

9 - -2/ :& ; 9 < = 4 , , .5 () \$ > ! / > \$ 5 , .0 & \$ / \$ /) 12 - \$ 50 & / ? = 2 ; 4 . %) @ & 3 ' \$ / : 4 ' 0 . / :) 12 ' 2 & A & / ? = 4 - - \$ 50
B & / ' % 4 : & / ? ' \$ / > & : 2 / 0 & . %) 34 - - \$ 50 C . / :) 123 \$ 45 ' 23) . 0 0 D 2 E F G H) + . , - 43)

! " # \$ % & ' ()

9 " # \$ % & ' () = 0.02 , 2 / 0

V & 5 . A P . 6 . . 50 " 95 & A (< , 6 " 7 (6) 5 (/ (0 - , (& 0 " - 07 " A - 5 - 66 / . 0 , " & 0 " , A . " < - 6 (6 " & ? " 5 -) . R ") & ' & 5 R " 5 . ' (H (& O R ") 5 . . 7 R " 0 - , (& 0 - " " & 5 (H (O R " . , A O () (, * R ") - 6 , . R " 6 . W R " 95 . H O - 0) * R " 6 . W 4 - " " & 5 (. 0 , - , (& O R " H . 07 . 5 " (7 . 0 , (, * R " H . 07 . 5 " . W 95 . 66 (& O R " 9 - 5 . 0 , - " 6 , - , 46 R " / - 5 (, - " 6 , - , 46 R " - H . R " 7 (6 - < (' , * R ") (, X . 06 A (9 " 6 , - , 46 R " O . , . 5 - 0 " 6 , - , 46 R " H . 0 . , () " (O ? & 5 / - , (& O R " 5 . 95 & 74) , (O . " A . - ' , A " 7 .) (6 (& 0 " / - K (O H R " A . (H A , R " P . (H A , R " & 5 " - 0 * " & , A . 5 ") ' - 66 (?) - , (& 0 " 95 & , .) , . 7 " < * " " - P " Y 5 . ? . 55 . 7 " , & " - 6 " Z 95 & , .) , . 7 " 6 , - , 46 . 6 " & 5 " 95 & , .) , . 7 ") A - 5 -) , . 5 (6 , () 6 [\ " (O " , A . " . 74) - , (& 0 - " 95 & H 5 - / 6 " & 5 " -) , (O (, 6 " V & 5 , A P . 6 . . 50 " & 9 . 5 - , . 6 R " (O) ' 47 (O H " < 4 , " 0 & , " (/ (, . 7 " , & " / - , . . 56 " & ?

@&5".0.5*5.9&5,R"VTc` 8 J"P(''5.0(.P",A.")5)4 / 6,-0).6"&?",A."5.9&5,.7")&074),",&"7.,.5 / (0."
,A."?&'&P(OHd"

e A.,A.5",A."T0(0.56(*A-6_45(67()),(&0"&0.5",A."9-5,(.6"(00&'0.7b"
e A()A"T0(0.56(*9&'()*(6"-99')-<'."&,"A."9-5,(.6"-07",A.")&074),"<.(OH"5.9&5,.7b"-07"
UA."-),(&06"P(,A(O",A."T0(0.56(*J6")&0,5&'0.) .66-5*",&." / (0-.,.R"95.0.0,R"-07"-775.66"
,A."5.9&5,.7")&074),\$"YV&,.d"DO")(5)4 / 6,-0).6"PA.5."VTc` 8 J"? (076"-0(&'-,(&0"&'9&'()*R"
,A."VTc` 8 J"5.?.56",A." / -,.,.5",&,"A."-995&95(-,."<&7*f&?()?)."?"&5"6-0),(&0(OH"-6"7.6)5(<.7"
(O"+.),(&0"DDY@\\

+9.)(?())&074),")&0.5.7"<*",A."U(,'.D^"J.H4'-,(&06"&0"+.W4-"E-5-66 / .0,"(6"H&0.50.7"<*",A."
T0(0.56(*J6"DO,.5(/ "%&'()*"&0"U(,'.D^"+.W4-"E-5-66 / .0,"-07"P('"<."-775.66.7"-))&57(OH",&,"A."
95&).66.6"6,-.7",A.5.(O\$"#'"&,"A.5"?&5 / 6"&?"6.Wc<-6.7"7(6)5(/ (0-,(&0"-5."H&0.50.7"<*",A(6"%&'()*R"
(O)'47(OH"6.W4-"A-5-66 / .0,R"-6"7.?(O.7"(O",A(6"%&'()*",A-, "7&.6"0&,"5(6.",&,"A."."O."?"U(,'.D^"
+.W4-"E-5-66 / .0,"-6"7.?(O.7"(O",A."DO,.5(/ "%&'()*"&0"U(,'.D^"+.W4-"E-5-66 / .0,\$"

8&074),",A-, "(6"(O(-'"*5-(6.7",A5&4HA-"?&5 / -'"& / 9'-(O,"407.5",A."DO,.5(/ "%&'()*"&0"U(,'.D^"
+.W4-"E-5-66 / .0," / -*"- '6&<."-775.66.7"407.5",A(6"%&'()*R"(O",A."T0(0.56(*J6"7(6)5.,(&0R"PA.0d"
Y(\",A.")&074),"-,(664.R"&5"6& / .9-5,"&?"(R" / -*")&06,(,4,. "-O(&'-,(&0"&'",A(6"%&'()*"(55.69.), (O."&?"
PA.,A.5"(,")&06,(,4,.6"U(,'.D^"+.W4-"E-5-66 / .0,"407.5",A."DO,.5(/ "%&'()*"&0"U(,'.D^"+.W4-"

M" 9''233&N�()

VTc` 8J"(6")& / / (, . 7", & / -K(OH"&45"6.50() .6"-) .66(<' . ,&"-' / . / <.56"&?", A."V&5,AP .6, .50"
)& / / 40(,*\$UA. " ` ??() .(6")&HO(X-0,"&?", A."9A*6()-"-) .66(<(',*&?"&45"69-).R",A.")4',45-"
)& / 9.,.0)*"&?"&45"6,-??R"-07",A. " / .,A&7"-07",&0."&?",A."6.50() .6"P."95&0(7.\$"#) .66(<(',*"
(0)'47.6"<4,"(6"0&,"(/ (.7"

<.A-0(&5"(6(O,(/ (7-, (OHR"A&6, ('.R"&5"&?? .06(O."7&.6"0&, " / -K.", A-, "<.A-0(&5"
95&A(<(.7"A-5-66 / .0,"407.5",A(6"%&'()*"\$UA."<.A-0(&5" / 46,")5.-,."-"
A&6,('."00(5&0 / .0,"-07f&5"64<6,-0,(-'"*(O,.5?.5."P(A"-)).66",&"-"
T0(O.56(*"95&H5- / "&5"-), (O, *"25& / "-0"&<.), (O."9.569.), (O.\$"

>W- / 9Tm / TT200. / \$

H(O.)&06.0,"74.",&"- "9A*6(- ")&07(,(&0"(0)'47.R"<4,"-5."0&,"'(/ (.7",&R"
)&064 / 9,(&0"&?"754H6"&5"- ')&A&""YO&'40,-5('*&5"(00&'40,-5('*\ "&5"<.(OH"(O"- "
6,-,."&?"40)&06)(&460.66R"6' . 9R"&5"&,A.5"6,-,.(O"PA()A",A. "9.56&0"(6"40-P-5."
,A-,"6.W4- "-), (O,*(6"&))455(OH

-,(&06["A-, "5.0. - "&0.]6".W9.),-,(&06"-07"-H5.. / .0,"&".OH-H."(O"
69.)(?)"6.W4-"-), (O,*\$UA(6" / .-06",A-, "6(' .0).R"9-66(O,*R"64< / (66(&OR"&5"
,A."-)K"&?"O.5<-"&5"9A*6(- "'5.6(6,-0). "Y(O)'47(OH",A."-)K"&?"-"ZO&["\
6A&4'7"0&,"a"(O"-07"&?",A. / 6.'O.6"a"<."407.56,&&7"-6")&06.0,\$"8&06.0,"
)-00&,"<."(O?.55.7"<*" -O"(O7(O(74-']6" / -00.5"&?"75.66R",A."H(O(OH"&5"
-)) .9,-0). "&?"H(? ,6R",A." .W,.06(&O"&5"-)) .9,-0). "&?"-O"(OO(-, (&O,"&"H&,"&"-"
95(O-, . "5&& / "&5"&)-, (&OR"&5"H&(OH"&O"-7-, . "\$

. #/0"+123d" 8&06.0, " / 46,"<."?5.. '*H(O.0"-07")-00&,"<."A."5.64', "&?"
(O,(/ (7-, (&O"Y. W,&5, (&OR" / .0-)(OH"<. A-O(&5R"<4''*(OH\R")&.5)(&O"Y6.0.5. "&5"
9.56(6,.0, "95.6645.)-46(OH"? .-5"&?"6(HO(?) -0,")&06.F4.0).6"?5& / ",A."
&,A.5"9-5,*"(?"&O."7&.6"O&,".OH-H."(O"6.W4-"-), (O,*\$R"?&5). "YO(&' .0).R"
9A*6(- "'5.6,5-(O,R"&5",A."95.6.0). "&?"-"P .-9&O\R",A5.-,6"Y(O7()-, (&06"&?"
(O,.0,"&"A-5 / R" PA.,A.5"7(5.), "&5"(O7(5.), \R"&5"?5-47"Y / (65.95.6.0,-, (&O"&5"

(O\$ D/(+%*C+.W4-''(O,.5)&456.<.,P..0"9.56&06"PA&"-5."5.'-.7",&.-)A"&,A.5"
P,(A(O",A."7.H5..6"PA.5.(O / -55(-H."(6"95&A(<(.7"<*"-P\$"

"" ≡2;4.%)O; -!\$!0.0!\$ /<)U-K(OH"6.W4-''-70-O,-H."&?"-O&,A.5"9.56&0"&5"O(&'-(,OH"
,A."6.W4-''95(O-) *"&?"-O&,A.5"PA.O")&06.O,"(6"O&,"95.6.O,\$"

UA(6"(O)'47.6R"<4,"(6"O&,"(/ (.7",&R",A."?&'&'P(OH"-),(&06"Y(O)'47(OH"PA.O"
,A.*"-5."7&0."O(-.'.),5&0(O) / .-06R" / .,A&76"&5"7.O().6\d"

+ .W4-''O&* .45(6 / "&5"9.5 / (, (OH"&,A.56",&"P(O.66R"'(6..0",&R"&5"
&<6.50." ,A."6.W4-''&5"(O,(/ -. .-), (O, *"&?"-O&,A.5"9.56&0" P,(A&4,"A-,"
9.56&0]6")&06.O,b
D07.).O,"&5"' .P7".W9&645."&5"(074)(OH"&,A.56",&".W9&6." ,A. / 6.'O.6"
PA.O")&06.O,"(6"O&,"95.6.O,\$^b
J.)&57(OH"Y,A5&4HA"O(7.&"&5"-47(&\ "-O*"9.56&0".OH-H.7"(O"6.W4-''&5"
(O,(/ -. .-), (O, *(O"-95(O-,. "69-)." P,(A&4,"A-,"9.56&0]6")&06.O,b
; (6,5(<4,(OH"6.W4-''(O?&5 / -,(&OR"(/ -H.6R"&5"5.).&57(OH6"-<&4,"-O&,A.5"
9.56&0" P,(A&4,"A-,"9.56&0]6")&06.O,b
J.)54(,(OHR"A-5<&5(OHR",5-069&5,(OHR"95&O(7(OHR"&5"&<,-(O(OH"-O&,A.5"
9.56&0"?&5",A."9459&6."&?"6.W4-''".W9'&(-,(&Ob
D074)(OH"(O)-9-)(,-,(&O"(O"-O&,A.5"9.56&0"?&5",A."9459&6."&?"
.OH-H(OH"(O"6.W4-''&5")&074),"P,(A"6& / .&O."PA&"'-)K6")-9-)(,*,&
)&06.O,R"5.H-57'.66"&?"PA.,A.5"95&A(<(.7"6.W4-''&5")&074),"-),4-'*"
&))456\$

:" M.0&/?VM\$, 230k')W!\$!2 / '2<); -, (OH"O(&' .O)."(6"-O*"O(&' .O)."Y(O)'47(OH"<4,"
O&,"(/ (.7",&". / &,(&O-'R"9A*6(-'R"6.W4-'R"-07"? (O-O)(-''-<46."&5",A5.-,"&?"
-<46.\ "<.,P..0",P&"9.&9"."PA&"-5."&5"A-O."<..O"(O"-6&)(-'"5.'-,(&06A(9"&?"-"
5& / -O,)"&5"(O,(/ -. ."O-,45.\$"UA." W(6,.O)."&?"64)A"-5.'-,(&06A(9" P("7.9.07"
&O",A."".OH,A"-07",*9."&?" ,A."5.'-,(&06A(9"-07",A."?5.F4.O)*"&?"(O,.5-),(&06"
<.,P..0",A."9.56&06"(OO&'O.7\$"

7(5.), .7"-, "-0&, A.5"9.56&0⁶R" PA., A.5"7&0. "7(5.), '*R"(07(5.), '*R", A5&4HA"
&, A.56R"O(-"7.0(). 6R"&5"O(-"-0*"&, A.5" / ., A&76"&5" / . -06"Y69.) (?) - '*"
(O)'47(OH". ' .), 5&0() / . -06". \$H\$R") * < .56, - 'K(OH\R"(O)'47(OH"<4,"O&, "(/ (. 7", &d"

@&'&P(OH"- "9.56&0b"

2.(OH"&5"5. / -(O(OH"(O)"&6."95&W(/ (*, &" -"9.56&0b"

>0, .5(OH"&5"5. / -(O(OH"&O"&5"0. -5"- "9.56&0]6"95&9.5, *R"5.6(7.0). R"&5"
9'-). "&?" . / 9'&* / .0,b"

S &O(, &5(OHR"&<6.50(OHR"&5")&074), (OH"6450. (''-0). "&?" -"9.56&0b"

UA5. -, .0(OH"Y7(5.), '*"&5"(07(5.), '*\ "- "9.56&0b"

T00.) .66-5*5.?.5.0) .6",&"9-5,6" &?" ,A. "<&7*b"
+. W4- "(004.07&.6R"H.6,45.6R"&5"A4 / &5b"&5"
+. W4- "H5-??,(R"9(),45.6R"&5"9&6, .56\$"

7" 120. %&. 0&\$ /)

V&5,AP .6, .50"6,5(), '*95&A(<,6"5. , -'(-, (&0"-H-(06,"-0*" / . / <.5"&?"(,6")& / / 40(,*"?&5"
5.9&5,(OH"-0"(O)(7.0,"&?"7(6)5(/ (O-, (&0"&5"A-5-66 / .0,"&5"?&5"9-5,()9-, (OHR"(O"-0*" / -00.5R"
(O"-O"(00.6,(H-, (&0"&5"A. -5(OH"5. '-, .7", &"-5.9&5, "&?"7(6)5(/ (O-, (&0R"A-5-66 / .0,"&5"6. W4- "
/ (6)&074), \$"UA. "T0(O.56(,*")&06(7.56"64)A"-), (&06", &"<. "95&, ., .7"-), (O, (.6"(O"PA(A)"- "'
/ . / <.56"&?" ,A. "V&5,AP .6, .50")& / / 40(,*" / -*"95. . '*". OH-H.\$"

S . / <.56"&?" ,A. ")& / / 40(,*"-5. "95&A(<(.7"?5& / ".OH-H(OH"(O"-), (&06R"7(5.), '*"&5", A5&4HA"
&,A.56R"PA(A)"-5. "-(/ .7", &"7. ., .5"-5. -6&0-<'."9-5, "*"&5"-P(O.66"?5& / "5.9&5,(OH"
7(6)5(/ (O-, (&0R"A-5-66 / .0,"&5"6. W4- "' / (6)&074), "&5"9-5,()9-, (OH"(O"-O"(00.6,(H-, (&0"&5"
A. -5(OH"&5"7&0. "(O"5. ,5(<4, (&0"?&5"64)A"-), (O, (.6R"#7. , -'(.7"7.?(O, (&0"&?"5. , -'(-, (&0"-07"
. W- / 9'.6"&?"5. , -'(-, &5"*)&074), "-5. "95&0(7.7"(O", A. "T0(O.56(,*16%&') *"&0"V&0c
J. , -'(-, (&0" J.9&5,6"&?"5. , -'(-, (&0"5. '-, .7", &"A(6"9&') *")P(''<. "(00.6,(H-, .7"-07"5.6&'0.7"
94564-0, ", &" ,A. "95&) .66.6". ,"?&5,A"(O", A(6"9&') *")\$"

UA. "V&5,AP .6, .50")& / / 40(,*"(6"6,5&OH"*".0)&45-H.7", &"5.9&5, "-0*"9&, .0, (-"(O)(7.0,"&?"
5. , -'(-, (&0"407.5, A(6"9&') *") , &"VTc` 8 J R"PA&"6A-'"'-66.66", A. / -., .5"-07", -K. "-995&95(-, .
-), (&06", &"-775.66"64)A")&074), \$"

X" !, -%2, 2/0.0&\$ /)

6" 12-\$50&/?)

." 12-\$50&/?)Y-0&\$ / 3)

UA. "T0(O.56(,*".0)&45-H.6"5.9&5,(OH"&?"7(6)5(/ (O-, (&0R"A-5-66 / .0,"-07"
6. W4- "' / (6)&074), \$" S . / <.56"&?" ,A. "T0(O.56(,*")& / / 40(,*"PA&"<. '(O. ", A. "*"A-O. "
W9.5(0).7R"P(O.66.7"&5"&, A.5P(6.<.)& / . "-P-5. "&?"7(6)5(/ (O-, (&0R"
A-5-66 / .0,"-07"6. W4- "' / (6)&074), "A-O. ", A. "5(HA, ", &")A&&6. "PA. ,A.5"&5"0&,"&"
5.9&5," ,A. "(O)(7.0,"&," ,A. "T0(O.56(,*"&5"-P".0?&5) . / .0,R"-07"A-O. ", A. "5(HA, ", &")
)A&&6. "PA. ,A.5", &" .OH-H. "P(A", A. "T0(O.56(,*"&0) . "A. "T0(O.56(,*"5.) .(O.6"-
5.9&5,\$"

(\$ J.9&5,(OH"DO)(7.0,6", &" ,A. "T0(O.56(,*"

#0*" (07(O(74- "' / -*"5.9&5, "-' .H.7"&5"6469.), .7"7(6)5(/ (O-, (&0R"A-5-66 / .0,"
&5"6. W4- "' / (6)&074), "&"VTc` 8 J \$" J.9&5,6", &"VTc` 8 J" / -*"<. " / -7. "(O"
9.56&0R"<*" . / -("R"<*"5.H4'-5" / -("R"<*"9A&0.R"&5". '.),5&0(-'"*-6". W9'-(O.7"
<. ' &P\$"

! / : &A& : 4. %3& , - . '02: N() : &3' 5& , & / .0&\$ / \$) D.5.33 , 2/0)\$5)32; 4. h)
, &3' \$ / : 4'0) , . () '\$ / 0. '0) EFGY + 1)0\$)52'2&A2)34 - - \$50\$)523\$45'23\$) . / :)
& / >\$5 , .0&\$ /)2A2 /)& >0D2(: \$) / \$0)U&3D)0\$) , \$A2) >\$5U.5 :)U&0D)0D2)

+\$, -%.&/0)123\$%40&\$/)#5\$'233):23'5&N2:)&/)=2'0&\$/)!!!)N2%\$U"%'.-6."6.."
6.),(&O"DDY#\YZ%-5,()9-,(&O"(O"%5&).66["?&5" / &5."(O?&5 / -,(&O\$"U&"69.-K",&
6& / .&0.)&O?(7.0,(-'"*P(A&4," / -K(OH"-5.9&5,"&,"A."T0(O.56(*R"9' .-6."6.."

&9,(&06"P('"<."6.0,"(0"5.69&06.",&"5.9&5,6"?('.7".'.),5&0()-''*\$"

Y0D25)F / &A253&0() 12-\$50&/?)Y - 0&\$ / 3)

O0D&'3#\$&/0)

> / 9'&* . . 6&?" ,A. "T0(O.56(,*%&'() ."-5. "T0(O.56(*. / 9'&* . . 6"-07",A.5. ?&5. "
-5. "&<'(H-, . 7",&"95& / 9, '*5. 9&5, "(O)(7.0,6"&'6. W4-'" / (6)&074), "&?' PA()A"
,A. *"<.) & / ."- P-5. "745(OH",A. "6)&9. " &?" ,A. (5"P&5K"-6". W9'-(O.7"<. ' &P\$"
> / 9'&* . . 6&?" ,A. "T0(O.56(,*%&'() . "P('' / -K. "5. 9&5,6",&"VTc ` 8 J"5.H-57' .66"
&?' PA. ,A.5",A. "(07(O(74-' PA&" . W9.5(.0) .7",A. "6. W4-'" / (6)&074),")A&&6.6",&"
94564. ")5(/ (O-'")A-5H.6\$"

E\$50DU23025 /)F /&A253&0()#\$%&'2)M2- .50 , 2/0)

>0-06,&0"8 - / 946d"
!1L!" ; -0(6"+,5. . ,R">0-06,&0"
"%A&O.d" YI=Q\`=g!c:=BN"Y1="A&456\"

8A()-H&"8 - / 946d"
1!!">-6, "+49.5(&5"+,5. . ,R" 8A()-H&"
"%A&O.d" Y: !1\`BL:c:=BN"Y1="A&456\"
e .<6(, .d"[A.,96dffPPP\\$0&5,AP .6, .50\\$.74f49f](#)"

OA. /30\$ /)#\$%&'2)M2- .50 , 2/0)

>0-06,&0"8 - / 946d" !=B=">' / P&&7"#0.04. R">0-06,&0"
"%A&O.d" g! !"&5"YI=Q\`INNcBLLL"Y1="A&456\"
e .<6(, .d"A.,96dffPPP\$)(, *&?. O-06,&0\$&5Hf9&'() ."

)

+D&' .? \$)#\$%&'2)M2- .50 , 2/0)J)6^0D)M&305&'0)B' \$A253)+D&' .? \$)' . , -43C)

8A()-H&"8 - / 946d" !NL"V&5,A" j -55-<. . "#O. \$R" 8A()-H&"
"%A&O.d" g! !"&5"Y: !1\`Q==c=LLL"Y1="A&456\"
e .<6(, .d"[A.,96dffPPP\\$\)A\(\)-H&9&'\(\) . \\$&5Hf-<&4.f9&'\(\) .c7\(6,5\(\),6f! I.Ac7\(6,5\(\),c](#)
[0. -5c0&5,Af](#)"

N" 12-\$50&/?)YN%&'2)M2- .50 , 2/0)J)6^0D)M&305&'0)B' \$A253)+D&' .? \$)' . , -43C)

)//(8"" , -25%+3(- 9 :/#3--5(;%''*/06%''&(5+06- ''+(- 9 :/#3--5<(1''6(&21601+(-
5+06- ''+5(\$%+(-I*=%''&(#2(50: -2, %5#23(10+=#2%+3>(12-(2-?0%2-6(+#:2#9 :+3(
2- :#2+(6%5*2%9 %''I+##''>(&=121559 - ''+>(#2(5-@01/(9%5*#''60*+(#A(\$=*%=(+(-3(
B- *#9 -(I\$12-(%''(+(-5*#:- (#A(+=-%2(\$#2C(A#2(+(- (8"" , -25%+3(+(D8E7FG(
0''/-55(+(-3(12-(1(F#''A%6- ''+I/(H9 :/#3--I(D#+- '(J=%5(6#-5('#+(2-?0%2-(I(
:-25#''(-@:-2%-'*%''&(&=129 (+#(2- :#2(+(-(%''*%6- ''+I(@-'45. ,&"?4'?(('' ,A(6"
5.9&5,(OH"&<'(H-, (&O"P(''<."5.?.55.7",&,"A. " -995&95(-. " &??() ."?&5")&55.),(O. "
) ,(&O\$UA. "T0(O.56(*. .O)&45-H.6"- ""(07(O(74-'6"a(O)'47(OH"6,47.0,6"0&,"
5.?.5.0).7"-<&O. "a,&"5.9&5,"7(6)5(/ (O-, (&OR"A-5-66 / .0,R"-07"6. W4-'"
/ (6)&074), \$"

UA. "5. 9&5,(OH"5.F4(5. / .0,6"&5" . / 9'&* . . 6"-5. . W9'-(O.7"(O"7. ,-(("O",A. "
[%&'\(\) *"&O" J .9&5,\(OH"<"T0\(O.56\(,*"> / 9'&* . . 6"&?" ; \(6\)'&645.6" J .'-, .7",&"](#)
[; \(6\)5\(/ \(O-, \(&O"-07"E-5-66 / .0,\\$"](#)

(((\$ DO)(7.0,6"(OO&'O(OH" / (O&56"

"

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!N"

5.69&06(<(',*\$" e A.,A.5"-0"(0,.5(/"5. / &0-""(6"(!,.7R"- / .07.7R"&5"6,-*.7"P('"A-0." 0&".??.),"&0"?07(OH6"-6"7.,.5 / (0.7"<*" -0"(00.6,(H-,(&0\$""

I" 9 , /230(>\$5)#.50&23). / :)R &0/23323)

V&5,AP .6,.50".0)&45-H.6"5.9&5,(OH"&?"7(6)5(/ (0-,(&OR"A-5-66 / .0,R"-07"6.W4- "" / (6)&074),"-07"9-5,()9-, (OH"(0"5.6&'4,(&0"95&).66.6"-07"6. .K6,&"5. / &0."-0*" <-55(.56",&" / -K(OH"-5.9&5,"&5"9-5,()9-, (OH"(0"-95&).66\$UA. "TO(0.56(*" 5.)&HO(X.6",A-,"-0"(07(O(74-"PA&"A-6"<. .0")&064 / (OH"-')&A&"Y(O)'47(OH" 407.5-H.")&064 / 9,(&0"&5"46(OH"754H6"-,"A. ,(/ ."&?"A."(O)(7.0," / -*"<." A.6(-0,"&" / -K."-5.9&5,"<.)-46."&?"9&,.0,(-'*)&06.F4.0).6"?&5",A-,")&074),\$U&" .0)&45-H."5.9&5,(OHR"-0"(07(O(74-"PA&" / -K.6"-H&&7"?-(,A"5.9&5,"&?" 7(6)5(/ (0-,(&OR"A-5-66 / .0,R"&5"6.W4-"" / (6)&074),",A-,"P-6"7(5.),.7"-,"A. / "&5" -0&,A.5"9.56&0"&5"9-5,()9-, .6"(0"-0"(00.6,(H-,(&0"-6"-P(,0.66"&5"9-5,*P('"0&," <."64<.),"&"7(6)(9'(0-5*" -),(&0"<*" ,A. "TO(0.56(*"?&5"-)&074),"&5"9&'()*"

G(&'-,(&06"&?"7(5.), (O.6"5.'-.7",&"6499&5,(O." / .-645.6"&5"(O,.5(/ "5.6,5),(&06" / -*"'.-7",&"-0"(00.6,(H-,(&0"-07"7(6)(9'(O-5*"-),(&0R"PA)A) / -*(O)'47.R"<4,"(6" 0&,"(/ (.7",&R"-0*"&?"A."6-0),(&06"-07")&55.), (O."-),(&06""(6,.7"(O",A."95.O(&46" 6.),(&0R"(O)'47(OH".W94'6(&0"&5"7(6 / (66-""?5& / ",A."TO(O.56(*b"&5",.5 / (O-,(&0"&?" . / 9'&* / .O,R"(O)'47(OH"5.O&)-,(&0"&?",.045.\$"

*" **W&\$%.0&\$ / 3)\$>0D2)#\$%&' ()\$ /)E\$ / G 120. %&.0&\$ /)**

D07(O(74-'6"PA&"-5."?&407",&"A-O.".OH-H.7"(O"5.,- '(-,(&0"-5."64<_.), "&" 7(6)(9'(O-5*"-),(&0",A-, " / -*(O)'47.R"<4,"(6"0&,"(/ (.7",&R"-0*"&?"A."6-0),(&06" -07")&55.), (O."-),(&06""(6,.7"-<&O.R"49",&"-07"(O)'47(OH".W94'6(&0"&5"7(6 / (66-"" ?5& / ",A."TO(O.56(*b"&5",.5 / (O-,(&0"&?" . / 9'&* / .O,R"(O)'47(OH"5.O&)-,(&0"&?" ,.045.\$"+-0),(&06""&5"5.,- '(-,(&0" / -*"<."-99'(.7"5.H-57'.66"&?"PA.,A.5",A.5."(6"- ?(O7(OH"&O",A."407.5'*(OH"7(6)5(/ (O-,(&0R"A-5-66 / .O,R"&5"6.W4-' / (6)&074),")& / 9'-(O,\$"

!" **12'\$5:T22-&/?)**

+ .W4- " S(6)&074), "J .69&06. " 1 "%5.0.0.(&0"5.6&45). "9-H. ""
T0(0.56(*%&'(). "#004- " +.)45(*" 1 "@(5. "+-?. ,*" J .9&5. "
T0(0.56(*%&'(). "C4-5-0,.. "?&5"+. W4- "#66-4', "G(), (/ 6"

a" Q&30\$5()

UA(6"9&'()*P-6".0-),.7"&0"#4H46," !=R"1L1L"-07"497-, .7"&0"+.9,. / <.5"!R"1L1!"-07"
+.9,. / <.5"!R"1L1R"-07"+.9,. / <.5"!R"1L1:\$" S(7*.-5"497-, .6"-775.66(OH")A-OH.6",&,"A."
8(*"&?"8A()-H&]6".W4- "A-5-66 / .0,"-P6"P.5." / -7."(0"34"*R"1L11\$" S(7*.-5"497-, .6"
-77(OH",A5.. "95&.,),.7")A-5-),.5(6,)6"P.5." / -7."(0"#95("1L1="

%&'()*"T J j d"A.,96dffP P P \$0&5,AP .6.,50\$.74f.F4(*f7&)4 / .0,6f9&'()*c&0c(06,(4,&0-'c.F4(*\$97?)"

!!" +\$, -.&/0)123\$%40&\$/)#5\$'233)

9" !/05\$:4'0&\$/). / :)X2/25.%)#5\$'2:4523)

K'';2#60*+/#''(

UA."95&).745.6"<.'&P"&4,'(0.",A."95&).66",A."T0(0.56(*"&'&'&P6"PA.0'(",5.).(0.6"-5.9&5,"
-'' .H(OH"-O(&'-(,&0"&?"A." . &3\$(5,&/,4\$%(' \$ I \$ /) * \$ & / ? , E ') % % I + / * ? ,) / " , B + @ 7) 3 , F \$ % (& / " 7 (* ,
<*" - / . / <.5"&?"A."V&5,AP .6.,50")& / / 40(*" \$ "@&5",A."9459&6.6"&?"A.(6"%&'()*R"Z<*" -"
/ . / <.5"&?"A."V&5,AP .6.,50")& / / 40(*" [/ . -06")455.0,"6,47.0,6R")455.0,"?-)4',*"Y-6"
7.?(0.7"<*"A."@-)4',*"E-07<&&K\R")455.0,"6,-?" / . / <.56R"-07")455.0,"6,47.0,"&5"
. / 9'&*.. "H5&496\$""

VTc ` 8 J "5.,-(06"7(6)5.,(&0"&0"PA.,A.5",&" .W.,.07",A(6"95&).66",&")455.0,"A(57c9-5,*"
-??'(-,.6"PA&"A-0."-?"&5 / - "Y(0)'47(OH")&0,5-),4-\5.'-,(&06A(9"P",A",A."T0(0.56(*A,
G(6(&56",&")- / 946"PA&"-5."-)46.7"&?"7(6)5(/ (0-,(&OR"A-5-66 / .0,"&5"6.W4- " / (6)&074),"
-5."0&,".0,(.'7",&,"A."95&).66"6.,?"&5,A"(O",A(6"9&'()*\$"

&,A.5P(6.-).9,.7"5.69&06(<(',*"?&5",A."-' .H.7")&074),R"YB\ ",A." .W(6,.0). "&?"-0*" (07.9.07.0,"(0?&5 / -,&0"&5".0(7.0)."5.H-57(OH",A."-' .H.7")&074),R"-07"YN\ "-0*"&,A.5" -0-('-<' ." -07"5. ' .0-0,"(0?&5 / -,&0\$ J(6K"?-),&56"(0)'47.d"

UA."0-,45."-07"6)&9."&?",A."-' .H.7")&074),R'(O)'47(OH"PA.,A.5",A."5.9&5,.7" <.A-0(&5"(00&'O.6",A."46."&?"- "P .-9&0R"9A*6()-"O(&' .0).R")

@-)4', *E-07<&&KR&5'+, -??E-07<&&K\$UA(6"95&0(6(&0"7&.6"0&, "-99"*&, &"-H&&7"?-(,A" 5.9&5', A-, "(6"0&, "64<6, -0, (-, .7"&5"95&0.0"<*"-95.9&07.5-0). "&?"A. ".0(7.0). \$"

42%, I*3(I'6(L=12%'&(#A(K'A#29I+#'')

UA. "T0(O.56(*))&06(7.56"5.9&5,6"-07"(00.6,(H-,(&06",&"<. "95(0-, . / -, .56"?&5", A. "9-5,(.6" (00&'0.7\$"@&5", A-, "5. -6&0R", A. "T0(O.56(*P('"'95&, .), "A. "(7.0,(,*&?"9.56&06"(00&'0.7"(0" 5.9&5,6"&?"-''.H.7"0(&'-,(&06"&?"A(6"%&'(*)",&"A. "<.6,"&?"(,6"-<('(*\$UA. "T0(O.56(*P('"' &0"*6A-5. "9.56&0-'*(7.0,(?<'-. "0?&5 / -, (&0"P(A"9.56&06"P(A"-0.7",&"K0&P"64)A" (0?&5 / -, (&0"(0"&57.5"?&5", A. "T0(O.56(*, &)"(00.6,(H-, . "-07"5.69&07", &"A. "5.9&5, "&5", &" 95&0(7.5.6&45).6"&5"6499&5, "6.50().6\$UA. "(7.0,(.6"&?"P(,0.66.6"-5. ", *9(-'"*6A-5.7" P(A", A. "9-5,(.6R"A&P.0.5R"<-6.7"&0", A. "69.)(?)"?-, 6R"5.F4.6,6R"-07")(5)4 / 6, -0).6"&?"- " 9-5,()4'-5)-6.R"VTc` 8 J"A-6"7(6)5. ,(&0", &"-0&0* / (X. "P(,0.66.6"PA.0"-995&95(-, . \$UA. " T0(O.56(*7&.6"0&, "94<'(6A", A. "0- / .6"0&5"9&6, "(7.0,(?<'-. "0?&5 / -, (&0"-<&4, "9.56&06" (00&'0.7"(0"-5.9&5, "&?"7(6)5(/ (0-, (&0R"A-5-66 / .0,R"&5"6.W4-' / (6)&074), "(0", A. "T0(O.56(* %&'(). "; -(*"85(/ . "j &H"Y2'&, .5"&5". '6. PA.5. "&0'(0.\$"

#"'9-5,()9-0,6"(0"-0"(00.6,(H-, (&0"P('"'<. "0?&5 / .7", A-, "95(0-) *".0A-0).6", A. "(O. .H5(*&?" ,A. "(00.6,(H-, (&0R"95&, .), 6", A. "95(0-) *(O. .5.6,6"&?"A. "9-5,(.6R"-07"95&, .), 6", A. "9-5,()9-0,6" ?5& / 6, -, . / .0,6", A-, " / (HA, "<. "0, .595. ., .7", &"<. "5. -, -'(-, &5*\$UA. "8& / 9'-(0-0, "-07" J.69&07.0, "P('"'<. "-6K.7"-, "A. "<.H(00(OH"&?"A. "(00.6,(H-, (&0", &"K. .9", A. "(0?&5 / -, (&0" 5. '-, .7", &"A. "(00.6,(H-, (&0"-07"5.6&'4, (&0"95(0-, .R", &"A. ".W, .0, ")&06(6.0, "P(A"-99')-<' . " '-P\$ e (,0.66.6"-07"-70(6&56"P('"'<. "-6K.7", &"K. .9"-0*(0?&5 / -, (&0"' .-50.7"(0"-0" (00.6,(H-, (&0" / . ., (OH"95(0-, .R", &"A. ".W, .0, ")&06(6.0, "P(A"-99')-<' . "'-P\$ e A(".A. " T0(O.56(*P('"' / -(0, -(0)"&0?(7.0, -(, *69.))(.7"(O", A(6+.), (&0R", A. "T0(O.56(*P('"'0&, " '(/ (, "A. "-<('(*&?"A. "9-5,(.6", &"7(6)466", A. "-'.H-, (&06"-, "(664. "(0"-9-5,()4'-5)-6. \$" %&-5,(.6"-5. "-70(6.7R"A&P.0.5R", A-, "A. " / -00.5"(0"PA(A)", A. *)& / / 40(-, . "-<&4,R"&5" 7(6)466"-9-5,()4'-5)-6.R" / -*)"&06,(4, . "%5&A(<(.7"8&074), "&5" J ., -'(-, (&0"(0) .5, -(0")5)4 / 6, -0).6"-07"<. "64<_.), ,&"7(6)(9'(0. "94564-0, "&"A. "95&).66.6"69.))(.7"(O", A(6" 9&')*\$"

8.5, -(0" *9.6"&?"9&')*(0(&'-, (&06"-5.)&06(7.5.7")5(/ .6"?&5"PA(A)", A. "T0(O.56(*, / 46, " 7(6)'&6. ")5(/ .6, -, (6,)6"(0"(6"#004-'"+.)45(*J.9&5, "A-, "(6"95&0(7.7", &"A. ") - / 946")& / / 40(*"-07"-0-('-<' . "&"A. "94<')\$UA.6. "7(6)'&645.6"P('"'<. " / -7. "P(A&4, "(0)'47(OH" 9.56&0-'*(7.0,(?* (OH"(0?&5 / -, (&0\$"

F#9 :/I%'+(G-5#/0+#'(J%9-/')-(

UA. "T0(O.56(*6,5(O.6", &"5.6&'0. "-'")& / 9'-(0,6"(0"-95& / 9, "-07", (/ . '* / -00.5\$ "#', A&4HA" ,A. "' .OH,A"&?" . -)A"(00.6,(H-, (&0"P('"'0-5*"<-6.7"&0", A. ")5)4 / 6, -0).6"&?"A. ") -6.R", A. " T0(O.56(*6,5(O.6", &")& / 9' . . . -)A"(00.6,(H-, (&0"P(A(0"0(O. , *YgL\)-' .07-5"7- *6"&?" 6.07(OH", A. "P5(, .0"0&,) . "&?"(00.6,(H-, (&0\$"

#77(, (&0-'*R", A. ", (/ . '(0. "?&5"-) -6. " / -*"<. "-??)., .7"<*"<5. -K6"(O", A. "-) -7. / ()"-'.07-5R" -0-('-<('(*&?"A. "9-5,(.6"-07"P(,0.66.6"Y(O)'47(OH"74. ", &"-''. -0. "&?"<-6.0).R"6)&9. "&?" ,A. "(00.6,(H-, (&0R"0. .7"?&5"(O. .5(/ -), (&06R"-07"&A.5"40?&5.6. .0"&5".W(H.0, ")5)4 / 6, -0).6\$ UA. "9-5,(.6"P('"'<. "9.5(&7()-'*(497-. .7"&0", A. "6, -, 46"&?"A. (5")-6.\$DO")-6.6"PA.5. ", A.5. "(6" -"6(/ 4', -0.&46"-P.0?&5). / .0, "(00.6,(H-, (&0R", A. "T0(O.56(*, / -*"0. .7", &" . / 9&5-5('*" 7. '-*(, (6"(00.6,(H-, (&0"PA('"'-P".0?&5). / .0, "H-, A.56".0(7.0). \$"

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-0*7&)4 / .0,6"-6"9-5,"&?"-0*95&).66"407.5",A(6%&'()*R",A."%-5,* / 46,".W.)4,."- "@> J% #"
P-(0.5"9.5 / (,(OH",A."-70(6&5",&"A-O.-)).66",&"A."%-5,*j6".74)-,(&0"5.)&576"5.'-,.7",&"
,A."95&).66\$""

K" !/k&.%)!/`4k5()

T9&0"5.).(9,"&?"-5.9&5,"&?"7(6)5(/ (0-,(&0R"A-5-66 / .0,"&5"6.W4-"" / (6)&074),R"&5"PA.O"-"
8& / 9'-(0-0,"&.A.5P(6.")A&&6.6",&" / &0."?&5P-57"P(A",A."")& / 9'-(0,"5.6&'4,(&0"95&).66R"
,A."?(56,"6.9"(6"-0"(0,(-"(OF4(5*\$"#0"(0,(-"(OF4(5*(6"-0"-66.66 / .0,"<*"VTc` 8 J"-6",&"
PA.,A.5",A."-''.H-,(&06R"(?"64<6,-0,(-.7R"P&4'7"5(6.",&"A."'.O."&?"-0(&'-,(&0"&?"
T0(O.56(*%&'()*Y(.6\b"-7.,.5 / (0-,(&0"&?"A."69.)(?)"9&'()*Y(.6\("/ 9'()-,.7b"-07"-0"
-66.66 / .0,"&?"-995&95(-.T0(O.56(*5.69&06.\$"VTc` 8 J"P('')&074),A."(0,(-"(OF4(5*"
P(A(O"6.O.O"YQ"<46(O.66"7-*6"-?,.5"5.).(9,"&?"A."5.9&5,"&5" / .,.(OH"P(A",A."
8& / 9'-(0-0,Y6\R"PA)A.O.5"(6"-,.5\$UA(6",(/ .?5- / . / -*"<."W,.07.7"?&5"H&&7")-46.\$"

#6"-5.64',"&?"A."(0,(-"(OF4(5*R"VTc` 8 J" / -*"7.,.5 / (0.",A-,",A.")&074),5.9&5,.7"?-'6"
407.5",A."6)&9."&?"A."T0(O.56(*j6"DO,.5(/ "%&'()*&0"U('."D^"+.W4-""E-5-66 / .0,"-07"
95&).7",&"-99"*",A."95&).745.6"&?"A-, "9&'()*\$"

D?"VTc` 8 J"7.,.5 / (0.6",A-,",A.")&074),5.9&5,.7")-00&,"?-'"407.5",A."6)&9."&?"A."DO,.5(/ "
%&'()*&0"U('."D^"+.W4-""E-5-66 / .0,"<4,")&4'7"?-'P(A(O",A."6)&9."&?"A(6"%&'()*R",A."
9&66(<'."O.W,"6.96"(O)'47.d"

8'&6.",A."8-6.d"VTc` 8 J" / -*)"&6."-)-6."PA.O"(064?)(.0,("0?&5 / -,(&0".W(6,6"
,&" / &0."?&5P-57"&5"PA.O",A."-''.H.7" / (6)&074), k .O.O"(?"64<6,-0,(-.7 k "P&4'7"
0&,"<."-0(&'-,(&0"&?"9&'()*\$"VTc` 8 J" / -*"R"(O"(6"7(6)5.,(&0R"5.&9.O"-)-6."(O",A."
?4,45."(?"-77(,(&0-""O?&5 / -,(&0"<.)& / .6"-0-('-<'\$.
>74)-,(&0-""J .69&06."Y+..6.),(&0"8"<.'&P\
#7 / (0(6,5-,0."J .O(. P"Y+..6.),(&0" ; "<.'&P\
#, .50-,0."J .6&'4,(&0"Y+..6.),(&0">"<.'&P\
&5 / -"J .6&'4,(&0"Y+..6.),(&0"@<.'&P\
"

+ " O:4'.0k\$/.)123-\$/32)

>74)-,(&0-""5.69&06."(00&'O.6" / .-645.6",-K.O"<*"A."T0(O.56(*"(O"5.69&06.",&"-5.9&5,"
&?"7(6)5(/ (0-,(&0R"A-5-66 / .0,"&5"6.W4-"" / (6)&074),"PA.O"?&5 / -""5.6&'4,(&0"(6"O&,"
7.6(5.7"<*"A."9.56&0"PA&" / -*"A-O.".W9.5(O).7",A." / (6)&074),R"PA.O",A.5."(6"O&,"
.0&4HA"(O?&5 / -,(&0",&"95&)..7"P(A"-?"&5 / -""5.6&'4,(&0"95&).66"-H-(06,"-KO&P0"
J .69&07.O,R"-07f&5"PA.5."VTc` 8 J"7.. / 6",-0"-995&95(-,.5.69&06.\$">74)-,(&0-"
JTJET2(")-1(P-1(O)1(&)1(P)1(O)1(")JTJET6]Tm / JTJq(')-1(O)-1(.)-1(6)-1(")-2(/)-1+.24600-10)

U5-(O(OH"?&5"- "H5&49"&5"40(,"
#0"-70(6&5*" . . . 5"

D?"VTc` 8 J"5.?.56"-0".74)-,(&0-""5.69&06.",&"-0&,A.5"TO(O.56(*"&??().R",A."5.69&06(O." TO(O.56(*"&??(). "P('"'95&0(7."-<5(.?"64 / / -5*"&?",A."-),(&06",-K.O\$"

M" 9 : , &/ &305.0&A2)12A&2U)

VTc` 8 J"A-6",A."7(6)5.,(&0"-07"-4,A&5(*",&")&074),"-0"-7 / (O(6,5-, (O."5.O(. P"PA.O" ?&5 / -""5.6&'4,(&0"(6'O&,"7.6(5.7"<*",A."9.56&0"PA&" / -*"A-O.".W9.5(.O).7",A." / (6)&074),R" PA.O",A.5."(6'O&,".0&4HA"(O?&5 / -,(&0",&"95&)"..7"P(A"-?"&5 / -""5.6&'4,(&0"95&)"..66"-H-(O6," -"KO&P"O"J.69&07.O,R"-07f&5"PA.5."VTc` 8 J"7.. / 6(",-0"-995&95(-,."5.69&06.\$"

DO"7..5 / (O(OH"PA.,A.5",&")&074),"-0"-7 / (O(6,5-, (O."5.O(. P"&?"-''.H-,(&06R",A."`??(). "P('"')&06(7.5"- ""KO&P"O"(O?&5 / -,(&0R"(O)'47(OH"Y!\",A."O-,45."-07",A."6.O.5(*"&?",A." -'''.H-,(&06R"Y1\ "PA.,A.5",A."-''.H-,(&06"-5."- / .O-<'."&"5.6&'4,(&0",A5&4HA"&,A.5")A-00.'6R"64)A"-6"A4 / -O"5.6&45).6"(O,.5O.O,(&0b"Y:\",A."A(6,&5*"&?"95(&5)"& / 9'-(O,6" 5.H-57(OH",A."6- / ."(O7(O(74-'6R"7.9-5, / .O,R"-07f&5"-5.-b"Y=\",A."W95.66.7"P(6A.6R"?) KO&P"O"R"&?",A."-??.),.7"(O7(O(74-'b"-07"YB\ "-O*"&,A.5"9.5,(O.O,"(O?&5 / -,(&0\$"" T9&0"(O(-,(&0"&?"-0"-7 / (O(6,5-, (O."5.O(. P"VTc` 8 J"P('"'O&,(?"*,A."A.-7"&?",A." 7.9-5, / .O,f40(f-5.-"-07"&,A.5"5.'.O-0,"TO(O.56(*"9.56&00."Y.\$HSR"A4 / -O"5.6&45).6" 95&?.66(&0-'6"&?",A.")& / / .O). / .O,"-07"6)&9."&?",A."5.O(. P\$"#7 / (O(6,5-, (O."5.O(. P"6" P('"'(O)'47."(O,.5O(. P(OH"P(,O.66.6"-07"5.O(. P(OH"9.5,(O.O,"7&)4 / .O,6"-07"P('"'O&5 / -'"* <.")&0)'47.7"P(A(O"O(O.,*"YgL\)-'.07-5"7-*6\$UA.",(/ .?5- / . / -*<.".W,.07.7"?&5"H&&7")-46.\$"VTc` 8 J"P('"'A.O"95&74)."-"P5(,.0"5.9&5,"&4,'(O(OH",A."?(O7(OH6"&?",A." #7 / (O(6,5-, (O."J.O(. P"-07"-0*"5.)& / / .07.7-),(&0"(, / 6",&,A."W.)4,(O."5.69&06(<'." ?&5",A."7.9-5, / .O,f40(f-5.-\$UA."6- / .".O."?"&?)&0?(7.O,(-'(*"-99')-<'."(O"?&5 / -"" 5.6&'4,(&0"95&)"..66.6"P('"'-99'*,&"-7 / (OA-O."."O,(&0"9,(&0"90D?1(" /)2(-)1(1-1.)16-17240601."

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D0",A.".0.0,"-9-5,*"P(A75-P6"?5& / ",A."-',.50-, (O."5.6&'4,(&0"95&).66R"&5",A."95&).66"(6"
,.5 / (0-,.7"<*"A."?-)'(-,&5R"5.)&576"?5& / ",A."-',.50-, (O."5.6&'4,(&0"95&).66"P("0&,"<."
6A-5.7"P(A",A&6."(00.6,(H-, (OH",A." / -,,.5"<4,"P(""<." / -(0,-(0.7"<*"VTc` 8 J\$""!
""!
#"9-5,(.6"P(""<."-6K.7",&"95&0(7."0&'40,-5*"P5(,.0)&06.0,"&,"A."-',.50-, (O."5.6&'4,(&0"

8 & / 9'(-0). "P('"'95&0(7."P5(,,.0"0&,(.) .",&,"A."9-5,(.6"PA&6."(7.0,(.(.6"-5."K0&P0",A-,"(O)'47.6d"

- V&,(.) . "&?"V&5,AP .6,.50]6")& / 9'-(0,5.6&'4,(&0"95&).66\$"
- +4??)(.0,"7.,-('6"&?"A."-''.H-,(&06"K0&P0"-,"A.",(/ ."6&"A-,,"A."9-5,(.6" / -*"95.9-5."-5.69&06."<. ?&5."-0"(0,(-"(0,.50(. P"P(A,"A."(00.6,(H-,&5Y6\R"(O)'47(OHd"
- o ,A."(7.0,(?('.6"&?"A."9-5,(.6"(00&'0.7"(O",A."(O)(7.0,R"(?"K0&P0b"
- o ,A.")&074),"-''.H.7",&)"&06,(,4,. "-0(&'-,(&0"&?"9&'(*)*b"-07"
- o ,A."7-.,"-07"'&)-,(&0"&?"A."(O)(7.0,Y6\R"(?"K0&P0\$"

UA."P5(,,.0"0&,(.) . "P('"'(O?&5 / ,A."9-5,(.6"&?"A."T0(O.56(*]6"95&A(<,(;&06"&0"5.-'(-,(&0"-07"K0&P(OH"*" / -K(OH"?-'6."6,-, / .0,6"&5"K0&P(OH"*"64< / (,(OH"?-'6."(O?&5 / -,(&0"745(OH",A.")& / 9'-(0,5.6&'4,(&0"95&).66\$"

D?R"(O",A.")&456."&?"-0"(00.6,(H-,(&0R",A."T0(O.56(*"7.) (7.6",&"(00.6,(H-,.-77,(;&0-"'-''.H-,(&06"-<&4,"A."8 & / 9'-(0-0,"&5"J.69&07.0,"A-,-5(6.",A-, "P.5."0&,"(O)'47.7"(O",A."(O,(-'0"0&,(.) .R",A." ` ??() . "&?"8(O("J(HA,6"-07"U(,'.D^"8 & / 9'(-0). "P('"'95&0(7."0&,(.) . "&?"A."-77,(;&0-"'-''.H-,(&06",&,"A."9-5,(.6"PA&6."(7.0,(.(.6"-5."K0&P0"94564-0,"&,"A."5.F4(5. / .0,6"-<&0.\$"

)**-. :+I''*-(#A(G-5:#''5%B%)+3(

%5(&5",&,"A.")&0)'46(&0"&?"-0"(00.6,(H-,(&0R",A." J.69&07.0," / -*".'.),"&,"-K."5.69&06(<('(*"?&5",A."95&A(<(.7")&074),"<*")&0,-),(OH"VTc` 8 J"(O" P5(,(OH\$"@&'&'&P(OH"-O-)) .9,-0). "&?"5.69&06(<('(*R"VTc` 8 J" / -*"6&'()(" -77,(;&0-"'(O?&5 / -,(&0"5.'-, (OH",&,"A." / -,.,.5"VTc` 8 J" P('"'(664."- "<5(.?"&4,) & / .7.,.5 / (0-,(&0",&,"A."9-5,(.6"64 / / -5(X(OH",A."-''.H-,(&06"-07"6,-,(OH",A." J.69&07.0,"A-6-)) .9.,.7"5.69&06(<('(*R"-07" P('"'5.?."5,A."

UA."T0(O.56(*"6"40-<'."&"(7.O,(?"*,"A."J.69&07.O,"-?,.5",-K(OH"5.-6&0-<'."6,.96"
,&"7&"6&b"

UA."J.69&07.O,"(6"0&"&OH.5".05&"'.7"-,R"-??('(-,.7"P(,AR"&5". / 9'&* .7"<*,"A."
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UA."8& / 9'-(0-0,"0&'40,-5('*"P(A75-P6"-0*"&5"-'"&?" ,A."-''.H-,(&06"(O",A."
)& / 9'-(0,"-07"VTc` 8 J"7.,.5 / (O.6",A-,R"P(A&4,"A.")& / 9'-(0-0,)6"P(A75-P0"
-''.H-,(&06R",A.")&074),"A-,5. / -(06"(O",A.")& / 9'-(0,R"(?"-0*R"P&4'7"0&,"
)&06,(4,. "7(6)5(/ (0-,(&0"407.5"A-5-66 / .0,".O.O"(?"95&O.O",54.b"&5"

UA.")&074),"-''.H.7"(O",A.")& / 9'-(0,R".O.O"(?"95&O.OR"P&4'7"0&,")&06,(4,. "
7(6)5(/ (0-,(&0R"A-5-66 / .0,R"&5"6.W4-' / (6)&074),"407.5",A(6"9&'())*" -07"VTc` 8 J"
A-6"407.5,-K.O"5.-6&0-<'."??&5,6",&)"'-5(?"*,"A."-''.H-,(&06"P(,A",A.")& / 9'-(0-0,\$"

D0",A.".O.O,"VTc` 8 J"7.,.5 / (O.6",A-,"A.")& / 9'-(0,"6A&4'7"<."7(6 / (66.7R"VTc` 8 J"P('"
95& / 9,'*(O?&5 / ",A."8& / 9'-(0-0,"&?"7(6 / (66-'"-07",A."<-6(6"?&5",A."7(6 / (66-'"-07R"(?" ,A."
7(6 / (66-'"&))456"-?,.5",A."J.69&07.O,"A-6"<.O"0&,(?.7"&?" ,A."-''.H-,(&06R"VTc` 8 J"P('"
-'6&(O?&5 / ",A."J.69&07.O,"&?" ,A."7(6 / (66-'"-07",A."<-6(6"?&5",A."7(6 / (66-'\$)UA."9-5,(.6"
/ -*" -99.-",A."7(6 / (66-'7.)(6(&0")&06(6,.0,"P(A",A."95&).745.6"6.,"?&5,A"(O"+.),(&0"C\$"

K", -5+!&I+!#"(

VTc` 8 J"(00.6,(H-, .6")& / 9'-(0,6"95&)..7(OH",A5&4HA"?&5 / 400("?)&56")1(5 /) 2(")()1(,1(,692cm,(H)1(" ,A)

,A."%-5,*"&5" e (,0.66"PA&"7.)'(0.7",&"<."5.)&57.7"P('"'<."H(0.0",A."&99&5,40(*,"&"5.0(.P"
,A."(0,.50(.P"6,-, / .0,"&?",A.(5"&P0"(0,.50(.P"-07")&55.),"69.'"(OHfH5- / / -5"-07"?-),4-'"
.55&56"-07"95&0(7.")'-5(?)-,(&0'(?'0..7.7"<*",A."7.-7'(0."6.,"<*",A."D00.6,(H-,&5"D?",A."
%-5,*"&5" e (,0.66"7&.6"0&,"95&0(7."-0*"5.69&06.",&"A."(0,.50(.P"64 / / -5*"P,(A(0",A."
-'"&,,.7",(/ .?5- / .R",A."D00.6,(H-,&5"P('"'&06(7.5",A."(0,.50(.P"64 / / -5*"")45-,.\$"UA."
D00.6,(H-,&5" / -*" -775.66"-0*"64<6,-0,(0.)& / / .0,6"&5")&55.),(&06"64< / (, .7"(0",A."
(00.6,(H-, (0."5.9&5,\$"

S . .,(OH6",A-, "7&"0&,) &06,(,4, . "-0"(0,.50(.P"-5."0&,"-47(&"&5"0(7.&"5.)&57.7"<*",A."
T0(0.56(*r"-07" / -*"0&,"<."5.)&57.7"<*" -0*"9-5,() (9-0,\$"%-5,(.6"-07"P(,0.66.6" / -*", -K."
0& .6"745(OH"(00.6,(H-,(&0" / . .,(OH6\$UA."8 & / 9'-(0-0,"-07" J .69&07.0,"P('"'A-0."-0".F4-'"
&99&5,40(*,"&"95.6.0,"0- / .6"&?"9& .0,(-'"P(,0.66.6"-07",&"95&9&6."F4.6,(&06",A."
(00.6,(H-,&5Y6" / (HA,"-6K",A."&,A.5"9-5,*"&5"P(,0.66.6\$ 8 & / 9'-(0-0,6"-07" J .69&07.0,6"
/ -*" (7.0,(?"9& .0,(-'"?-) ,4-'"P(,0.66.6"<4," / -*"0&,"95.6.0,")A-5-),.5"P(,0.66.6\$UA."
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T0(O.56(*]6")A&6.0)"'&47"6,&5-H."9'-,?&5 / R",&"5.0(. P",A."?(O-""(00.6,(H-, (O."5.9&5,"-07"
-'"-,,-)A.7" / -, .5(-'6R"PA()A"-5."0&,"&A.5P(6."95(O(' .H.7\$UA."0&,(?)-,(&06" P('"(O)'47."
?(07(OH6"5.'-, .7",&"-' .H.7"O(&'-,(&06"&?"9&'(*)"-07",A."5-,(&0-'."?&5"-'"?(07(OH6\$D?",A."
)& / 9'-(O,"95.6.0,6" / &5.",A-O"-6(OH'."-' .H-,(&0"&?" / (6)&074),R"-"(07(OH" P('"<." / -7."
6.9-5-,.'*" -6",&".-)A"-'.H-,(&0\$""

6" 123\$|40(\$ /)\$>' .323)UD252)/(\$A&\$%.0(\$ /)D.3)N22(/)>\$4 / :)

8& / 9'-(0-0,6"-07" J .69&07.0,6" P('"<."0&,(? (.7"&?",A.(5"-99. -'"5(HA,6"-07"-99. -'"
95&).745.6\$"#6"0&,.7"-<&O.R",A."T0(O.56(*.0)&45-H.6",A."9-5,(.6",&" / -(0,-(O"
95(O)-*"&?"-'")& / / 40()-,(&06"5.'-, .7",&"?(07(OH6\$"

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D?" J .69&07.0,"(6"&407",&"<."5.69&06(<'."?&5"&O."&5" / &5."9&'(*)"O(&'-,(&06R",A."
0&,(?)-,(&0"&?"?(07(OH6" P('"(O)'47."(O?&5 / -,(&0"5.H-57(OH",A."6-O),(&0(OH"
95&).66\$DO"7., .5 / (O(OH"6-O),(&06R",A."7.) (6&0" / -K.5"?&5"6-O),(&06"A-6",A."
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%5& / &,(OH"6-?. ,*" -07"95&,.), (OH",A."T0(O.56(*,*)& / / 40(*,b""

+ -0),(&0(OH"(07(O(74-'6"&5"O(&'-, (OH",A(6"%&'(*)"-07"7.,.55(OH",A. / "
?5& / "6(/ ('-5"?4,45."<.A-O(&5b""

>07(OH")&074),b""

U-K(OH"6,.96"5.-6&0-<'*)-')4'-,.7",&"95.0.0,"A."?4,45."5.&))455.0)."&?"
A.")&074),b""

J .6,&5(OH",A."8& / 9'-(0-0,"&,"A.(5"95.c7.95(O-,(&0"6,-,46R",&,"A.".W,.0,"
95-),()-"-07"9&66(<'\$.)"

e ,(A(O"? (O."YB"<46(O.66"7-*6"&?"5-06 / (66(&0"&?",A."@ (O-""D00.6,(H-,(&0" J .9&5,"
PA.5.",A.5."A-6"<..0"-7.,.5 / (O-,(&0"&?"-9&'(*)"O(&'-,(&0R"<&A"9-5,(.6" / -*"
64< / (" -6,-, / .0,"Y0&,"&".W)..7"B"9-H.6\,&,"A."#66&)(-,.G()).%5.6(7.0,"?&5"
)&06(7.5-,(&0"<*",A."(07(O(74-'Y6"5.69&06(<'."?&5"7.,.5 / (O(OH"-0"-995&95(-,."

-))&57-0). "P(A,A. "95&). 745.6"6., "?&5,A"(O",A. "+,47.0,"E-07<&&K\$"UA. "
`??(). "&?"8& / / 40(*"+,-07-576"P('"95&0(7. "P5(,.,0"0&,(. "&?"-0*" 6-0),(&0Y6\("/ 9&6.7",&,"A. "9-5,(.6"?&5"O(&'-,(&06"&?",A(6"9&'()*"
6(/ 4',-0.&46'*"P(A(O"6.0.0"YQ\))-'.07-5"7-*6"&?",A. "6-0),(&0(OH"7.)(6(&0\$" UA. "0&,(. "P('"5.?.5.0). "? (07(OH6" / -7. "<*"VTc` 8 J"-07"P('"(O)'47.",A. "
6-0),(&0Y6\R"-64 / / -5*"&?",A. "5-,(&0-' .R"-07"(O?&5 / -,(&0"-<&4, "A. "-99. -" 95&). 66\$"

**P\$5)30.>>123-\$ / :2/03R"(O",A. ".0.0,"-9&'()*"O(&'-,(&0"(6"?&407R"VTc` 8 J"
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UA."8&/9'-(0-0,"&5"J.69&07.0," / -*" -99. -'" ,A."7(6 / (66- 'R"? (07(OH6"-07f&5R"(?"6-0),(&06"
-5.(/ 9&6.7R",A."7.,.5 / (0-,(&0"&?"6-0),(&06\$"#0"-99. -'"P('"'<."A-07'.7"(0"- / -00.5"
)&06(6,.0,"P(,A"-0*"-99'()-<'." ,.5 / 6"&5"95&).745.6"(0",A."@-)4',*"E-07<&&KR"+,-?"
E-07<&&KR"+,47.0,"E-07<&&KR"&5"-99'()-<'.")&0,5-),,\$" ` ,A.5P(6.R",A.",.5 / 6"-07"
95&).745.6"&4,'(0.7"(0",A.6."H4(7.'(0.6"P('"')&0,5&'\$"

#0"-99. -'" / 46,"<." / -7."P(A(0",.0"Y!L\)-'.07-5"7-*6"&?",A."7-.,."&?",A."P5(,.,.0"
0&,(?)-,(&0"&?",A."?(07(OH6"&5R"(?"6-0),(&06"-5."(/ 9&6.7R",A."P5(,.,.0"0&,(?)-,(&0"&?",A."
6-0),(&0(OH"7.,.5 / (0-,(&0\$"#0"-99. -'" / 46,"<."(0"P5(,(OH"-07"69.)(?"*,A."<-6(6"?&5",A."
-99. -'\$"UA."P5(,.,.0"-99. -'" / 46,"6,-.,."P(,A"69.)(?)(,*d"Y!\",A."(664.6"<.(OH"-99.-'.7b"Y1\\$\$"
,A."<-6.6"?&5",A."-99.-'b"-07"Y:\("?"0.P".0(7.0)."(6"&?? .5.7R",A."-99.-'" / 46,"7.6)5(<."

,A."9-5,(.6\$"

UA."P5(,.0"7.)(6(&0"&0"-0"-99.-'"P('"'<.(664.7"-6".W9.7,(&46"*-6"9&66(<'."R",A&4HA",A." ,(/. ?5- / . " / -*"0-5*"<-6.7"&0",A."6)&9."&?" ,A."-99.-'"&5"40?&5.6. .0")5)4 / 6,-0) .6\$ #"
P5(,.0"7.)(6(&0"5.H-57(OH",A."-99.-'"P('"'<.(664.7",&,"A."9-5,(.6"6 / 4' , -0.&46"*P(A(O"
6.0.0"YQ\)"-' .07-5"7-*6"&?" / -K(OH"-7.)(6(&0"-07",A."&0.5-'"",(/. ?5- / ."?"&5"-0"-99.-'"
H.O.5-'*"6A-'*"0&,".W) . .7":L"<46(O.66"7-*6\$D?",A."-99.''-,."5.O(.P.5"7&.6"0&,"?(07",A-,"
-0*"&?" ,A." ,A5. ."H5&4076"?&5"-99.-'"5."95.6.0,"(O",A.")-6.R",A."&4,)& / .P('"'<."49A.'7\$"
D?",A."5.O(.P.5"?(076",A-,"-0*"&?" ,A."H5&4076"?&5"-99.-'"5."95.6.0,"(O",A.")-6.R",A." * / -*"
- / .07",A."&4,)& / .R" / -*" (664. "-0.P"&4,)& / .R"&5" / -*"5.? .5,A." / -,,.5"<-)K",&,"A."
(00.6,(H-,&5Y6\?"&5"?45,A.5")&06(7.5-,(&0\$ #"(0-"&4,)& / . "&0"-0"-99.-'"(6"0&,"64<.), ,&
?45,A.5"-99.-'"\$UA."-99.-'"5.O(.P.5"P('"'0&,(?"*VTc` 8 J"(O"P5,(OH"&?" ,A.(5"P5(,.0"
7.)(6(&0")&0, . / 9&5-0.&46"*P(A"95&0(7(OH",A."7.)(6(&0",&,"A."9-5,(.6\$"

!!! 123\$45'23)

9" +\$/>:2/0k.%)=4- -\$50\$9 :A\$' .' (\$). / :)+\$4/32%k / (?)123\$45'23)

UA."?&'&'&P(OH"8&0?(7.0,(-'"J .6&45) .6"-5."-0-('-<'."?"&5"(07(O(74-'6",&"7(6)466"(O)(7.0,6"
-07"(664.6"5.'-, .7",&"7(6)5(/ (0-,(&0R"A-5-66 / .0,R"-07f&5"6.W4-" / (6)&074), "&0"-"
)&0?(7.0,(-'"<-6(6\$8&0?(7.0,(-'"J .6&45) .6"-5."0&,"&<(H-, .7",&"7(6)'&6."5.9&5,6"&?"6.W4-"
/ (6)&074), "&"VTc` 8 J"Y407.5"-0*")5)4 / 6,-0) .\&5"-P".0?&5) . / .0,"Y.W) .9,"(O"0.5*"
'(/ (.7"6(4-,(&06R"64)A"-6"PA.0"?-('45.",&"7(6)'&6.",A."(O?&5 / -,(&0"P&4'7"5.64', "(O"
(/ / (O.O,"7-OH.5",&,"A."(07(O(74-"&5",&,"A.56"&5"-6"&,"A.5P(6."5.F4(5.7"<*" "-P\)\$"

8&0?(7.0,(-'"J .6&45) .6"-0"95&0(7."(O?&5 / -,(&0"-<&4,"T0(O.56(,*"-07"&??c)- / 946"
5.6&45) .6R"6499&5,"6.50() .6"-07"&,"A.5"&9,(&06\$ #6"0&, .7"-<&0.R"<.)-46."&?" ,A.")&0?(7.0,(-"
0-,45."&?" ,A.6."5.6&45) .6R"7(6)'&6(OH"(O?&5 / -,(&0",&"&5"6. .K(OH"-70() ."?"&5 / "-"8&0?(7.0,(-"
J .6&45) ."7&.6"0&,")&06,(4, ."-5.9&5,"&5")& / 9'-(O," ,&,"A."T0(O.56(,*"-07"P('"'0&,"5.64', "(O"
-5.69&06."&5"(O,.50.O,(&0"<*" ,A."T0(O.56(,*\$ #9.56&0")&064', (OH"P(A"-8&0?(7.0,(-"
J .6&45) ." / -*" "-, .5"7.) (7.",&" / -K. "-5.9&5," ,&,"A."T0(O.56(,*"-07f&5"-P".0?&5) . / .0,\$"

UA." S .7(-'" J .6&45) .6" (O" +.), (&0" DDDY2\ " -5." -'6&")&0?(7.0,(-'" 5.6&45) .6" -07"-5." 0&,"
&<(H-, .7",&"7(6)'&6."5.9&5,6"&?"6.W4-" / (6)&074), "&"VTc` 8 JY407.5"-0*")5)4 / 6,-0) .\&5"
'-P".0?&5) . / .0,"Y.W) .9,"(O"0.5*" '(/ (.7"6(4-,(&06R"64)A"-6"PA.0"?-('45.",&"7(6)'&6.",A."
(O?&5 / -,(&0"P&4'7"5.64', "(O(/ / (O.O,"7-OH.5",&,"A."(07(O(74-"&5",&,"A.56"&5"-6"&,"A.5P(6."
5.F4(5.7"<*" "-P\)\$"

Y/G+ . , -43F#''A%6-'+'I/123\$45'23)

123\$45'2)

+\$/0.'0)!/>\$5 , .0(, 6- 1(")-2(T0)- 1 ()- 1

O:4'.0k\$/ d) [PPP\\$0&5,AP.6,.50\\$.74f\)-5.\)](#)

9-5,0.56"&?"6450(O&56\$ 8 # J >")-0"<."-0"-70(6&5",A5&4HA",A."T0(O.56(*")& / 9'-(O,"5.6&'4,(&0"95&).66\$"#70&)-,.6")-0"95&0(7. "-69-).",&95&).66R"-6K"F4.6,(&06R"6-?.,*"9'-0R"

Y , N4 : 3-253\$ /) [& / <476 h 0&5,AP.6,.50\\$.74"](#)

	"PPPS"(?.c69-0&5H"	-66(6,-0). "P(A" ` 57.56"&?" %5&,.),(&OR".,)S\R"-07")&406. '(OH"
+2/025 >\$5) +\$/02;04.%) +D./?2)	g1:g"C5&66"%&(0,"J&-7"o:LLR"+K&K(. " YI=Q\ "NQnc===Q"W:L="Y?&5"-99&(0, / .0,6" &5"-")&0?(7.0,(-"-66.66 / .0,\ " PPPS).0,.5?&5)&O,.W,4-')A-OH. \$&5H"	J.?.55-'6"?&5"6450(O&56"&?"6.W4- " -07"7& / .6,()f7-, (OH"O(&' .0) .d" (07(O(74- "'-07"H5&49")&406. '(OH\$") J.?.55-'6"?&5"9.59.,5-.,&56"&?"6.W4- " -07"7& / .6,()f7-, (OH"O(&' .0) .d" (07(O(74- "'-07"H5&49")&406. '(OH"
9 - /.)XD.5)	=:BL"V&5,A"25&-7P-*R"1*+"@'&&5" 8A()-H&R"Dj "NLN! : " YQQ:\": :=c=NN: " PPPS-90-HA-5&5H"	

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+-0"@5-0)(6)&R"8#"g=! !L"
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[A.,9dff6?P-5&&5H""](#)

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B*I)D\$453C)**

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e .<6(, .d" [A.,9dffP P P\\$0&5,A6A&5. \\$&5HF'& \)-,\(&06f&45c](#)
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-6"9&66(<."6&,"A.*")-0"-.,. / 9,"&")&''.),"9&66(<."0(7.0)."Y.\$H\$R"?5& / ",A."
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,A. / "-07f&5"<*" , -K(OH"6)5..0"6A&,"6"&?" ,.W, / .66-H.6R"(06,-0, / .66-H.6R"6&)(-"
0.,P&5K(OH"9-H.6R"&5"&,"A.5".'.),5&0(")& / / 40(-),(&06R"-07"<*"K..9(OH"
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2.)-46."6& / ".0(7.0).R"9-5,()4'-5*"0(7.0)." ,A-," / -*"<."&)-.7"&0",A."
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6.W4-"*" -66-4',.7"-07"P(6A,"&95.6.50."0(7.0)."6A&4'7"H&,"&-"A&69(-'"&5"
 / .7(-)"-?"-)(,'(*" (/ / .7(-,.'*" ,&6..K"- / .7(-)"-".W- / (0-,(&0"-07f&5".0(7.0)."
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E.-',A)-5."-07"@- / ('*" +.50().6R"-07"6A&4'7"0&,"<."<(''.7,"&,"A."9-,(.0,\$"
#0"(07(0(74-"PA&"A-6"< .0"6.W4-"*" -66-4',.7"-07"P(6A.6,"&95.6.50."
.0(7.0)."6A&4'7R"(?"9&66(<."R"0&,"6A&P.5R"<-,A.R"7&4)A.R"6 / &K.R"<546A",.,AR"
. -,R"75(OKR"46." ,A."<-,A5&& / R"&5")A-OH.")'&,"A.6"&5"<.77(OH"<. ?&5."H&(OH,"&,"A."
A&69(-'"&5"6..K(OH" / .7(-)"-"-.,.0,(&0\$)"
D?" ,A."(07(0(74-"PA&"A-6"< .0"6.W4-"*" -66-4',.7"7.) (7.6,"&")A-OH.")'&,"A.6"
&5"<.77(OH"-07"P(6A.6,"&95.6.50."0(7.0).R",A.*"6A&4'7"0&,"P-6A,"A.")'&,"A.6"
P&50"&5"<.77(OH"46.7"745(OH,"A."-66-4',R"-07"6A&4'7"<5(OH",A. / ",&-"A&69(-"R"
 / .7(-)"-?"-)(,'(*" &5",A."9&'(")."(0-"0&0c"9'-6,()Y.\$H\$R"9-9.5)"<-H\$"

%&'()*R")& / / 40(*" / . / <.56"-07",A."T0(O.56(*"-5."W9.),.7",&,-K."-0"-), (O."5&'."(O"
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O-5(.,*"&?"5-(O(OHR"-P-5.O.66R"-07"95.O.O,(&0"95&H5- / 6",&"A.'9"95.O.O,"7(6)5(/ (O-,(&OR"
A-5-66 / .O,R"-07"6.W4-" / (6)&074),"P(A(O",A."V&5,AP.6,.50")& / / 40(*\$UA."T0(O.56(*"
6,5(O.6",&".0645.",A-,"64)A"95&H5- / / (OH"(6"7.O.'&9.7",&"<.")4',45-' '*5.' .O-0,b",5-4 / -"
(O?&5 / .7b"(O)'46(O."&?"7(O.56.")& / / 40,(.6"-07"(7.O,(.6b"646,-(O-<' .b"5.69&06(O.",&"

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IO&7/%+3\$/6?,2%5(8&3&6\$()3,) / ",%8+3*+, '%+ '#\$(+%=&' ; & I +/,) / ", (8\$3' '+/J,

X\$A25/ , 2/0)Q\$3- &0.%3) . / :)+2/0253)U&0D)-D(3&' . %) . / :) , 2/0.%D2.%0D)523\$45' 23).A.&%.N%2)

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E S 8"846,& / .5+.50())."8.0,.5" !NLNL"Y+40cUA456"Q- / c!L9 / b"@5("19 / c!L9 / b"+-,"!L- / cN9 / \\
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.0)&45-H.7",&"(0F4(5."-<&4,"-07"407.56,-07",A."W.,0,"&?")&0?(7.0,(-',*,A.*")-0"95&0(7.",&".A."
6450(O&5"&?"6.W4-"O(&' .0).\$"UA.")&0?(7.0,(-',**"-P6"-07"5.H4'-,(&06" / -*7(?.5"64<6,-0,(-'"*"
&5& / ",A."95&.,),(&0"-P6"(O",A.(5"A& / .)")&40,5*\$"

I" +\$/0.'0)0D2)#\$&' 2)

+450(O&56"-5.".0)&45-H.7",&,-'K",&".A."8A(.?"`9.5-,(&06"`??().5"?&5" / &5."(O?&5 / -,(&0"&0"PA-, "
/ -*"A-99.0"(?)",A.*?"('."-9&'().5.9&5,\$"C.0.5-"*R"&0)."-6.W4-"-66-4',(6"5.9&5,.7",&".A."9&'().R"
9A*6(0)-".0(7.0)."&?"-6,54HH'."(6)"&' .),.7"-07",A.0",A.")-6."(6"5.?.55.7",&".A."95&6.)4,&5R"PA&"
,A.0"7.,.5 / (0.6"(?"-")5(/ .",&&K"9'-).\$"UA."- / &40,"&?"9A*6(0)-".0(7.0)."PA(A)6A&P6"-6,54HH'."
P('"464-'*7.) (7.",A.")-6.\$!>)-D(3&' .%)2A&:2 / '2)k3& / '\$ / '%43&A2\$0D2)' .32)U\$4%:)N2): k3 , k332: \$)
. / :)0D2)345A&A\$5) , k?D0)2&0D25)N2).3T2:)0\$3&? / .)30.02 , 2/0)\$5)N2)b.k%2:\$"

! / .) / 2 , 25?2 / ' (:&.%)ig8I)II_I)jggg)B\$/)' . , -43C)\$5)ggg)B\$>>)' . , -43C)#\$&' 2) 12-\$503). / :)
123-2'0&/?0D2)=45A&A\$5f3)M2' k&\$/3)

UA.5."(6"O&5(HA,"&5"P5&OH"P-*?&5"-6450(O&5",&"95&)..7\$"UA."7.) (6(&0",&"5.9&5,"-0"-66-4',"&".A."
9&'()."(6"-9.56&0-"&0.\$"

m&4"6A&4'7"A.'9"-6,47.0,"&5")&''.-H4." / -K."-9&'().5.9&5,"(?",A.*"P-0,"*&45"A.'9R"<4,"(?",A.*"7&"
O&,"P-0,"&R"*&4"6A&4'7"-6&5.69.),",A-,7.) (6(&0\$%4<())(,"*R")&0).506"&0.5"5.0(,(/ (X-,(&OR"
A(6,&5(0)-"9&&5",5.-, / .0,-,"A."A-076"&?",A."9&'().R"&5"?.-5"&?<.(OH_-' .7"-5.".W- / 9'.6"&?"5.-6&06"
-"6450(O&5" / (HA,"O&,"P-0,"&(OO&'O.",A."9&'().\$"

_ " +\$/0.'0)0D2)Y>>k' 2)\$>)+&A&%) 1&?D03). / :)Z&0%2)! []+\$, -%&. / ' 2)

e A.,A.5"&5"O&,"A."(07(O(74-" / -K.6"-9&'().5.9&5,R",A.*")-0")&0,-),"-07" / -K."-5.9&5,"&".A."
T0(O.56(,*\$)#0"(07(O(74-"A-6",A."5(HA,"&")A&&6."PA.,A.5",&"5.9&5",A."(O)(7.0,"&".A."`??()."&?"
8(O(" J (HA,6"-07"U(,".D^"8& / 9'(-0)."?&5"-77(,(&0-"&9,(&06"-07"6499&5,"-07f&5",&"5.F4.6,"-0"
(OO.6,(H-,(&0\$"UA."T0(O.56(,*"P('"95&.,),",A."(7.0,(,*&?"9.56&06"(OO&'O.7"(O"5.9&5,6"&?"6.W4-"
/ (6)&074),",&,"O")&76,"&?(,6"-& / (',*\$70")&0(*756(,*5(&'5&0"*60-57"9756&0-'.

523&30. / '2\$)&"2")3T&/)\$>0D2)-25-205.0\$5)4 / :25)0D2)>&/ ?25 / .&%3\$)N54&323"!>)0D252)&3) / (\$)2A&:2 / '2)
\$>.)3054??%2\$)0D2/). /)& / ' &:2 / 0) , . (/ \$0)N2)'%.33&>&2:).3)5. -2)4 / :25)H.0.5)% .U). / :)0D2)
345A&A\$5) , . (N2). ' ' 432:)\$>32;)\$403&:2)\$> , .55&. ?2\$)UD&'D)&3)&W2?.')&/)0D2)=0.02)\$>)H.0.5")

D,"(6"/ 9&5,-0,"&"K. .9"(0" / (07",A-,".-)A"64HH.6,(&0" / -*"0&,"-99'*(0".0.5*(0)(7.0,d"

%5.6.50."0(7.0). "&?".'.),5&0(")& / / 40()-,(&06"'(K.",.W," / .66-H.6R"9(),45.6R"-07f&5"6&)(-"
O.,P&5K(OH"9-H.6"<*"6-0(OH",A. / "-07f&5",-K(OH"6)5..0"6A&,6\$