```
"#$$%\'!(%)*$+'),-!)'!'),#.,$/!0%!,+./),)0%.1!2%)'3)%..4$!.%/!5.#/$%0'.#%$$!6$++),0+-
                                                               F(1 343852; (G; 5A34"B(!; HB(G! "#$; (
                                                             F(1 343852; ?G; 5A34"I J0337"0?$*(
                                                                 (K: O4"8*#"(*2(EE*<8(94(/#(*==9572<372(
! "#$%&'(&%)$*+,*"-.'L3783438M"3N38("3N0*+52#(5"($97"5"2372+#(; 56; +56; 238(57("3N0*+52#(43"3*4$; (
/02(2; 3(57234"3$2597(9:(637834B("3NB(*78("3NO*+52#(5"(*($97249A34"5*+(=+*$3?(.9<3(2; 3945"2"(*4603(
2; *2(63783438("3N0*+52#(5"(*("9$5*+($97"240$25978(2; *2(5"(637834M"3N(3::3$2"(43:+3$2"(904($0+2043(
< 943("9(2; *7($97"25202597*+(85::3437$3"0(92; 34"(+99P(29(904(3A9+02597*4#(4992"(*78(/59+96#(*"(
"904$3"(9:(2; 3(<*7\#(A*45*2597"(9/"34A38(57(>9<370"B(<370"B(*78(637834R85A34"3(=39=+30"(=370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*370"B(*37
"3N0*+52#?(C7(2; 5"($904"3B(>3(>5++(3N=+943(2; 3(:9078*2597"(9:(63783438M"3N38("3N0*+52#(*78(
3N^* < 573(; 9 > (2; 3"3(:*$294"(<*75:3"2(57(5<=942*72(*"=3$2"(9:(>9<370")8(<370")8(*78(637834)8))))))
85A34"3(=39=+30"("3N0*+(+5A3")!(K; 3($904"3(>5++(/3657(>52; (*7(9A34A53>(9:(2; 3(<*$94(2; 394325$*+(
="#$; 9+96#(:49<(2; 3"3(=9"52597"?('
! "#$%&'/"$O1,.'1 *2345*+(>5++(/3($9A3438(2; 4906; (*""56738(43*8576"B(A5839(+3$2043"(*78(
=98*"2"B("208372(=43"372*2597"B(*78(97+573(:940<(85"$0""597"?(K; 3(/*+*7$3(/32>337(
< *2345* + "(=9"238(3*5); (>33P(*78(29(*$25A3 + #(=*425$5=*23(57(97 + 573(85"$0""597?(K);5"($904"3(5"(*+"9(
83"56738("9(2; *2(2; 3($97$3=2"(5724980$38(3*4+534(57(2; 3($904"3(>5++(/3(43A5"5238(*"(73>($97$3=2"(
*78(2; 3("$537$3(*43(=43"37238(57("0/"3J0372($+*""3")(C7(2; 5"(>*#B(>3($*7(/05+8(*7(
07834"2*78576(9:(2; 3(\$9 < = +3N(5""03"("0449078576("3N0*+52#(*78(637834M"3N?(
K; 5"($904"3(5"(83"56738(29(43"3</+3(*7(57R=34"97("3<57*4($904"3(57(2; *2(=*425$5=*2597(57(
=43"372*2597"(*78(85"$0""597"(5"(<*78*294#b(>52; (*(>457P+3(T(>3043(89576(52(*"#7$; 49790"+#U(
K; 5"(5"(*7(3N=345<372(*78($; *7$3"(*43("9<3(2; 576"(>5H(69(><math>3H)(*78(92; 34"(><math>5H(792(69("9(><math>3H?(9)))))
! +3*"3(89(#904(/3"2(29(/3(P578(*78(=*25372(*"(>3(:56043(902(; 9>(29(<*P3(*7(97+573("3<57*4(
>94P(29632; 34(#(VD*"234(D66U(=9"2(*(P57873""(LC)(29(W7X(O7834(2; 3(Y"#+*/0"(85"$0""597Z(
2; 43*8[?((
K; 3($904"3(5"(85A5838(57(29(2; 433(<980+3"F(K; 3(:54"2(<980+3(5724980$3"(P3#($97$3=2"B(23*$; 3"(
2; 394325$*+(:9078*2597"B(*78(=49A583"(*7(9A34A53>(9:(63783438M"3N38("3N0*+52#?(K; 3("3$978(
                            1 *2345*+"(63734*238(/#(57"240$294"(9:(2; 5"($904"3(<*#(792(/3(=9"238(29($9<<34$5**($904"3(<*2345**("523"(
```

>52; 902(=34<5""597?(@9>3A348(2; 3#(<*#(/3(0"38(*78(*8*=2388(>52; (*2245/025978(:94(797\$9<<34\$)**,(=04=9"3"?(0:(#90(*43(43*8576(2; 5"(:74(() 042 1 9ET021 - 1 3(*) 2(2) 1 8-8*=22098. 24000. 248. 503 1 (2) 34(*098. 24008 1 (2) 1 (") 1 2520980. 2443 098. 2400*BT-7(*098. 245Tc420042 1 49

1 *2345*+"(63734*238(/#(57"240\$294"(9:(2; 5"(\$904"3(<*#(792(/3(=9"238(29(\$9<<34\$5**(\$904"3(<*2345**("523"(>52; 902(=34<5""597?(@9>3A348(2; 3#(<*#(/3(0"38(*78(*8*=2388(>52; (*2245/025978(:94(797\$9<<34\$5**(=04=9"3"?(0:(#90(*43(43*8576(2; 5"(573(=45728(#90(83"34A3(*7(0"38(378(*38(2)("9<3(4585\$0+90"(:573(=45728((

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! "#$%&' () *+(, -, -(. #+*/0"(
: 1$,*)*+1,*"-'*-;*-&'7*%)#%*"-%' (
```

1 *2345*+"(63734*238(/#(57"240\$294"(9:(2; 5"(\$904"3(<*#(792(/3(=9"238(29(\$9<<34\$5*+(\$904"3(<*2345*+("523"(>52; 902(=34<5""597?(@9>3A34B(2; 3#(<*#(/3(0"38(*78(*8*=238B(>52; (*2245/02597B(:94(797\$9<<34\$5*+(=04=9"3"?(0:(#90(*43(43*8576(2; 5"(573(=4572B(#90(83"34A3(*7(D*"234(D66?(. 378(<3(*(=5\$2043(9:("9<3(4585\$0+90"(:573(=4572)((

(

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g? D7$904*63(92; 34"(29(83A3+9=(*78("; *43(2; 354(583*"?( h? H9(792(84*>(:49<(=34"97*+(3N=34537$3(94(=49A583(*73$892*+(3A5837$3(>; 37(85"$0""576( 29=5$"?(. 208372"(57(2; 3($+*""(; *A3(792($97"37238(29(; 3*4(*/902(#904(=34"97*+(+5:3?(K; 3( 85"$0""597("; 90+8(:9$0"(97($904"3(<*2345*+"B(*78(/3($4525$**+(>; 5+3(*+"9("0==9425A3(*78( 57$+0"5A3?(( ( 589;&),*"-'+1+&$%' (
```

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1 *2345*+"(63734*238(/#(57"240\$294"(9:(2; 5"(\$904"3(< *#(792(/3(=9"238(29(\$9 < 34\$5*+(\$904"3(< *2345*+("523"(>52; 902(=34 < 5""597?(@9 > 3A348(2; 3#(< *#(/3(0"38(*78(*8*=2388(>52; (*2245/025978(:94(797\$9 < 34\$5*+(=04=9"3"?(C:(#90(*43(43*8576(2; 5"(:573(=45728(#90(83"34A3(*7(D*"234(D66?(. 378(< 3(*(=5\$2043(9:("9 < 3(4585\$0+90"(:573(=45728((

1 *2345*+"(63734*238(/#(57"240\$294"(9:(2; 5"(\$904"3(< *#(792(/3(=9"238(29(\$9< < 34\$5*+(\$904"3(< *2345*+("523"(>52; 902(=34<5""597?(@9>3A348(2; 3#(< *#(/3(0"38(*78(*8*=2388(>52; (*2245/025978(:94(797\$9< < 34\$5*+(=04=9"3"?(1:(#90(*43(43*8576(2; 5"(:573(=45728(#90(83"34A3(*7(D*"234(D66?(. 378(< 3(*(=5\$2043(9:("9< 3(4585\$0+90"(:573(=45728((

```
! "#$%&' () *++(, -, -(. #++*/0"(
```

\$\times 43:0\text{O}\text{HB}() Cj HCj L(2; 576"B(\times 78(=9"2576(65:"B(A5839"B(94(92; 34(2; 576"(2; \times 2(>5\text{H}(; 9=3:0\text{HH}() / 456; 237(3A34\text{H9730"(8\times \text{HU}()})) \text{\figgraphi} \text{\figstar} \text{\figs

1 *2345*+"(63734*238(/#(57"240\$294"(9:(2; 5"(\$904"3(< *#(792(/3(=9"238(29(\$9 < 34\$5*+(\$904"3(< *2345*+("523"(>52; 902(=34 < 5""597?(@9 > 3A348(2; 3#(< *#(/3(0"38(*78(*8*=2388(>52; (*2245/025978(:94(797\$9 < 34\$5*+(=04=9"3"?(0:(#90(*43(43*8576(2; 5"(:573(=45728(#90(83"34A3(*7(D*"234(D66?(. 378(< 3(*(=5\$2043(9:("9 < 3(4585\$0+90"(:573(=4572?((

(

```
K9(23"2(#904(57234732("=3388); 22="FMM>>>?"=33823"2?732M?() 94(23$; 79+96#("0==942(4*76576):49<("1.564576):49
"322576(0=(#904(83A5$3B(5""03"(>52; (97X(29(57"2*+576("9:2>*43B($972*$2(CK. (. 0==942(G37243((...)))))))))
; 22="FMM>>>?J0337"0?$*M52"M52"$'(
@343(*43(2>9($4*"; ($904"3"(57(; 9>(29(43$948(*(A5839(*78(0=+9*8(29(W7X(/#(H4?(1 36; *7(j 9445"))
K; 3(:54"2(5"(:94(43$948576(57(K3*<"(*78(<9072576(29(W7XF(
; 22="FMM>3/?<5$49"9:2"243*<?$9<MA5839Mqf8f8$, $R/EEaR%$3:R/f:ER%q:*88q*/-$*(
K; 3("3$978(5"(:94(43$948576(*(A5839M*0859(:94(#904(!9>34=9572(=43"372*2597(*78(3</388576(57(
W7XF(
; 22="FMM>3/?<5$49"9:2"243*<?$9<MA5839Mfa3&, 8%$Rfhq$R%' aqRq%E, R-fq&:%q*q8-f(
<$17*-3'O&,1"7.']+($9<=97372"(9:(2;5"($904"3(>5++(43$35A3(70<345$*+(=34$372*63(<*4P"?((K;3(
:57*+(64*83(#90(43$35A3(:94(2; 3($904"3(>5++(/3(8345A38(/#($97A342576(#904(70<345$*+($904"3(
*A34*63(29(*(+32234(64*83(*$$948576(29(XO3370"(W::5$5*+(L4*83(G97A34"597(. $*+3F('
                                   Q#&&-U%'499*)*1;'<$17&'! ''-A&$%*''-'0)1;&'
```

1 *2345*+"(63734*238(/#(57"240\$294"(9:(2; 5"(\$904"3(<*#(792(/3(=9"238(29(\$9<<34\$5**(\$904"3(<*2345**("523"(>52; 902(=34<5""597?(@9>3A348(2; 3#(<*#(/3(0"38(*78(*8*=2388(>52; (*2245/025978(:94(797\$9<<34\$)**,(=04=9"3"?(0:(#90(*43(43*8576(2; 5"(:573(=45728(#90(83"34A3(*7(D*"234(D66?(. 378(<3(*(=5\$2043(9:("9<3(4585\$0+90"(:573(=4572?((

```
=49=342#(9:(2; 3(57"240$294?(C2(5"(*(83=*42043(:49<(*$*83<5$(57236452#(29(85"245/023B(=0/+5$+#(=9"2B(
"3++(94(92; 34>5"3(85""3<57*23(*7(57"240$2940"($904"3(<*2345*+"(94(29(=49A583(*7(57"240$2940"(
$904"3(<*2345*+"(29(*7#973(3+"3(:94(85"245/02597B(=9"2576B("*+3(94(92; 34(<3*7"(9:(85""3<57*2597B(
                                      ((1("208372(>; 9(376*63"(57("0$; ($9780$2(<*#(/3(
>52; 902(2; 3(57"240$2940"
"0/$3$2(29(=37*+2#(:94(*(83=*42043(:49<(*$*83<5$(57236452#(*78(<*#(*+"9(:*$3(*8A34"3(+36*+
$97"3J037$3"(:94(57:45763<372(9:(5723++3$20*+(=49=342#(456:2"?((
8)17&O*)'*-,&3$*,M.'X03370"("208372"B(:*$0+2#B(*8<575"24*294"(*78("2*::(*++(; *A3(43"=97"5/5+5253"(
43"=97"5/5<sub>2</sub>+52#(*78($904*63(V"33(>>>?*$*83<5$57236452#!946[?(K; 3"3(A*+03"(*43($3724*+(29(2; 3(
/05+8576B(704204576(*78("0"2*57576(9:(*7(*$*83<5$($9<<0752#(57(>;5$; (*++(<3</34"(9:(2;3(
:9078*2597(:94(2; 3(n:43389<(9:(57J054#(*78(3N$; *763(9:(583*"n(3""3725*+(29(2; 3(5723++3$20*+(45:3(
9:(2; 3(\75A34"52\#(V"33(2; 3(.37*23( 3=942(97(!457$5=+3"(*78(!45945253"(
;22=FMM>>>?J0337"0?**M"3$432*45*2M=9+5$53"M"37*23M43=942R=457$5=+3"R*78R=45945253"[?(1.5)]
. 208372"(*43(43"=97"5/+3(:94(:*<5+5*45e576(2; 3<"3+A3"(>52; (2; 3(4360+*2597"($97$347576(*$*83<5$(
57236452#(*78(:94(37"04576(2; *2(2; 354(*""567 < 372"(*78(2; 354(/3; *A5904($97:94 < (29(2; 3(=457$5=+3"(
9:(*$*83<5$(57236452#?(C7:94<*2597(97(*$*83<5$(57236452#(5"(*A*5+*/+3(57(2; 3(] 42"(*78(. $537$3(
G*+378*4(V"33(1)*83<5$( 360+*2597(E(;22=FMM>>>;JO337"0?$*M*42"$5M*$*83<5$R
$*+378*4"M4360+*2597"M*$*83<5$R4360+*2597"M4360+*2597RE[B(97(2; 3(] 42"(*78(. $537$3(>3/"523(V"33(
; 22="FMM>>>?J0337"0?$*M*42"$5M"208372"R*2RJ0337"M*$*83<5$R57236452#[B(*78(:49<(2; 3(
57"240$294(9:(2:5"($904"3?(H3=*42043"(:49<(*$*83<5$(57236452#(57$+083(=+*65*45"<)B(0"3(9:(
07*02; 945e38( < *2345*+"B(: *$5+52*2597B(: 94634#(*78(: *+"5:5$*2597B(*78(*43(*7252; 325$*+(29(2; 3(...*294524345))))))))))
83A3+9=<372(9:(*7(*$*83<5$($9<<0752#(*2(X03370"?(L5A37(2; 3("34590"73""(9:(2; 3"3(<*2234"b(
```