

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

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

!"#\$%&'()*+,-./0-1.(-2((-3(4'
#\$%&'()*+,-./0!
12345!()6378!9377)6:3±!
>?)40@!<"#; 'A<#=#!
0B23C@!0:3*+2*2DC07E,0D750:0-6!

!'/" , * .)!!%* & - , "& - \$)

.77375245!>:)F077):!GH640!A\$A7D45J!
5+),6+" 78#9+",#6:-'5+),6+";"<9+,-'= #,,<>"#'
K0L2:5B045!)F!>:)F0773)42C!M)6470C34N!O!M)CC0N0!)F!1*304*0!24-!P02C5?!
#\$%&'()*+,-./0!
12345!()6378!9377)6:3±!

Q373534N!>:)F077)2462:R!A\$A2R!A\$A<J!
5+),6+"78#9+",#6:-'5+),6+";"<9+,-'= #,,<>"#'
K0L2:5B045!)F!>:)F0773)42C!M)6470C34N!O!M)CC0N0!)F!1*304*0!24-!P02C5?!
#\$%&'()*+,-./0!
12345!()6378!9377)6:3±!

.-S64*5>:)F077):GH2462:R!A\$A7D:62:R!A\$A<J!

0<\$6<"<B'./#* <, <G/:'#8'(<>8,+* <"!H>\$&6#<8'I'4>G+"9#G.6N1675!A\$AAJ!
X43/0:735R!)F!9377)6!5!!()637!GM.MV&>!2**:0-3502B45!()6378!9377)6:3!
K3770:5253)4@!V073C304*0!34!^C2*+!9045B67C2C75?!
?55L7@``3:C'6B7C'0-6`-3770:5253)4`""%!
K:!92:R!&-,348!K3770:5253)4!M?23:!]!.-/37):!

;"&H>&6+'(+ "6#B#\$&6+'#8'."<F"&J!9&* >&6#<8'&8H(!)0.7 /TT1 1 Tf 6>3(X4)-1 (3)-2 (M821 (<8')-1F/2 (./#)-.+8')
+-1 (#)-1 (<8')-1 (&8H(!)0.7 /TT1 1 Tf 6>3(X4)-1A(<F)-1 (")-A (")-A 19.)-11(&)-1 (<>&64.033 0 Td (K12.896 0 T
;"&H>&6+'(7C'A86(8!)-2 (K3)(4")-1 9)-1 9) 162.2411s8'&J!9&1 >>BDC -0 (V)1 (D3 >>BDC)-2 (04)-1 (*0!)!7241

(&)*+,-!D8!92:5348!M!GW*5)D0:!A\$A\$J!a4*):L):2534N!5:26B2!,:+!34!76L0:/370450!25!A\$A\$!
Y):5?!M0452C!.77)*3253)4!F):!M)6470C):!&-6*253)4!24-!16L0:/373)48!V022782k*24*0C0-!-60!
5)!MWQd!kk!

M)+0:8!.'8!92:5348!M!8!93CC(&)*+,-!D8!>26C8f!G.L:3C!A\$A\$J!i)B04!24-!5?0!L:2*53*0!)F!70CF
*047):7?3L@!aBLC3*253)47!F):!*6470C):!0-6*253070450!25!.B0:3*24!M)6470C34N!
.77)*3253)4!A\$A\$M)4F0:04*0!)!&[L)8!124!K3008FY482*24*0C0-!-60!5)!MWQd!kk!
(&)*+,-!DG.L:3C!A\$!M!D2534N!*)440*53)4!34!2!5?0:2L0653*!:0C253070450!-6:34N!D:02+)65!
70773)4!25!A4462C!mM9PM!|^0R)4-n!Q3:562C!M)4F0:04*08!M?3*2N)8!aCC34)37

8-&"1+,%/#"**(-#%+)

(&)*+,-!D24-li?3508!&!V06N675!A\$A\$U:26B2!24-!X:D24!b)65!M)>:070450:8250,2R!1*304*0!
. *2-0BR8!12345!()637897)6!B

9 2:5348!M8)*+,-!D8!24-li?3508!&!V10D:62:R!A\$AAJ!90452C!P02C5?!16BB35!M)4300!24-!
>:070450:8!U:6B24!15250!X43/0:735R8!j3:+7/3CC08!9377)6:3

92:5348!M(8)*+,-!DG92:*?!A\$A\$J!T)750:34N!OFF3*2*R@!U:26B2!,:+!34!76L0:/370450!24-!
d:30F!24-!U:26B2!9343)4F0:04*08!X43/0:735R!)F!9377)6:38!12345!()63789

(&)*+,-!DGT0D:62:R!A\$A\$J!U3B0!B242N0B045!>:070450!25!>)4*0!X43/0:735R)637897)63!

.38!b'88)*+,-!D1*)558!1'8!&N0C?)70C78!Y!G10L50BD0:!A\$="J!U?0!756-045!L0:7L0*53*0!)4!)4C340!
)6:70!-073N4!>240C375!25!5?0!T)*67!)4!U02*?34N!24-!U0*?4)C)NR!M)4F0:04*08!X43/0:735R!)F!
9377)6:38!12345!()63789)6:3!

M)+0:8!.'K'8!92:5348!M8)*+,-!D8!>26C8f!GH640!A\$="J!^C2*+!,)B04!24-!5?0!L:2*53*0!)F!70CF
*047):7?3L!^:02+)65!70773)4!L:070450-!25!5?0!M:))0-!V))B!M)4F0:04*08!12345!()63789

(&)*+,-!DG92R!A\$="J!U3B0!B242N0B045!>:070450!25!>)4*0!X48!2735R)637897)6!B

9#4(* /6+:) /";(#.+<#."./=#*%+)

(&)*+,-!D-G10L50BD0:!A\$="J!^C2*+!,)B048!-0L:0773)48!24-!763*3-0@!a5!7!53B0!5)!?02C!a4/350-!>240C375!
12345!()637897)6!B

i3CC32B78!M8C7)48!j!8!d):-048!(8)*+,-!DG.6N675!A\$"J!(05!7!52C+@!16DB3550-8!72/0-!D65!72-!
a4/350-!>240C3758!12345!()63789

(&)*+,-!DGH640!A\$"J!i:35504!*)BB643*253)48!L?)40!053g605508!/0:D2C!*)BB643*253)48)4_
)BB643*253)4!a4/350-!>:070450!F):!d3:C7!a4*8!9637728!B

92-37)48!U!j!(&)*+,-!DGH2462:R!U!3C!A\$"J!U?0!B2+0)/0!:L:)*07!75?0!B2+0)/0!?)B0!a4/350-!
M)6470C):8!12345!()63789)6!B

(&)*+,-!DGH2462:R!A\$"J!^C2*+!N3:C!7023)67!*)4/0:7253)47!a4/350-!90-325):`M)6470C):8!
12345!()637897)6!B

P6DD2:-8!Q'8!()L0o8!.!8!()L0o8!Q'8!i3CC32B78!(8! '15 -13.22 0022 013 9 *+,-'56 14.527 56 384 2Tc 10.2 P6

5+),6+"78#f Q 50 0 0 1 B0NTj -0.003 4 Td [>3Td [>-4476.9 (')]TJ -0.8.46Tc 12.6224&# -06.378 -1.4 Td [1<>#(())

1L:34N!A\$A\$!G1R4*?:)4)678!)4C340J!
U<>8H&6#<8,'<B'(*#8#\$&*'+86&*'+@+&*6/'(<>8,+*#8F'N(24!'0'b[]K'
;>+,6'1+\$6>"+"
0+G&"6J+86'<B!'H>\$&6#<8&*4\$#+8\$+, 'I.'"<B+,,#<8&*'"<F"&J,'c'(<+*+F+'<B!'H>\$&6#<8'
78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V#,-'=#,,<>"#'
V07L)473D3C353074@5:6*5-!*)6:70!7RCC2D67!24-!70C0*50-!*)6:70!76LLC0B0452C!:.02-34N!B250:32C7!
C0/0C!756-0457!

\$Z`A\$A\$G.7R4*?:)4)678!)4C340
(<>8,+*#8F3B"#&8'3J+"#&8'(*#+86,'N(24!'0'ba[]K'
;"&H>&6+'46>H+86'V8,6">\$6<"
0+G&"6J+86'<B!'H>\$&6#<8&*4\$#+8\$+, 'I.'"<B+,,#<8&*'"<F"&J,'c'(<+*+F+'<B!'H>\$&6#<8'
78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353074@5:6*5-!*)6:70!7RCC2D67!24-!70C0*50-!*)6:70!76LLC0B0452C!:.02-34N!B250:32C7!
M):0250-N:2-34N!:6D:3*7!24-!0/2C6256-045!L2L0:7!24-!0FC0*5312*3C35250277!-37*6773)47
0[L0:304532C!2*53/353078!24-!0C3/0:0-340256-07340!F):B25'!

T2CC!A\$A\$!G1R4*?:)4)678!)4C340J!
(*#8#\$&*'+86&*'+@+&*6/'(<>8,+*#8F'N(24!'0'b[a]K'
;>+,6'1+\$6>"+"
0+G&"6J+86'<B!'H>\$&6#<8&*4\$#+8\$+, 'I.'"<B+,,#<8&*'"<F"&J,'c'(<+*+F+'<B!'H>\$&6#<8'
78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353074@5:6*5-!*)6:70!3475:6*5!)!46370!-0523C7!)4!
L0:253)42C3o34N!2!L:3/250!*)6470C34N!L:2*53*0!5)!B2750:I7!C0/0C!756-0457!

\$;`A\$A\$!G1R4*?:)4)678!)4J!
46D'1<>#,'(>*6>"&*(<JG+6+8\$+'V8,6#6\$6&X(\$)*+\$,*!#-#+'*!"/0&-&\$1&*\$'+*2'"3+'*4"1(&#(24'
!0'ba_]K'
;>+,6'1+\$6>"+"
0+G&"6J+86'<B!'H>\$&6#<8&*4\$#+8\$+, 'I.'"<B+,,#<8&*'"<F"&J,'c'(<+*+F+'<B!'H>\$&6#<8'
78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353074@5:6*5-!*)6:70!3475:6*5!)!46370!-0523C7!)4!
F):!B2750:I7!C0/0C!*)6470C34N!756-0457!
kk*24*0C0-!-60!5)!MWQakkk!

1L:34N!A\$A\$!G1R4*?:)4)678!)4J!
V86"<H>\$6#<8'6<'4<\$#<*<F:'N(24!'0'b]Q]K'
;>+,6'1+\$6>"+"
(<+*+F+'<B'3'6,'!4\$#+8\$+'
@&"#,'46<?+'46&6+'78#9+",#6:-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353074@5:6*5-!*)6:70!3475:6*5!)!46370!-0523C7!)4!
F):!B2750:I7!C0/0C!*)6470C34N!756-0457!5)!V0C253)42C!M6C56:2C!U?0):R!
kk*24*0C0-!-60!5)!MWQakkk!

1L:34N!A\$A\$!G1R4*?:)4)678!)4C340J!
E/+<"#+'<B'(<>8,+*#8F'N(24!'0'b]Q]K'
;>+,6'1+\$6>"+"
0+G&"6J+86'<B!'H>\$&6#<8&*4\$#+8\$+, 'I.'"<B+,,#<8&*'"<F"&J,'c'(<+*+F+'<B!'H>\$&6#<8'
78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353074@5:6*5-!*)6:70!3475:6*5!)!46370!-0523C7!)4!
F):!B2750:I7!C0/0C!*)6470C34N!756-0457!5)!V0C253)42C!M6C56:2C!U?0):R!

T2CC!A\$"=R47?:)4)678!)4C340J!
(*#8#\$&*'+86&*!@+&*6/'(<>8,+*#8F'U#+*H'!AG+"#+8\$+'N(24!'0'b[a]K'
0+G&"6J+86'<B'!H>\$&6#<8&*!4\$#+8\$+',!'."<B+,,#<8&*!."<F"&J,'c'(<**+F+'<B'!H>\$&6#<8'
78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353070450-!)4C340!3450:/30,!,35?!5?0!*6:70!3475:6*5:!)4!07704532C!-0523C7!)4!
)L0:253)42C3o34N!2!L:3/250!*6470C34N!L:2*53*0!5)!B2750:!7!C0/0C!756-0457!

\$;`A\$"=!G1R4*?:)4)678!80:7)4J!
46D'1<>#,'(>*6>)"&*!(<JG+6+8\$+'n88005#6.217 Td [(U(,)2 Td [(U((4)1 (*)1 (?)1 (:)1 ())-1 (,)64 EMC /P <</M

!#%+"\$\$*%&()\$"#5*.)

H640!A\$A<!

3HR@<\$>"8&*T+9#+?+"

g<>"8&*<B'@>J&8'4+"9#\$+,4\$/*&"/#G'&8H'V86+"G"<B+,,#<8&*(<*1&@&4#48"

V07L)473D3C353070@B2467*:3L53BLC050!24!0/2C6253)4!B2B-!L:)/3-0!,:35504!F00-D2*+!5)!

265?):G7B)!;B2467*:3L5!3BL:)/0B045'!

Y)/0BD0:!A\$AA!

;"&86'T+9#+?+"

46D'1<>#,'(<>86:'(/#*H"+8M,'4+"9#\$+'U>8H-'4V'1<>#,-'=#,,<>"#'

V07L)473D3C353070/30,0-!N:245!L:)L)72C7!76DB3550-!F):!5?0!MWV&!F64-34N!75C2452<D!

:0*)BB04-253)47!F):!F64-34N!-375:3D653)4!

H6CR!A\$AA!

3GG*#\$&6#<8'T+9#+?+"

E"&>J&'V8,6#6>6+'4<#\$&*g>,6#\$+'4\$/*&"/#G'(<JJ#66++-'2<"6/&JG6<8-'=&,,&\$/>,+66,'

V07L)473D3C353070(507!?)C2:7?3L!2LLC3*253)4B2-0!:0*)BB04-253)47!F):!F342C3757!5)!:0*03/0!2!

L:)_D)4)15:26B2!5?0:2LR!*0:53F3*253)4!L:)N:2B!

Y)/0BD0:!A\$A"!

;+>,6'.&8+*#,'6'

78#9+",#6:'<B'=#,,<>G46D'1<>#,-'0+G&"6J+86'<B'!H>\$&6#<8'4\$#+8\$+,#<8B+."<F"&J,84V'

1<>#,-'=#,,<>"#'

V07L)473D3C353070@!34F):B253)4!5)!B2750:I7!C0/0C!*)6470C34N!756-0457!5?):6N?!L240C!-37*6773)4!

F)*670-!)4!752:534N!2!L:3/250!B0452C!/?02C5?!L:2*53*0!

Y)/0BD0:!A\$A"!

."+,+86+"

78#9+",#6:'<B'=#,,<>G46D'1<>#,-'0+G&"6J+86'<B'!H>\$&6#<8'4\$#+8\$+,#<8B+."<F"&J,84V'

1<>#,-'=#,,<>"#'

V07L)473D3C353070(5250-!0-6*253)4!7077B)402*?0:!*24-3-2507!5)!76LL):5!756-0457!1,35?!

0B)53)42C!*?2CC04N07!34!5?0!*C2707B)4!5253)4!U35C0@!M2CB34N!5?0!75):B@!i):+34N!,35?!

-R7:0N6C250-!756-0457

W*5)D0:!A\$A"!

0<\$6<"&*46>H+86'T+G"+,+86&6#9+'

=&,6+"M,'(<>8,+*#8F'46>H+86'3HJ#,,#<8,-'78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V'1<>#,-'=#,,<>"#'

V07L)473D3C353070@!2LLC3*253)4!B250:32C7!24-!B2-0!:0*)BB04-253)47!5)!3450:/30,!B2750:I7!C0/0C!

756-0457!F):!2-B3773)4!5)!5?0!*)6470C34N!L:)N:2B!

H6CR!A\$A"!

(<FG"+,+86+"

=#H6<?8'(<JJ>8#6:'4+"9#\$+,-'4V'1<>#,-'=#,,<>"#'

V07L)473D3C353070(5250-!0-6*253)4!7077B)4!5?0:7!,35?!*?3C-:04!64-0N0!Z)!)277375!,35?!

D2*+5)7*?)C!L:0L2:253)4!>:07045253)4!U35C0@!M2CB34N!F):!D2*+!5)!7*?)C

H640!A\$A"!

(43(';"&86'5"#6#8F'E+&J'=+J)+"

78#9+",#6:'<B'=#,,<>G46D'1<>#,-'4V'1<>#,-'=#,,<>"#'

V07L)473D3C35070D):250-!,35?!2!502B!)F!N:245!,:350:7!5)!3-0453FR!F64-34N!)LL):56435307!24-!*:0250!
N:245!L:)L)72C572576LL):50-!5?0<150:7!5)!762.24 -0.7272 L00000!7"LH640!A0d (\$0d (A0d (!7')Tj 6.163 0 Td (

W*5)D0:!A\$"=!
."+,+86+"N5<"%,</<G'E#6*+M,'6&*%'J+86&*'/+&*6/K'
=#H6<?8'(<JJ>8#6:'4+"9#\$+,-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353070450-!L:)N:2B!L2:53*3L2457!,35?!B0452C!?!02C5?!F64-2B0452C7!24-!5?0!3BL2*5!5)!
^a>WM!*)BB6435307!

10L50BD0:!A\$"=!
."+,+86+"N5<"%,</<G'E#6*+X'46>H+86',>\$+X'E#J+'J&8&F+J+86K'
. <8\$+'@+&*6/4\$#+8\$+,'78#9+",#6:-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353070450-!53B0!B242N0B045!7+3CC7!24-!75:250N307!5)!^a>WM!756-0457!

.6N675!A\$"=!
."+,+86+"N5<"%,</<G'E#6*+X'46>H+86',>\$+X'E#J+'J&8&F+J+86K'
. <8\$+'@+&*6/4\$#+8\$+,'78#9+",#6:-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353070450-!53B0!B242N0B045!7+3CC7!24-!75:250N307!5)!^a>WM!756-0457!
78#9+",#6:'<B'=#,,<>G#46D'1<>#,-'E+&\$/#8F'3,,#6&86'3\$&H+J:-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353070450-!34F):B253)4!)4!-3FF0:045!27L0*57!)F!2*2-0B3*!:0702:*?8!34*C6-34N!34)/C/0B045!
34!:0702:*?502B7!24-!):N243o34N!:0702:*?!)7)6:*07!

.L:3C!A\$"=!
."+,+86+"N5<"%,</<G'E#6*+X'46>H+86',>\$+X'E#J+'J&8&F+J+86K'
. <8\$+'@+&*6/4\$#+8\$+,'78#9+",#6:-'4V'1<>#,-'=#,,<>"#'
V07L)473D3C353070450-!34F):B253)4!)4!-3FF0:045!27L0*57!)F!2*2-0B3*!:0702:*?8!34*C6-34N!34)/C/0B045!
34!:0702:*?502B7!24-!):N243o34N!:0702:*?!)7)6:*07!

92:*?!A\$"=!
(<8B+"+8\$+'.'<G<,&*T+9#+?+"
E

Y5(3'Y<>8F'5<J+8M,'1+&H+",<#G'(<8B+"+8\$+-'4V'1<>#,<#>"#
V07L)473D3C35450:@*53/0!,:+7)L!5?25!L:/3-0-!73N?!7*?)C!F0B2C0!756-0457!,32?!)70CR!
75:250N307!

&%&6%0&\$"(*&4)!#%+"\$\$*%&'("3!"#*&.)

"A`A\$"Z!|\$`A\$"!
=&8&F+"-".#"3>6/<"#k&6#<8'T+F>*6<"'(<JG*#&8\$+'
!AG"+,,'4\$"#G64V'<>#,-=#,,<>"#'
V07L)473D3C35450:Q!5!-23CR!*)BLC324*0!F64*53)47!:0C250-15)!L:3):!265?):3o253)4!L0:F):B24*0!
N62:2450078!90-3*23-!24-!L:3/2*R!34*3-0457!GPa>077!3BL:/0B045!24-!L:)S0*5!B242N0B045
:05:30/2C!)F!-252!F):!40,!*C3045!3BLC0B045253)47!

;\$`A\$"#!!|"A`A\$"Z!
|>&*#6:'!+"B<"J&8\$+'4G+\$#&*#,'6'
!AG"+,,'4\$"#G64V'<>#,-=#,,<>"#'
V07L)473D3C35450:Q!5?0!2**6:2*R!)F!5?0!-0L2:5B045!L:-6*53)4!5)!3450:42C!|!0[50:42C!*675)B0:7p!
:0702:*?0-!377607!*)4*0:434N!-0L2:5B045!L:-6*53)4!2CB/0:2DC07p!277077B045!653C3o34N!&1a!1R750B7!
5)!0476:0!5?25!5?0!*):07L)4-04*0!705!6L!37!*)47375045!,35?!M)BB643*253)4!T6CF3CCB0457!L)C3*307!24-
L:)*0-6:07!

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

.B0:3*24!M)6470C34N!.77)*3253)4!6!B0BD0:8A\$"<L:07045J!
.77)*3253)4!F):!.77077B045!24-!V0702:*?!34!M)6470C34N!B0BD0:8A\$"=L:07045J!
.77)*3253)4!F):!M)6470C):!&-6*253)4!24-!16L0:/373)4!G.M&1J8!B0BD0:8A\$"=L:07045J!
.77)*3253)4!F):!96C53*6C56:2C!M)6470C34N!24-!K0/0C)LB045B0BD0:8A\$"=L:07045J!
M?3!13NB2!a)5273!M?2L50:|GMB0BD0:8A\$"=L:07045J!

2%&%#)\$'&/'7'#/)\$

.,2:-00! |!GA\$AAJ!WC-!K)B343)4!X43/0:735R!GWKXJ!&[*350!5?0!K:02B!1*?)C2:7!>:)N:2B!
FB045!G_9MKJ |GMB0BD0:8A\$"=!
.,2:-00! |!GA\$J!1)65?0:4!V0N3)42C!&-6*253)4!G2V&^J!K)5):2C!1*?)C2:7!>:)N:2B!
.,2:-00! |!GA\$J!X43/0:735R!)F!9377)653!)637K)5):2C!X4-0::0L:070450-!934):35R!V0*:635B045!
T0CC),7?3L!

X43/0:735R!)F!9377)612345!()6378!M)CC0N0!)F!&-6*253)4!K3770:5253)4!d:245!GA\$A"8!Y)/0BD0:J!s\ZZ!
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.M&1!V0702:*?!d:245!GA\$A"8!H6688!sZ5F64-0-!

X43/0:735R!)F!9377)612345!()6378!M)CC0N0!)F!&-6*253)4!U:2/0C!&[L0470!.,2:-!GA\$="8!Y)/0BD0:J!
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