&0%K&=)(I)/%\*&#72?)W&2)#)02,-P&  
+&20\$)\*#&.2"<&./?)&","7S0\$/%"0(&#7K/)#Hk@<)+\$5/%"#9+%/6'#7'89:6\$5'. )/6&-2&

&

;H )9::9;<-&!('(-&5\_,d)\$,-%/)4&+H5H4&>2"204&dH+H4&!7,-I/%K)24&5Hk>2)&#S\$)&OI"2\$/%"&IO%#&0%&

:9H ! "%K4& ]H4&+ / < < "%#4&T4&





FBH \0%&@)K)(4&dH4&5 )a{0C67)?020&[H

;AH )9: :9;<-&! (' (4&@72\$0K"4&LH>H4&R3), -73=74& 'H>H4&N0<)2#4&+H ]H4& f )(#"%4& 'H ' H4& d /<4&+H+H4&  
1 0\*%)24& 6HbH4&+"2)%#)%4& 6Hk^89: ;\_HkTUS"#72)&\$" &="23S(0, )&0I7#)&0%Kk2/#3&" .&/%a72W&0<"%\*  
- )0(\$-&, 02)&="23)2#Hk@<)+\$5/%'"#9+%/6'#7'K%( 9?&+\$/6'A )(\$5\$%)R'DB^8\_4&888CF8Hk&

&

;BH T?0% ".4&>HTH4&)9: :9;<-&! (' (4& ' 02\$"%4& 5 H4& ' 1)2%/ , -" =4&+H4&z/%#4& 5 H4& ] ), ( )2, 4&>H4&L)#, 0\$-04&>Hk  
^89: ;\_HkL")#&"I)#/\$W&<"K/.W&\$-&)&2)(0\$/ "%#- /S&I)\$=) )%&)US"#72)&\$" &" , ,7S0\$/ "%0(&.0, \$"2#&0%Kk  
<7#, 7(" #3)( )\$0(&K/#"2K)2#&/%&<)%m&b)#7(\$#&.2" <&\$-&)&6 >zT ]& , " -"2&#&\$7KWH&8^E4'E%)R'U^:9\_P&  
) :9EAFHk

&

;iH 5 "%\$)14&oHdH4&)9: :9;<-&! (' (-&6(W<"724& 5 H 5 H4& ! )23<0%4& ]H`Hk^89: ;\_HkN-)&K/? )2\* /%\*  
\$"S"\*20S-W&" .&="23C.0</ (W&(/. )&0<"%\*&X+&="<)%&IW&)K7, 0\$/ "%0(&?) (Hk8#>96/&\$#%'I )?) /+5-'  
/%( '8#6\$5='I )0\$ ) , R'WW4&A8ECA; iHk&

&

;EH f )(#"%4& 'H ' H4& 1 0\*%)24& 6H4& ' 0I0%C 5 02\$/%)14&>H4& ! 7US"%4&RH 5 H4& d )%=" "K4& ' H4&)9: :9;<-&! (' (4&  
@0#- /<"\$"4&LH4&@ "S, /04&d H4&> ( )%4&oHLH4&+"2)%#)%4& 6Hk^89: ;\_Hk ' 0% , )2&2/#3C2)(0\$)K&I)-0?/"2#P&  
=-0\$&02)&\$-&)&K/.. )2)%\$/0(& , "%\$2/I7\$/ "%#&" .&0\*)&\*2"7S&/%&\$-&)&="23S(0, )&)%?/2" %<)%\$m&@<)+\$5/%'  
"#9+%/6'#7'8+) )%&\$0)'A )(\$5\$%)R'XP^F\_4&+7SS(<)%\$&:4&+ ;8C+D:Hk&

&

D9H )9: :9;<-&! (' (-&6(W<"724& 5 H 5 H4&L)#, 0\$-04&>H4& ] ), ( )2, 4&>H4&z/%#4& 5 H4& 6 "(KI)2\*4& 5 H4& ! )23<0%4&  
]H`Hk^89:F\_Hk !/"<), -0%/ , 0(&0%K&S#W, -"#", /0(&" , ,7S0\$/ "%0(&)US"#72)#P&o"/%\$&S2)K/, \$"2#&" .&  
.7% , \$/"%0(&-)0(\$-&/%&2)\$/2)<)%\$H&@ (0/%5)? '\$%^\$7)'3#9+?'I )?) /+5-R

&

DAH R3), -73=7k ' H>H4kT(k>WOK/k>H4kNO<)2#4k+H4k)9: :9;<k!( ' (-k ! )23<0%4k JH`Hk^89:8\_Hk@"7#)- "(Kk  
. " "Kk/%#7../,/)%, W4k./%0%, /O(k#\$20/%4k = "23C.0</ (Wk#\$20/%k0%KkK)S2)##/? )k#W <S\$" <#k/%k\$- )k  
= "23/%\*k, (O##P&b)#7(\$#k.2" <k\$- )k 1 "23k`0</ (Wk0%Kk@)0(\$- k#\$7KWHk@ < )+\$5/%''#9+%/6'#7'89:6\$5'  
. )/6k-R'STQ^:\_4k:8AC:FFHkk

&

DBH L)#, 0\$-0k>H4kL7?0(k+H4k)9: :9;<k!( ' (-k \ 7"\$S" & 6Hk^89:8\_HkL/./, 7(\$k = "23/%\*k, "%K/\$/"%#4k  
2)\$/2) < )%\$4k0%Kk2). "2<k/%k`20%, )Pk 1 -0\$&02)k\$- )k2"()#k" .k\$- )k < )K/, 0(k#" , /O(k = "23)2k0%KkS2/ <02Wk  
, 02)kS-W#/, /O%mk . )/6k- '/%( '4#5\$/6' L#+CR'WY^:\_Hkk

&

X%K)2k2)?)=k

&

DiH ` "2#- )K)%k+/K"/(4kTH4k 6W%/%\*kTHk ! H4k ! (/kK" =4k d H4k ' )K#\$20%K4kTH4k+OII0\$-4kTH JH4k ! 27(/%4k  
THk 1 "23S(0, )& 5 /#\$2)0\$ < )%\$k" .k+= )K/#-k@)0(\$-k ' 02)kO2" .)##/"%0(#PkO2) ?0()%, )kO%KkO)2S)\$20\$"2#k  
0, 2"##kO2" .)##/"%4k+)U4kO%Kk ! /2\$-k ' "7%\$2WHk^b) ?/#)KkO%Kk2)#7I < /\$

ADH 5 , d) \$, - % / ) 4 & + H 5 H 4 & d ( ) / % 4 & T H d H 4 & > 2 " 20 4 & d H + H 4 & ! 7 , - I / % K ) 2 4 & 5 H 4 & ) 9 : : 9 ; < - & ! ( ' ( & Q [ & . ) ) ( & ( / 3 ) & \$ - ) 2 ) c # & O & S " ( / \$ / , / O % & / % & \$ - ) & 2 " " < V P & O 2 " ? / K ) 2 & S ) 2 , ) S \$ / " % # & " . & \$ - ) & / < S O , \$ # & " . & # \$ O \$ ) & O I " 2 \$ / " % & I O % # & " % & S - W # / , / O % C S O \$ / ) % \$ & 2 ) ( O \$ / " % # - / S # H & ^ X % K ) 2 & 2 ) ? / ) = \_ H & &

AAH \ " # # 4 & 5 H 1 H 4 & O " \$ ( O 4 & + H 4 & ) 9 : : 9 ; < - & ! ( ' ( 4 & 1 0 \* % ) 2 4 & 6 H b H 4 & O ) \$ ) 2 # 4 & + H T H & ' " % # / K ) 2 / % \* & \$ - ) & , " % # ) n 7 ) % , ) # & " . & < / % / < / 1 / % \* & \$ - ) & 2 " ( ) & " . & % " % C 7 % / . " 2 < ) K & S ) 2 # " % % ) ( & / % & ) < ) 2 \* % , W & 2 ) # S " % # ) H & ^ X % K ) 2 & 2 ) ? / ) = \_ 2 & &

= " % 3 + & ) 0 5 5 2 " + &

' 7 2 2 ) % \$ &

898 ; C 8 9 8 B &      b 9 : & R @ 9 : 8 A A ; &  
f O \$ / " % 0 ( & [ % # \$ / \$ 7 \$ ) & . " 2 & R , , 7 S O \$ / " % 0 ( & + 0 . ) \$ W & O % K & @ ) O ( \$ - &  
5 ) % \$ O ( & - ) O ( \$ - & O % K & = " 2 3 C

' " <S()\$)K&

89:AC898: &

8X:ER@99i iA:C:9&
f 0\$/ "%0(&[#\$/7\$)&. "2&R, , 7S0\$/ "%0(&+0.)\$W&O%K&@)0(\$-&
@02?02K&N&@H& ' -0%&+, - " ("& .&07I(/, &@)0(\$-& ' )%\$)2&. "2& 1 "23&@)0(\$-4&0%K& 1 )((C
I)/%\*V&^ ' )%\$)2&O[P& 6("2/0%&+"2)%#)%\_&
N"\$0(&, "#\$#P&~:4DFA4Fi i H&&
b "( )P&O2" a), \$& ] )OK4&Q@ "#S/\$0(&="23&"2\*0%/10\$/ "%P&>##)##/%\*&-)0(\$-&/ <S0, \$&=/ \$-&
O&(" %\*/\$7K/%0(&K0\$OIO#)V&

89: ;C89: i &

Bd9: &R@9:9ABFC98&&
f 0\$/ "%0(&[#\$/7\$)&. "2&R, , 7S0\$/ "%0(&+0.)\$W&O%K&@)0(\$-&
} 70%\$/ .W/%\*&), "% " </, &0%K&-)0(\$-& ..), \$&#& " .&S#W, - "#", /0(&="23S(0, )&)US"#72)#&
N"\$0(&, "#\$#P&~F8;4999&
b "( )P&O2/%, /S0(&/%?)#\$/ \*0\$"2&

899BC89: A&

DX:ER@99i iA:C9B&
f 0\$/ "%0(&[#\$/7\$)&. "2&R, , 7S0\$/ "%0(&+0.)\$W&O%K&@)0(\$-&
@02?02K&+, - " ("& .&07I(/, &@)0(\$-& ' )%\$)2&. "2& 1 "23&@)0(\$-4&0%K& 1 )((CI)/%\*H&&
b "( )P& ' "C/%?)#\$/ \*0\$"2&^O2/%, /S0(&/%?)#\$/ \*0\$"2&P& 6("2/0%&+"2)%#)%\_'

89:D&

N)0, -/%\*&O%K& 5 )%\$"2/%\*&TUS)%#)&^N> 5 T\_& 620%\$&&
! "#\$ "%& ' " ( ) \* ) &R. / , ) & " .& \$ - ) & O 2 " ? " # \$ &
N"\$0(&, "#\$#P&~:4BE9H&&
b "( )P&O2/%, /S0(&/%?)#\$/ \*0\$"2&

89:FC89: ; &

@02?02K& ' )%\$)2&. "2&O" S7(0\$/ "%&O%K&L?)("S<)%\$&+\$7K/)##&
N/<)&7#)&O<"%\*&2)\$/2)##&/%&\$-\$`2)% , -& 6 > zT ] & ' " - "2SP&L)#, 2/S\$/ "%4&(/. )&, "72#)&
S2)K/, \$"2#4&O%K&-)0(\$-&O##", /O\$/ "%#H&
N"\$0(&, "#\$#P&~D4AA9&
b "( )P&O2/%, /S0(&/%?)#\$/ \*0\$"2&

89:8C89:F&

N; 8&R@99i ; :A4&@02?02KC f [R+@&TK7, 0\$/ "%&O%K&b)#)02, -& ' )%\$)2&^Tb ' \_H&&
O7I(/, &S"/, W&, -0%\*)#&/%&%72#/%\*&- "<)&2)/<I72#<)%\$&O%K&-)0(\$-& " .&K/2), \$C, 02)&
="23)2#&
N"\$0(&, "#\$#P&~:94999&
b "( )P& ' "CS2/%, /S0(&/%?)#\$/ \*0\$"2&^ ' "CS2/%, /S0(&/%?)#\$/ \*0\$"2P& ' 0##O%K20&
R3), -73=7\_&

899EC89: 8&

L[ 5 &bY#)07&K)&b), -)2, -)&`20% ,/(/)%P&+0%\$Y4&T%?/2"%%<)%\$&N"U/, ("\*/)H'
TUS"#\$/ "%#&K)&N20?0/(P&LY\$)2</%0%\$#&+" , /07U&K)&(O& \ /)/( /##<)%\$&&
N"\$0(&, "#\$#P&F&W)02#&S2)K", \$"20(&#0(02W&O%K&I)%). /\$#H&&
b "( )P&O2/%, /S0(&/%?)#\$/ \*0\$"2&^#S " # " 2P& 5 02, )(& 6 " (KI)2\* \_&
&





898;CS2)#)%\$& !27%0&] "S)1&  
 8988CS2)#)%\$& b/,02K"L/) \* " &+702)1&b "a0#&  
 89:EC8988& d/<I)2(W&@"30%#"%"&  
 89:iC8989& L0)& 5 0\*(0(0% \*&&  
 89:BC89:E& o7(/)& 5 /(())2&&  
 L/##)2\$0\$/ "%& ' " <<(/\$\$))& 5 )<I)2&  
 898FCS2)#)%\$& f/,3/)& !72%)W&!V#?&#%'3#66)\*)'L\$66\$/<'J'3#%%)66'45-##6'#7'D9+?%\*%&  
 8989C898;& T(/#0I)\$-&+\$(#"%&! . /+0/( 'I2. 2'3 -/%'45-##6'#7'89:6\$5' . )/6&-;'  
 89:BC89:E& 00<)(0&] /%1)2&!V#?&#%'3#66)\*)'L\$66\$/<'J'3#%%)66'45-##6'#7'D9+?%\*%&  
 89:AC89:i& 00I(" & 60/\$0%& b "##/&&

**5 ! ! " 6 " ! 7 # ! 8 ! / & 1 2 3 H ! " ! 3 1 ! & 5 " ! ) ! 3 + % + # 2 3 ) &**

H 5 , d)\$, - %/ )4&+H& 5 H4&d()/%4&T H&d H4&>2"204&d H&+H4& ! 7, - I/%K)24& 5 H4&M&)9: :9;<-&! (& ^pqqpu4&  
 o0%702W\_H&N-) /<S0, \$#&" .&L " II#&?H&o0, 3# " %& " %& 2)(0\$/ " %& - /S#&I)\$ = ) ) %& & S0\$/ ) %& #& 0% K&R ! C 6 e f #& / %& &  
 #S0\$)#& = /\$ - & 2)#\$2/, \$/?)&OI "2\$/ " %& (0=#H&+ , /) \$W&. "2&+ , /0(& 1 "23&b)#)02, -4&+)0\$\$(-4& 1 >H&  
 &  
 8H )9: :9;<-&! ('(4& 5 , d)\$, - %/ )4&+H 5 H4&>2"204&d H>H4& ! 7, - I/%K)24& 5 H&^898; 4&+)S\$) <I)2\_H&L2/?)2#&" .&  
 <"20(&K/#\$2)##&0<"% \*& " I#\$)\$2/, /0% C\*W% ) , " (\*#/#\$#&/%& & #S0\$)#& = /\$ - & S"#S C B #: : ?&OI "2\$/ " %& I0%#&  
 [%\$)2K/#, /S(/%02W&>##" , /0\$/ " %& . "2&O "S7(0\$/ " %& @)0(\$ - & +\$7K/) #4& ! 0(\$ /< "2)4& 5 L H&  
 &  
 FH )9: :9;<-&! ('(4& 5 , d)\$, - %/ )4&+H 5 H4&>2"204&d H>H4& ! 7, - I/%K)24& 5 H&^898F4&R, \$ " I)2\_H&[ <S0, \$#&" .&  
 S"#S C B #: : ?&#S0\$)&OI "2\$/ " %& I0%#& " %& " I#\$)\$2/, /0% C\*W% ) , " (\*#/#\$#&[%\$)2K/#, /S(/%02W&>##" , /0\$/ " %& . "2&  
 O "S7(0\$/ " %& @)0(\$ - & +\$7K/) #4& ! 0(\$ /< "2)4& 5 L H&  
 &  
 ;H )9: :9;<-&! ('(4& 1 /((/#4& 5 H4& 1 )##) (/ %34&>H4& 1 0% \*4&NH4&@0\$, - 4&T H T H4& 1 /#)4& ] H>H&^898F4&o7%)\_H&  
 >##" , /0\$/ " %& I)\$ = ) ) %& a " I & , "%\$2" (&0%K& . ) , 7%K0I/( /SW&/%& & O&S2) , " % , )S\$/ " %& , " - "2\$H&+ , /) \$W&. "2&  
 TS/K) < / " (\*# / , & b)#)02, -4&O "2\$(0%K4&R b H&  
 &  
 DH )9: :9;<-&! ('(4& f /)(#)%4& d H4& ' 7% %/ %\* - 0<4& ' H4&@0<<)24& ] H&^89884&R, \$ " I)2\_H& 1 "23&"2\*0%/10\$/ " %& &  
 0#&0& , "2)&K/< ) %& #/ " %& & " .&N" \$0(& 1 "23)2&@)0(\$ - P&N" = 02K&0%&)US)2\$& , " %& #) %& #7#H&N - /2K&[%\$)2%0\$/ " %& 0(&  
 +W<S"#/7<&\$ " & >K?0% , )&N" \$0(& 1 "23)2&@)0(\$ - 4& ! )\$ - )#K04& 5 L H&  
 &  
 AH ' 02(# " %& 4& ' H4& ' - 02\$/ )24& d H4& 6 " / %\* #4&NH ' H4&)9: :9;<-&! ('(-&X20K04& ] H&^89894&o0%702W\_H& f [ @& , 02) )2&  
 K)?) ("S< ) %& \$& ^ d \_&0=02K#&. "2&# " , /0(& = "23&. 0, 7(\$WPK TUS)2/) % , )#&0%K&0K?/, .& . 2 " <&2) , ) %& & 0=02K) )#H&  
 b "7%K\$0I(&S2)#)%\$0\$/ "%4&+ , /) \$W&. "2&+ , /0(& 1 "23&0%K&b)#)02, -4& 1 0# - /% \*\$ " %& 4&L H ' H&



\$- )& ! "#\$"%&@ "#S/\$0(& 1 "23)2#&@)0(\$- &+\$7KW&^ ! @ 1 @+\_&" .&\$- )&@02?02K& ' )%\$)2&. "2& 1 "234&@)0(\$-4&  
0%K& 1 )((I)/%\*H&R20(&S2)#)%\$0\$/ "%4&TUSO%K/%\*&b)#)02, -&002\$%)2#- /S#P&+\$0\$)&R.&N- )&+, /)%, )&  
' "%.)2)%, )&^ f [R+@\_&>72"204& ' R&

&  
:A&

/%\$)22)(0\$/"%#- /SH&R20(&S2)#)%\$0\$/"%4&>O>• f [R+@& 1 "234&+\$2)##4&0%K&@)0(\$- &<))\$/%\*4&>\$(0%\$04&  
6 >H&

&

8DH )9: :9;<-&! ('(-&S2)H(4&H)O/O&67) ?0204&[H4&6(W<"724& 5 H 5 H4& ! )23<0%4& ] `H&^89:D4&o0%702W\_H& ]/.)\$/<)&  
-/\*-C#\$20/%&="23P&00##/?)&a" I##K72/%\*&="23/%\*&(/.)&0(#"&S2)K/, \$&S"#S2)\$/2)<)%\$&,"\*%/\$/?)&

/<S0/2<)%SH&R20(&S2)#)%\$0\$/"%4&>O>• f [R+@& 1 "234&+\$2)##4&0%K&@)0(\$- &<))\$/%\*4&>\$(0%\$04& 6 >H&

&

8AH )9: :9;<-&! ('(-& 5 )a/O&67) ?0204&[H4&6(W<"724& 5 H 5 H4& ! )23<0%4& ] `H&^89:D4&o0%702W\_H& ]/.)\$/<)&  
="23C.0</(W&)US"#72)##&S2)K/, \$&#7I#)n7)%\$&<"2\$0(/\$W&2/#3&0<"%\*&"(K)2&><)/,0%&="<)%H&R20(&  
S2)#)%\$0\$/"%4&+" ,/)\$W&."2&+" ,/0(& 1 "23&0%K&b)#)02, -4& f )=&R2()0%#4& ]>H&

&

8BH

F;H )9: :9;<-k!( '(-k!)23<0%4k]H`Hk^89:F4k>S2/(\_Hk b)\$/2)<)%\$&0%Kk#" ,/0(k)%\*0\*)<)%\$&/%&\$- )k`2)% , -k  
6 >zT]k , " - "2\$HkR20(kS2)#)%\$0\$/%"4kO"S7(O\$/%"k>##" ,/O\$/%"k".k><)/,0k0%70(k<))\$/%\*4k f )=k  
R2()0%#4k] >Hk

FDH )9: :9;<-k!( '(-k6 "(KI)2\*5 H4k 1 74k } H4kL)#,0\$-0k>Hk^89: :4kR, \$"I)2\_Hk ' 0%&0k#/%\*( )C/\$)<k< )0#72)&  
0##)##&S-W#/,0(k("OKkO\$= "23m&>0(W#)#k.2" <&\$- )k6 >zT]k & ' " - "2\$HkO"#)2kS2)#)%\$0\$/%"4k  
R, ,7S0\$/%"0(k@)0(\$-k0%Kk+0.)\$W&L/?/#/"%4k>< )2/,0%&07I(/, &@)0(\$-k>##" ,/O\$/%"k>%70(k 5 ))\$/%\*4k  
10#-/%\*\$%"4kL ' Hk

FAH )9: :9;<-k!( '(4k 5 )(-/"24k 5 H4k 6 "(KI)2\*4k 5 H4k!)23<0%4k]H`Hk^899E4k f "?"<I)2\_Hk[%K/?/K70(k0%Kk  
"2\*0%/10\$/%"0(k, "%#)n7)% , )#k".k , "<S)\$/%\*k= "23k0%Kk.0</(W&K)<0%K#k/%&\$- )k6 >zT]k , " - "2\$Hk  
O"#)2kS2)#)%\$0\$/%"4kR , ,7S0\$/%"0(k@)0(\$-k0%Kk+0.)\$W&L/?/#/"%4k>< )2/,0%&07I(/, &@)0(\$-k  
>##" ,/O\$/%"k>%70(k 5 ))\$/%\*4kO-/(OK)(S-/04kO>Hk&

&

) I 4 5 2 )#%& 2 " = %3#J ! / &

&

:H )9: :9;<-k!( '(4k>- "%)%4kTH } H4k+\$)(#"4kTH4k b )W%"(K#4k 5 Hk^898;4k+)S\$)<I)2\_Hk 1 "23k0#k0k#" ,/0(k

&

:H )9: :9;<-&!('(&^898;4& f " ?) < I)2\_H&+\$O\$)&OI"2\$/ "%& IO%#&O#&O&="23S(0, )&-)O(\$-&-0102K&."2&R ! C  
6 e f #P&`/%K/%\*#&.2" < &O&<7(\$/C#&O\$)&#&7KW& 620%K&2"7%K#&4&L)S02\$< )%\$&" .&RI#&)\$2/, #&O%K&6W% ) , ("\*W4& 1 0#-/%\*\$"%&@ "#S/\$O(&' )%\$)24& 1 0#-/%\*\$"%&4&L ' H&

&

8H !7, -I/%K)24& 5 H4&)9: :9;<-&!('(&^898;4&+)S\$) < I)2\_H&+\$O\$)&OI"2\$/ "%& IO%#&O#&O&="23S(0, )&-)O(\$-&-&  
-0102K&."2&R ! C 6 e f #H& 620%K&2"7%K#&4&L)S02\$< )%\$&" .&RI#&)\$2/, #&O%K&6W% ) , ("\*W4&X%/?)2#/\$W&" .&  
R3(0- " <0&@)O(\$-&+, /)%, )#&' )%\$)24&R3(0- " <0&' /\$W4&R d H&

&

FH )9: :9;<-&!('(&^898;4&+)S\$) < I)2\_H&+\$O\$)&OI"2\$/ "%& IO%#&O#&O&="23S(0, )&-)O(\$-&-0102K&."2&R ! C  
6 e f #P&`/%K/%\*#&.2" < &O&<7(\$/C#&O\$)&#&7KW& 1 0#-/%\*\$"%&X%/?)2#/\$W&/%&+&SH& ] "7/#4&L)S02\$< )%\$&" .&  
1 " <)%4&6 )%K)24&O%K&+)U70(/\$W&+\$7K/)#4&b )S2"K7, \$/?)&o7#\$/ , )& 1 "23/%\*&62"7S&+)2/)#4&+&SH& ] "7/#4&  
5 R H&

&

;H )9: :9;<-&!('(&^898;4&o0%702W\_H&+\$O\$)&OI"2\$/ "%& IO%#&O#&O&="23S(0, )&-)O(\$-&-0102K&."2&R ! C 6 e f #P&  
`/%K/%\*#&.2" < &O&<7(\$/C#&O\$)&#&7KW& ! "#\$"%&X%/?)2#/\$W&+ , - ""(&" .&O7I(/, &@)O(\$-4&L)S02\$< )%\$&" .&  
TS/K) < / ("\*W&#) < /%O2&#)2/)#4& ! "#\$"%&4& 5 > H&

&

DH )9: :9;<-&!([H&^898F& f " ?) < I)2\_H&' (/%/ , 0(4&S2" .)##/"%O(4&O%K&S)2#"%O(&/ <S0, \$#&" .&\$-) &B#: : ?&  
K) , /#/"%&"&R ! C 6 e f #&/%&OI"2\$/ "%C

::H

88H ! )23 < 0%4& ] H`H4& ) 9: :9; < ! ( ' (k^89:84k+)S\$) < I)2\_Hk b)\$/2) < )%\$&0%Kk#" ,/0(k2)(O\$/"%#- /S#k/%&\$- )&  
6 > zT ]& , " - "2\$Hk 5 0 , > 2\$-72k` "7%K0\$/"%& f )\$ = "23k" %&0%& > \* /% \* & + " , / )\$Wk < ) )\$ /% \* 4k 1 0# - /% \* \$ " % 4k  
L ' Hk

&  
8FH ) 9: :9; < ! ( ' Hk^89:94kR , \$ " I)2\_Hk \ 0(/K0\$/"%& " .&0k#/%\*( )C/\$) < k < )0#72)k" .k = "23C2)(O\$)KkS - W# / , 0(k  
.O\$/\*7)HkT% ?/2" % < )%\$0(k0%K&R , , 7S0\$/"%0(k 5 )K / , /% )k+ ) < /% 02k+ )2/ )#4kL )S02\$ < )%\$k" .&  
T% ?/2" % < )%\$0(k@)0(\$-4k@02?02Kk+ , - ""(k" .k07I(/ , k@)0(\$-4k ! "#\$ " % 4k 5 > Hk&

&  
&

2 + , ! "k50 \* ' #1% + #23 )&

899BC899E b)#)02, ->##/#\$0%\$4 1 "234`0</(W40%K@)0(\$- f)\$="234@02?02K&NH@Hk ' -0%&  
+, - ""(k".k07I(/,k@)0(\$-4k! "#\$"%4k 5 >k

899AC899B +)%/"2k b)#)02, ->%0(W#\$•b)#)02, ->%0(W#\$4k ' (/%,0(k+\$20\$)\*W&O2"\*20<#4&N- )&  
>K?/#"2W&! "02K&' " <S0%W4& 1 0#-/%\*\$"%4&L ' &

899DC899A +)%/"2k b)#)02, ->##",/O\$)•b)#)02, ->##",/O\$)4&N- )&>K?/#"2W&! "02K&' " <S0%W4&  
1 0#-/%\*\$"%4&L ' &



898;CS2)#)%\$& >K?/#"2W&SO%)(&<) <I)24& ' L ' &O2?)%\$O\$/?)&+)2?/,)#&NO#3&`"2,)&

898;CS2)#)%\$& >K?/#"2W&SO%)(&<) <I)24&b)#)02,-&' " <<7%/\$W&"%&\$-)&Tn7/\$W&[<S0,\$#&" .&  
B#: : ?4&>,0K)<W@)0(\$-• ' " <<"%=)0(\$-&`7%K&

898FCS2)#)%\$& b)#)02,-&OK?/#"2W&\*2"7S&<) <I)24& f 0\$/%"0(&' "7%,/(&."2&5 )%\$O(&1 )((I)/%\*•&  
5 )%\$O(&@)0(\$-&`/2#&>/K&

8988CS2)#)%\$& >K?/#"2W&SO%)(&<) <I)24&+," ,/) \$W&."2&N"\$O(&1 "23)2&@)0(\$-&&

89884&898F& >K&- " ,&#&7KW&#),\$/"%&<) <I)24&L/#)0#)4&L/#OI/(/\$W4&O%K&[%a72W&O2?)%\$/"%&O%K&  
' "%\$2"(&+S),/O(&T<S-0#/#&O0%)(4& f 0\$/%"0(&[#&\$/7\$)&."2&R , ,7S0\$/%"0(&+0. )\$W&O%K&  
&)0(\$-&&

898:C898F& L O\$O&#0. )\$W&< "%/\$"2/%\*I"02K&<) <I)24&+NNb&#&7KW&

898:C8988& N), -%/, 0(&US)2&\$&S0%)(/#\$4&+7I#&S0%, )&> I7#)&O%K&5 )%\$O(&@)0(\$-&&+)2?/, )#&  
>K</#/\$20\$/%"&^+> 5 @+>\_&

89:DCS2)#)%\$& ' "C])0K4&620%K&' -0(())%\* )&\$"&T20K/, 0\$)&+," ,/O(&[#"(0\$/%"&4&><)2/, 0%&>, 0K)<W&" .&  
&+," ,/O(&1 "23&O%K&+," ,/O(&1 )(.02)&

89::& e"7%\*&TS/K)</(" \*W&+, -"(02#&^ e T+\_&#,-"(02#-/S&," <S)\$/\$/"%&a7K\*)4&b" I)2&\$  
1 " "K&o" -%#" %&`"7%K0\$/%"&

&

89:8C89:A& 6)2"%\$ ("\*/,0(k+" ,/)\$W&" .&> < )2/,04& ! )-0?/"20(k0%K&+" ,/0(k+ ,/)% ,)#k#) ,\$/"%&  
899EC89:;& > < )2/,0%&07I(/, &@)0(\$-&#>##" ,/0\$/"%4&R , ,7S0\$/"%0(k@)0(\$-&0%K&+0.)\$W&#) ,\$/"%&  
&

**) 1 , 2 2 ' &% 3 / & 0 3 # 7 ! " ) # + I & ) ! " 7 # 1 ! &**

& &  
898;CS2)#)%\$& O2"?"#&c#&>K?/#"2W& ' "7% ,/(&  
8988C898;& N)%72)&0%K&O2" < "\$/"%& ' " < < /\$&))4&+ , - ""(k" .&+" ,/0(k 1 "23&  
898:C8988& ' -0/2&Tn7/\$W4&o7#\$/ , )4&0%K&[% , (7#/"%&[%/\$/0\$/?)4&+ , - ""(k" .&+" ,/0(k 1 "23&  
898:C898;& L " , \$"20(k ' " < < /\$&))4&+ , - ""(k" .&+" ,/0(k 1 "23&  
8989CS2)#)%\$& 5 )0#72) < )%&\$&0%K& 5 )\$2/ , #&+7IC ' " < < /\$&))4& ! "#\$"%& ' "(\*)&+ , - ""(k" .&+" ,/0(k  
1 "23&Tn7/\$W4&o7#\$/ , )4&0%K&[% , (7#/"%&[%/\$/0\$/?)&  
89:EC8988& ' 722/ , 7(7 < k ' " < < /\$&))& . "2kX%/?)2#/\$WC 1 /K)&> , 0K) < / , &O2"\*20 < #&  
89:iC8989& +)02 , -& ' " < < /\$&))4&+ , - ""(k" .&+" ,/0(k 1 "23&!/5- /\$+ ) ( 'QTQT;&  
89:iC8989& +\$))2/%\*& ' " < < /\$&))4& ! "#\$"%& ' "(\*)& ' )%\$)2& . "2k+\$0\$/#\$/ , #&0%K&>K?0% , )K&  
>%0(W#/#&  
89:i& +)02 , -& ' " < < /\$&))4&+ )%/"2&b)#)02 , -&+\$0\$/#\$/ , /0%4& ! "#\$"%& ' "(\*)& &b)#)02 , -&  
>+ )2?/ , )#&  
89:i& +)02 , -& ' " < < /\$&))4&O2"\*20 < &/%& 6 ("IO(k07I(/, &@)0(\$-&0%K&\$-)& ' " < < "%& 6 ""K4&  
! "#\$"%& ' "(\*)&  
89:AC89:i& TU) , 7\$/?)& ! "O2K4&+ , - ""(k" .&+" ,/0(k 1 "234& ! "#\$"%& ' "(\*)&  
89: ;C89:A& >K?/#"2W& ' " < < /\$&))4& ! &NO(3#&> \*%&?/K) " &#)2/)#4& ! "#\$"%& ' "(\*)& &[%#/\$7\$)&""&  
> \*%&  
89:DC89:B& +\$))2/%\*& ' " < < /\$&))4& ! "#\$"%& ' "(\*)& ' )%\$)2& "%&> \*%&0%K& 1 "23&  
89:D& +)02 , -& ' " < < /\$&))4& b . )2)% , )& ]/I202/0%4&+ , - ""(k" .&+" ,/0(k 1 "23&  
89: ;CS2)#)%\$&

$\rightarrow (/\&)( 'E5\&#: )+ 'QTQX'$