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$1.*<.:E :<; #/53N
#3@4=@;/<13N =<13<B@/B7=<
'316<71/:N#@=2C1B7=<N =<13<B@/B7=<

#
7=:6*42;5E*6-E!;26<E .-2* #/53N
$ E!)# E % $ E E" " $
755=62<AE .*4<1 #/53N
3@=<B=:=5GN =<13<B@/B7=<
3/:B6N&3@D713AN 2;7<7AB@/B7=<N =<13<B@/B7=<
3/:B6N 2C1/B7=<N N#@=:=B7=<N =<13<B@/B7=<
@.:;2;.E#,2.6,. !:;76*4E$*26260 #/53N
$ $ #E E !%$ "E# #
758=<.:E#,2.6,. #/53N
*<1.5*<2;; #/53N
!)# E# #
1.52;<:A #/53N
*:<1E E!4*6.<*:AE#,2.6,.; #/53N
6026..:260E#,2.6,. #/53N
!1A;2;; #/53N
#,2.6,.E/7:E 7.:6;2;; #/53N

;;7,2*<.E26E #,2.6,.E #
"$
26.E :<; #/53N N
@BN 7AB=@GN =<13<B@/B7=<
3@/;71AN =<13<B@/B7=<
@/E7<5N/<2N#7<B7<5N =<13<B@/B7=<
#6=B=5@/>6GN =<13<B@/B7=<
&1C:>BC@3N =<13<B@/B7=<

& " E# #E E % E# "& #
1.52,*4E .8.6-.6,AE 7=6;4260 #/53N
*:4AE 124-177-E -=,*<276 124-E *.. #/53N
<4/<1G '=22:3@N 3D3:=>;3<BN =<13<B@/B7=<
-,*<276E#<=-2;; #/53N
67:26==2N 2C1/B7=<N =<13<B@/B7=<
/@:GN 67:26==2N =<13<B@/B7=<
.6<*4E .*4<1E*6-E =5*6E#.:>2,.; #/53N
=;3AB71N)7=:3<13N =C<A3:7<5N =<13<B@/B7=<
&C0AB/<13N 0CA3N =C<A3:7<5N =<13<B@/B7=<

E# #
27470A #/53N
::732N 3/:B6N =<13<B@/B7=<
3<3@/;N 7=:5GN =<13<B@/B7=<
27<.,167470A #/53N

%# ##
,,7=6<260 #/53N
=;26.;;E -5262;<:*<276 #/53N

% $ #E E! " " E "$#
.-2*E :<; #/53N
=<13<B@/B7=<A N 2D3@B7A7<5 N <57<33@7<5 N /<53;3<B'.+;2<.E .>.4785.6<E E -5262;<:*<276 #/53N
!3EA N#3@4=@;/<13N/<2N#@=2C1B7=<

" ! # $ #
"
```

\$ E!)# E % \$ E E " \$
!1A;2,*4E -=,*<276 E",,:* <276E
",,:* <276E\$1.:*8AE #/53N
/11:/C@3/B3N#@=5@/;/AN'@/<A43@N">B7=<N
7<N&>=@BAN /</53;3<B
/11:/C@3/B3N#@=5@/;/AN'@/<A43@N">B7=<N
7<N'3/167<5N#6GA71/:N 2C1/B7=<N
%31 @3/B7=<N/<2N%31 @3/B7=<N'63@/>GN">B7=<

\$ \$ #E E !%\$ "E# #
758=<.:E 6/7:5* <276E#A;<.5; #/53N
%#
5.:0.6,AE -2,*4E#.:>2,. !*:*5.-2, #/53N N
=.;260 #/53N
#=:02,*4E\$,167470A #/53N

\$ % " # E E #! \$ \$)
=426*:AE :<; #/53N
*:2<25.E\$,167470A #/53N
/@7<3N'316<717/<N">B7=<
\$7=:2;5E E 7;82<*42<A #/53N
==2N N 3D3@/53N /</53;3<B
=A>7B/:7BGN =<13<B@/B7=<
&>=@BAN /</53;3<B
'=C@7A;N =<13<B@/B7=<

.:<2/2,*<.E!/:70:*5;
& " E# #E E % E# "& #
4,71742;5E E#=#+;<*6,.E +=;.
7=6;.4260 #/53N

\$ % " # E E #! \$ \$)
=426*:AE :<; #/53N
*:2<25.E\$,167470A E .,3E#8.,2*42<A #/53N
*:2<25.E\$,167470A E *:26.E .,1*62, #/53N

@B >/53N
36/D7=@/;/N&173<13AN/<2N C;/<N&3@D713A >/53N
7=:571/:N&173<13A >/53N
CA7<3AA >/53N
=;;C<71/B7=<AN/<2N#3@4=@;7<5N @BA >/53N
<5:7A6 >/53N
=@375<N /<5C/53A >/53N
3/:B6 N#6GA71/:N 2C1/B7=<N/<2N%31 @3/B7=< >/53N
7AB=@G N#67:=A=>6GN/<2N#=:7B71/:N&173<13 >/5
/B63;/B71AN/<2N =;>CB3@N&173<13 >/53N
!C@A7<5 >/53N
#6GA71/:N&173<13A >/53N
'=C@7A;N/<2N =A>7B/:7BG >/53N

&BC23<BAN7<NB63N 703@/:N @BAN>@=5@/;N/@3N3F>=
B63N6C;/<7B73A NA=17/:NA173<13A NA173<13 N/<2
;/B63;/B71A N'63N=0831B7D3AN/@3NA7;7:/@NB=NB63
>@3A1 @7032N1=C@A3AN4@3?C3<B:G 4=C<2N7<NB63
G3/@AN=4N0/11/:/C@3/B3N:703@/:N/@BAN>@=5@/;A NN
E6=N>:/<NB=N1=<B7<C3NB637@NABC273AN/<2N3/@<N6
235@33A N47<2NB6/BNB637@N 7<5A0=@=C56N N235@
A3@D3AN/AN/NA=:72N4=C<2/B7=<N4=@NB@/<A43@NB=
>@=43AA7=</:N1=:353 N#@=D7A7=<AN4=@NA;==B6NB@
03BE33<N N/<2N (!+ N&(!+N/<2N;/<GN>@7D/B3
1=:353AN/@3N7<N34431B NN

'63N N7<N @7;7</:N CAB713N7AN/N8=7<BN>@=5@/;NE
(!+IAN =6<N /GN =:353N=4N @7;7</:N CAB713

E " E "\$# B
\$ \$ E " \$# E
".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ &%
M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7);8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43
M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C
M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??>A>E43
>DCB834 02C8E8CH 7?4&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$
>DAB4B 0??>A>E43 5>A +\$/ ><<= >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7&74):(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A
-74A4 0??;8201;4 => <>A4 C70= 5>DA 2>DAB4B A4@D8A43
5>A C74 "814A0; ACB <09>A 0;B> B0C8B5H (4@D8A43 >A ;4G81;4
>A4 A4@D8A4<4=CB

\$ # \$! \$
\$ 2A438CB
\$
#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6
"854 0=3 &7HB820;)284=24B

* ! \$
%=4 2>DAB4 5A>< 4027 A>D? L ?;DB 0= 0338C8>=0;
2>DAB4 5A>< 0=H A>D?; 9;>1 @4-: @C; /;A>?1? 5:
@41 ?-91 05?/5<85:1
->A;3 D;CDA4B 0=3 ;>10; BBD4B
+) G?4A84=24 8= 8CB 8E4AB8CH
A40C8E4 G?A4BB8>=
=38E83D0; 0=3)>284CH
)284=C8582 ->A;3
"8A? 0=>C74A 2>DAB4 B4;42C43 5A>< 0=H A>D?

;@1 />D <0H 4;42C C> C0:4 0 <0C7 >A B284=24 2>DAB4 C70C 8B
2A438CB >A <>A4 * & 2>D=CB 2A438CB C>FOA3B C74 A4@D8A4<4=C
0=3 C74 C7 2A438C 0B 4;42C8E4

\$ \$ # \$ &% F
":81?? ?<1/52510 .E E;A> /;:1:@>-@5;; :; 9;>1
@4-: 2;A> ;2 @41 2;88;C5:3 :5:1 /;A>?1? 9-E
-8?; ?-@5?2E - ' + !\$ >1=A5>191:@

AC #4380 0=3 8;<)CD384B #DB82 >A *740CA4 2A438CB
)?4427
"8C4A0CDA4
&78;>B>?7H
<4A820= &>;8C82B
<4A820= 8BC>AH
->A;3 8BC>AH >A =C7A>?>;>6H
&BH27>;>6H
)>28>;>6H

& (% L 2A438CB BD558284=C C> <44C A4@D8A43
C>C0; 2A438CB 5>A C78B 346A44

2 <A>?A5:3 ;:1 ;2 @41 2;88;C5:3 /;:1:@>-@5;;?
?@A01:@? 9A?@ /;:?A8@ C5@4 @41 >1?<1/@5B1 <>;3>-9
-0B5?;> C4581 2;88;C5:3 @41 /;A>?1 ;2 ?@A0E 2;> @4-@
/;:1:@>-@5;;

\$' , % !! ! '% %%
&\$ % \$!&!
#-.8 (43(*397&9.43)4*8 349_ 1.2.9 9-* 3:2*7 4+ 47*
(4:78*8 9-&9 2&> * &184 +:1+.11 9-* 7*6:.7*2*398 +47 9-*
2&/47

M 22>D=C8=6
M DB8=4BB "0F
M #0=064<4=C =5>A<0C8>=)H#*t 8(191(47*))TJ -.24*398)7*t

'63N1=C@A3AN=443@32N7<NB63A3N>@=5@/;AN>@=D723NA=C
4=C<2/B7=<AN7<NB6=A3NA>317/:B73AN/ANE3::N/AN7<NB63N3A
:703@/:N/@BA N'63GNE3@3N23A75<32NB=N>3@;7BNABC23<BA
=>=@BC<7BGN4=@N3F>:=@/B7=< E7B6NA>317/:7H/B7=<N7<NE
473:2 N'63N 7<5A0=@=C56N & N235@33NE7::NA3@D3N/AN/
4=C<2/B7=<N4=@NB@/<A43@NB=N/NA3<7=@N=@ >@=43AA7-
=@ N4=@N/113>B7<5N/N>=A7B7=<N7<NB63N16=A3<N473:2

NABC23<BN;CABN3/@<N/BN:3/ABN/NJ KN5@/23N N7<23F N/
6/D3N4C:47::32N/:N235@33N@3?C7@3;3<BANB=N03N13@B747
235@33

!" " #

L 11=C<B7<5

L 7:=5GN E7B6NB@/<A43@N=>B7=<AN7<N ::732N 3/:B6N/<2N
3<3@/:N 7:=5G

L 7=B316<:=5G

L CA7<3AAN 2;7<7AB@/B7=<

L 327/N @BAN E7B6N1=<13<B@/B7=<AN7<N 2D3@B7A7<5 N <57
/</53;3<B N!3EA N#3@4=@;/<13 N/<2N#@=2C1B7=<

LN 63;71/:N 3>3<23<1GN =C<A3:7<5

L 63;7AB@G

L =;C<7BGN 3/:B6N E7B6N1=<13<B@/B7=<AN7<N 3@=<B:=5G
3/:B6N 2C1/B7=<N/<2N#@=;B7=< N/<2N 3/:B6N&3@D713
2;7<7AB@/B7=<

L =;>CB3@N&173<13

LN /@:GN 67:26==2N 2C1/B7=< 67:2N /@3N E7B6N1=<13<B@/B7
7<N /@:GN 67:26==2 67:2N /@3N- 7<23@5/@B3< N B6N5@/23.N
<4/<1G '=22:3@N 3D3:=>;3<BN-07@B6N N <2N5@/23.

LN /@B6N/<2N#/:<3B/@GN&173<13A

L 2C1/B7=<N&BC273AN E7B6N1=<13<B@/B7=<AN7<N /@:GN 67:
/<2N 67:26==2N 2C1/B7=<

L <57<33@7<5N&173<13

L F3@17A3N&173<13 #3@A=</:N'@/7<7<5

L 7<3N @BAN E7B6N1=<13<B@/B7=<AN7<N @BN 7AB=@G N 3@
@/E7<5N/<2N#7<B7<5 N#6=B=5@/6G N/<2N&1C:>BC@3

LN =C@</:7A;N/<2N#@7<BN 327/

L /B63;/B71A

L 3<B/:N 3/:B6N/<2N C;/<N&3@D713AN E7B6N1=<13<B@/B7=<AN
=:3AB71N)7=:3<13N =C<A3:7<5N/<2N&C0AB/<13N 0CA3
=C<A3:7<5

L #6GA71A

LN&173<13N4=@N =@3<A71A

L &>3316N =;C<71/B7=<N E7B6N1=<13<B@/B7=<AN7<N&>3316
#/B6:=5GN/<2N =;C<71/B7=<N&BC273A

L '63/B@3N @BAN E7B6N1=<13<B@/B7=<AN7<N#3@4=@;/<13N/
'316<71/:N#@=2C1B7=<

,,7=6<260
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
27470A
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
27<.,167470A
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
=;26.;E -5262;<:*<276
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
1.52,*4E .8.6-.6,AE 7=6;.4260
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
1.52;<:A
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
755=62<AE .*4<1
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
758=<.:E#,2.6.,
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
:4AE 124-177-E -=,<276E E 124-E *.:
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
*:<1E*6-E!4*6.<*:AE#,2.6.,;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
-,*<276E#<=-2.;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
6026...260E#,2.6.,
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
@.:;E#,2.6.,!.:;76*4E\$:*26260
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
26.E :<;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

7=:6*42;5E*6-E!:26<E .-2*
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
<1.5<2.;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
.-2*E :<;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
.6<*4E .*4<1E*6-E =5*6E#.:>2.,;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
!1A;2.;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
#,2.6.,E/7:E 7:.6;2.;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
#8.,1E 755=62,*<276
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N
\$1.*<.:E :<;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

E \$)

& (*# \$* 8>;>6820;)284=24B

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 7?4&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 0C C74 C8<4 >5 C78B 20C0;>6 B ?D1;820C8>=
5>A +\$/ ;4G81;4 >A4 A>D?B 0A4 ;8BC43 8= C74
*3*7&1):(&9.43 \$ % &9-<&>8 B42C8>= >= ?064
0=3 834=C85843 8= C74 >DAB4 B42C8>= 1468==8=6 >= ?064

\$ # \$! \$
\$

2A438CB

\$ \$ # \$ & % F

2 ;:@ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81

>;464 ;641A0 # * 2A438CB

4=4A0; 8>;>6H 0=3 % -:0 %

8>BC0C8BC82B % # *

4=4A0; #82A>18>;>6H %

;> 4=4C82B % 2A438CB

(42><18=0=C \$ *427=>;>6H %

; > 4;; D;CDA4 0=3 ;>=8=6 %

#>;42D;0A 0=3 4;;D;0A 8>;>6H %

4=4A0; 74<8BCAH 0=3 # -:0 #

??;820C8>=B 8= 8>8=5>A<0C82B %)

& (% 2A438CB BD558284=C C> <44C A4@D8A43 C>C0;
>5 2A438CB

%#&)) B2>A4B >5 >= &0AC >= &0AC >= &0AC

0=3 >= &0AC , >A ?A4 A4@D8B8C4 2>DAB4B A4@D8A43

*78B ?A>6A0< 70B 0 F08E4A C> A4@D8A4 ?0AC82D;0A 2>DAB4B 8= C7

><<>= >A4 >C74AF8B4 <>A4 C70= C74 <8=8<D< 2A438CB 5>A

C74 346A44 <0H 14 =424BB0AH

F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

E %# ##E # \$" \$

& (*# \$* DB8=4BB

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ #' \$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3 -A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6 4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A 34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A>< 0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0 "40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A 0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H 4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43 >DCB834 02C8E8CH 704&8.9.43 !*6:.7*2*398 8= C78B 20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<>= >A4 0C C74 C8<4 >5 C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7074);(&9.43 \$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74 >DAB4 B42C8>= 1468==8=6 >= ?064

\$ #' \$!\$

\$ 2A438CB \$ #0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6 "854 0=3 &7HB820;)284=24B

* !\$ 2A438CB

%=4 2>DAB4 5A>< 4027 A>D? L ?;DB 0= 0338C8>=0; 2>DAB4 5A>< 0=H A>D? ; 9;>1 @4-: @C; /;A>?1? 5: @41 ?-91 05?/5<85:1 >DAB4B C70C B0C8B5H 4027 A>D? 0A4 ;8BC43 8= C74 74,7&28 &3) 4:78* !*6:.7*2*398 B42C8>= >5 C78B 20C0;>6 ">>: >= C78B ;8BC 5>A 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A

->A;3 D;CDA4B 0=3 ;>10; BBD4B +) G?4A84=24 8= 8CB 8E4AB8CH A40C8E4 G?A4BB8>= =38E83D0; 0=3)>284CH)284=C8582 ->A;3 "8A? 0=>C74A 2>DAB4 B4;42C43 5A>< 0=H A>D?

;@1 />D <0H 4;42C C> C0:4 0 <0C7 >A B284=24 2>DAB4 C70C 8B 2A438CB >A <>A4 * & 2>D=CB 2A438CB C>F0A3B C74 A4@D8A4<4=C 0=3 C74 C7 2A438C 0B 4;42C8E4

\$ \$ #' \$ &% F

D=30<4=C0;B >5 22>D=C8=6 2A438CB

D=30<4=C0;B >5 22>D=C8=6

%A60=8I0C8>=0; 470E8>A 0=3 #0=064<4=C

=CA>3D2C8>= C> ><?DC4A >=24?CB

#>=4H 0=3 0=:8=6 %

D=30<4=C0;B >5 DB8=4BB

DB8=4BB ><<D=820C8>=B

DB8=4BB "0F

&A8=28?;4B >5 #0A:4C8=6

& (% 2A438C BD558284=C C> <44C A4@D8A43 C>C0; >5 2A438CB

F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

E E !)

% #

& (*# \$ 470E8>A0;)284=24B 0=3 D<0=)4AE824B

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?:4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43
M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C
M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 704&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<=> >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7&74):(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A
<>BC 45542C8E4 F0H C> 27>>B4 ><<=> >A4 2>DAB4B 8B 8=
2>=BD;C0C8>= F8C7 H>DA &A>6A0< 3E8B>A

\$ # \$!\$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6
"854 0=3 &7HB820;)284=24B

* !\$

2A438CB

%=4 2>DAB4 5A>< 4027 A>D? L ?;DB 0= 0338C8>=0;
2>DAB4 5A>< 0=H A>D? ; 9;>1 @4-: @C; /;A>?1?
5: @41 ?-91 05?/5<85:1 >DAB4B C70C B0C8B5H 4027
A>D? 0A4 ;8BC43 8= C74 74,7&28 &3) 4:78* !*6:.7*2*398
B42C8>= >5 C78B 20C0;>6 ">>: >= C78B ;8BC 5>A 2>DAB4B 0;B>
A4@D8A43 5>A C74 <09>A

->A;3 D;CDA4B 0=3 ;>10; BBD4B
+) G?4A84=24 8= 8CB 8E4AB8CH
A40C8E4 G?A4BB8>=
=38E83D0; 0=3)>284CH
)284=C8582 ->A;3
&;DB 0=>C74A 2>DAB4 B4;42C43 5A>< 0=H A>D?

;@1 />D <0H 4;42C C> C0:4 0 <0C7 >A B284=24 2>DAB4 C70C 8B
2A438CB >A <>A4 * & 2>D=CB 2A438CB C>F0A3B C74 A4@D8A4<4=C
0=3 C74 C7 2A438C 0B 4;42C8E4

\$ \$ # \$ & % F

1=>A<0; &BH27;>;>6H &)/ 2A438CB
=CA>3D2C8>= C>)D1BC0=24 1DB4 >D=B4;8=6)
0B82 *427=8@D4B 8=)D1BC0=24 1DB4 >D=B4;8=6
)
0B82 *427=8@D4B 8=)D1BC0=24 1DB4 >D=B4;8=6
)
C782B >=5834=C80;8CH >D=B4;>A ;84=C (4;0C8>=B78?
)
*A40C<4=C ??A>0274B 8=)D1BC0=24 1DB4)
><?D;B8E4 0<1;8=6 *A40C<4=C 0=3 &A4E4=C8>=
) ;>

\$ \$ # \$ & % F
 -6;>? 9A?@ @-71
 >=24?CB >5 -4;:=4BB & 2A438CB
 =CA>3D2C8>= C> ><<D=8CH 40;C7 %
 A8C820; BBD4B 8= ><<D=8CH 40;C7 %
 &A8=28?;4B >5 ?834<8>;>6H %
 ><<D=8CH 40;C7 =C4AE4=C8>=B %
 =CA>3D2C8>= C> ><?DC4A >=24?CB
 ;> %55824 ><?DC4A ??;820C8>=B *
 ;> =CA>3D2C8>= C> ><?DC4AB 0=3 ><?DC4A
 ??;820C8>=B &

"8A? ?181/@ ! ;2 @41 2;88;C5:3 ;<@5;:?

\$! &! ! +
 =CA>3D2C8>= C> 4A>=C>;>6H # 2A438CB
 *74A0?4DC82 (42A40C8>= 5>A =38E83D0;B F8C7
 8B018;8C84B (& ;> (&
 &4AB?42C8E4B >= 40C7 0=3 H8=6 \$+(

& % \$(% %&\$&!
 D=30<4=C0;B >5 DB8=4BB 2A438CB
 %A60=8I0C8>=0; 470E8>A 0=3 #0=064<4=C
 #02A>42>=><82B % ;> #82A>42>=><82B
 %

& ' &! "\$! !&!
 &C; ;2 @41 2;88;C5:3 /;A>?1? 2A438CB
 -><4= B 40;C7 BBD4B
 AD6B *74 =38E83D0; 0=3)>284CH
 \$DCA8C8>= 0=3 40;C7
 D<0=)4GD0;8CH
 84;3 G?4A84=24 8= ><<D=8CH 40;C7 %

& (% L BD558284=C C> <44C A4@D8A43 C>C0; >5
 2A438CB

)CD34=CB F7> 34<>=BCA0C4 ?A>58284=2H 8= 2><?DC4A 2>=24?CB
 <0H A4@D4BC ?4A<8BB8>= 5A>< C74 &A>6A0< 8A42C>AB C>
 2><?;4C4 2A438CB 8= 40;C7 3D20C8>= 8=BC403
 F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

E !%\$ "E#

& (*# \$* #0C74<0C82B 0=3 ><?DC4A)284=24B
 \$\$ E " \$# E
 ".9=2:.5.6<;E/7:E *<:2,=4*6<;
 ! \$ #' \$ &%
 M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
 -A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
 4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
 34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43
 M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
 0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
 "40A=8=6 ><<D=8CH C707 &0AC

\$ \$ #' \$ &% F
 2 ;;@ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81
 ;>1 @41 2;88;C5:3 ->1 >1=A5>10
 =CA>3D2C8>= C> ><?DC8=6) 2A438CB
 3E0=243 &A>6A0<<8=6 *427=8@D4B)
 ><?DC4A 0=3 BB4<1;H "0=6D064 &A>6A0<<8=6
)
 8B2A44C)CAD2CDA4B)
 0;2D;DB 0=3 0=3 #* -:0 #*
 -:0 #*
 "8=40A ;641A0 #*
 8>BC0C8BC82B #* % ;>
 DB8=4BB)C0C8BC82B #*
 8554A4=C80; @D0C8>=B #*
 A8C820; BBD4B 8= &4AB>=0; 40;C7

%#&)) B2>A4B >5 >= &0AC >= &0AC >= &0AC
 0=3 >= &0AC , >A ?A4 A4@D8B8C4 2>DAB4B A4@D8A43
 &0BB8=6 B2>A4 >= &0AC 0=3 <8=8<D< B2>A4 >5 >= &0AC >5
 C74 %#&)) 4G0< >A ?A4A4@D8B8C4 2>DAB4B A4@D8A43
 *78B ?A>6A0< 70B 0 F08E4A C> A4@D8A4 ?0AC82D;0A 2>DAB4B 8= C74
 ><<>= >A4 >C74AF8B4 <>A4 C70= C74 <8=8<D< 2A438CB 5>A
 C74 346A44 <0H 14 =424BB0AH
 F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

\$ \$ # \$ & % F
-6;>? 9A?@ @-71
)>280; >D=30C8>=B >5 3D20C8>= 2A438CB
78;3 0=3 3>;4B24=C 4E4;>?<4=C &)/
&BH27>;>6820; 8B>A34AB 8= />D=6 78;3A4= &)/ !\$
!\$ &\$ % \$ &! & ! ! %&& %
8BC>A820; 4>6A0?7H)
)>280;)284=24 8= 3D20C8>=
AC ->A:B7>? 8= 3D20C8>=

E "\$ E E! \$")E

#

& (*# \$* &7HB820;)284=24B

\$ \$ E " \$# E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ #' \$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M % =4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 704&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 0C C74 C8<4 >5 C78B 20C0;>6 B ?D1;820C8>=
5>A +\$/ ;4G81;4 >A4 A>D?B 0A4 ;8BC43 8= C74
*3*7&1):(&9.43 \$ % &9-<&>8 B42C8>= >= ?064
0=3 834=C85843 8= C74 >DAB4 B42C8>= 1468==8=6 >= ?064

\$ #' \$!\$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

;>

"854 0=3 &7HB820;)284=24B

; > % ;> " ;> "
> " ;> " ;> " ;> "

* !\$

% =4 2>DAB4 5A>< 4027 A>D? r4156 287.1" Tf -12.29 Tm3118D31>DAB4B >= -18d [(0;2A438CB)]T298 -1.44002>DAB4 5A>< A>D? r41-

E " E#

& (*# \$* &\032 .48 k /T1_0 6

E (" # E# E
! "# E\$"

\$ \$ # \$ &% F
2 :;@ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81

& (*\$* 40;C7 &7HB820; 3D20C8>= 0=3 (42A40C8>=
\$ \$ E " \$ # E
".9=2:.5.6<;E/7:E * <:2,=4*6<;

! \$ # \$ &%
M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43
M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C
M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 784&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$
>DAB4B 0??A>E43 0C C74 C8<4 >5 C78B 20C0;>6 B ?D1;820C8>=
5>A +\$/ ;4G81;4 >A4 A>D?B 0A4 ;8BC43 8= C74
*3*7&1):(&9.43 \$ % &9-<&>8 B42C8>= >= ?064
0=3 834=C85843 8= C74 >DAB4 B42C8>= 1468==8=6 >= ?064

\$ # \$!\$
\$ 2A438CB
\$
#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6
"854 0=3 &7HB820;)284=24B
;>

* !\$
%=4 2>DAB4 B4;42C43 5A>< 4027 >5 C74 5>;;>F8=6 6A>D?B
L ?;DB 0= 0338C8>=0; 2>DAB4 5A>< A>D? ;
9;>1 @4-: @C; /;A>?1? 5: @41 ?-91 05?/5<85:1
->A;3 D;CDA4B 0=3 ;>10; BBD4B
+) G?4A84=24 8= 8CB 8E4AB8CH
A40C8E4 G?A4BB8>=
=38E83D0; 0=3)>284CH
)284=C8582 ->A;3
47 47
. + 349 9&0*3 +47 !*6:.7*) 47*
"8A? 0=>C74A 2>DAB4 B4;42C43 5A>< A>D? ;8BC_01>E4
. + 349 9&0*3 +47 !*6:.7*) 47 1*='1* 47*

;@1 />D <0H 4;42C C> C0:4 0 <0C7 2>DAB4 C70C 8B 2A438CB >A
>A <>A4 * & 2>D=CB 2A438CB C>F0A3B C74 A4@D8A4<4=C 0=3 C74
C7 2A438C 0B 4;42C8E4

E E "\$#

& (*# \$* AC

\$ \$ E " \$# E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ #' \$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 704&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<>= >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7074);(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A *74
<>BC 45542C8E4 F0H C> 27>>B4 ><<>= >A4 2>DAB4B 8B 8=
2>=BD;C0C8>= F8C7 H>DA &A>6A0< 3E8B>A

\$ #' \$!\$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

"854 0=3 &7HB820;)284=24B

* !\$

2A438CB

%=4 2>DAB4 5A>< 4027 A>D? L ?;DB 0= 0338C8>=0;

2>DAB4 5A>< 0=H A>D? ; 9;>1 @4-: @C; /;A>?1?

5: @41 ?-91 05?/5<85:1 >DAB4B C70C B0C8B5H 4027 A>D?

0A4 ;8BC43 8= C74 74,7&28 &3) 4:78* !*6:.7*2*398 B42C8>=

>5 C78B 20C0;>6 ">>: >= C78B ;8BC 5>A 2>DAB4B 0;B> A4@D8A43

5>A C74 <09>A

3002

E %" # E
E!" \$E

& (*# \$* =6;8B7

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 784&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<>= >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7&74):(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
4>E43434

E \$ \$

& (*\$* #0C74<0C82B 0=3 ><?DC4A)284=24B

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?;4C8>=>5 +\$/ *4BCB 8= (4038=6 0=3 -A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6 4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A 34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A>< 0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0 "40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A 0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H 4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43 >DCB834 02C8E8CH 7?A&9.43 !*6:.7*2*398 8= C78B 20C0;>6

' + !\$ >DAB4B 0??A>E43 0C C74 C8<4 >5 C78B 20C0;>6 B ?D1;820C8>= 5>A +\$/ ;4G81;4 >A4 A>D?B 0A4 ;8BC43 8= C74 *3*7&1):(&9.43 \$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74 >DAB4 B42C8>= 1468==8=6 >= ?064

\$ # \$!\$ \$ 2A438CB \$ #0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6 # ;> # ;> # ;> # "854 0=3 &7HB820;)284=24B

* !\$ %=4 2>DAB4 5A>< 4027 6A>D? L ?;DB 0= 0338C8>=0; 2>DAB4 5A>< 6A>D? ; 9;>1 @4-: @C; /;A>?1? 5: @41 ?-91 05?/5<85:1

->A;3 D;CDA4B 0=3 ;>10; BBD4B +) G?4A84=24 8= 8CB 8E4AB8CH A40C8E4 G?A4BB8>= =38E83D0; 0=3)>284CH)284=C8582 ->A;3 # ;> # ;> # ;> # # ;> " ;> " .+ 349 9&0*3 +47 !*6:.7*) 47* "8A? 0=>C74A 2>DAB4 B4;42C43 5A>< A>D? ;8BC 01>E4 .+ 349 9&0*3 +47 !*6:.7*) 47 1*='1* 47*

\$ \$ # \$ & % F 2 ;: @ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81 ;>1 @41 2;88;C5:3 ->1 >1=A5>10 0;2D;DB 0=3 0=3 #* -:0 #* -:0 #* 2A438CB 8554A4=C80; @D0C8>=B #* "8=40A ;641A0 #* 8>BC0C8BC82B #* % >A DB8=4BB)C0C8BC82B #* =CA>3D2C8>= C> ><?DC8=6) 8B2A4C4)CAD2CDA4B) 4;;?1 @C; /;A>?1? 5A><) ;>) ;> #* A8C820; BBD4B 8= &4AB>=0; 40;C7 2A438C

%#&)) B2>A4B >5 >= &0AC >= &0AC >= &0AC 0=3 >= &0AC , >A ?A4 A4@D8B8C4 2>DAB4B A4@D8A43 &0BB8=6 B2>A4 >= &0AC 0=3 <8=8<D< B2>A4 >5 >= &0AC >5 C74 %#&)) 4G0< >A ?A4A4@D8B8C4 2>DAB4B A4@D8A43 *78B ?A>6A0< 70B 0 F08E4A C> A4@D8A4 ?0AC82D;0A 2>DAB4B 8= C74 ><<=> >A4 >C74AF8B4 <>A4 C70= C74 <8=8<D< 2A438CB 5>A C74 346A44 <0H 14 =424BB0AH F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

E E "\$#

& (*# \$* ><<D=820C8>=B 0=3 &4A5>A<8=6 ACB

\$ \$ E " \$# E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$# \$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A

E \$ E \$ E

% E# "& #

& (*# \$* 470E8>A0;)284=24B 0=3 D<0=)4AE824B

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ #' \$ & %

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 7041&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<=> >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7074);(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A

\$ #' \$!\$

\$ 2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

"854 0=3 &7HB820;)284=24B

* !\$ 2A438CB

%=4 2>DAB4 5A>< 4027 A>D? L ?;DB 0= 0338C8>=0;

2>DAB4 5A>< 0=H A>D? ; 9;>1 @4-: @C; /;A>?1?

5: @41 ?-91 05?/5<85:1

->A;3 D;CDA4B 0=3 ;>10; BBD4B

+) G?4A84=24 8= 8CB 8E4AB8CH

A40C8E4 G?A4BB8>=

=38E83D0; 0=3)>284CH

)284=C8582 ->A;3

"8A? 0=>C74A 2>DAB4 B4;42C43 5A>< 0=H A>D?

;@1 />D <0H 4;42C C> C0:4 0 <0C7 >A B284=24 2>DAB4 C70C 8B

=CA>3D2C8>= C> D<0=)4AE824282A>:4 903#

E!)#

& (*\$ \$ &7HB820;)284=24B

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3 -A8C8=6 0=3 C74 %#&)) #0C7);8;;B *4BC F8C7 ?0BB8=6 4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A 34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43 M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A>< 0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0 "40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A 0;B> B0C8B584B C78B A4@D8A4<4=C M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H 4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43 >DCB834 02C8E8CH 7?4&9.43 !*6:.7*2*398 8= C78B 20C0;>6

' + !\$ >DAB4B 0??A>E43 0C C74 C8<4 >5 C78B 20C0;>6 B ?D1;820C8>= 5>A +\$/ ;4G81;4 >A4 A>D?B 0A4 ;8BC43 8= C74 *3*7&1):(&9.43 \$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74 >DAB4 B42C8>= 1468==8=6 >= ?064

\$ # \$!\$

\$

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

;>

"854 0=3 &7HB820;)284=24B

; > % ;>

% ;> " ;> " ;> "

* !\$

%=4 2>DAB4 5A>< 4027 6A>D? L ?;DB 0= 0338C8>=0; 2>DAB4 5A>< A>D? ; 9;>1 @4-: @C; /;A>?1? 5: @41 ?-91 05?/5<85:1 >DAB4B C70C B0C8B5H 4027 6A>D? 0A4 ;8BC43 8= C74 74,7&28 &3) 4:78* !*6:.7*2*398 B42C8>= >5 C78B 20C0;>6

->A;3 D;CDA4B 0=3 ;>10; BBD4B +) G?4A84=24 8= 8CB 8E4AB8CH A40C8E4 G?A4BB8>= =38E83D0; 0=3)>284CH)284=C8582 ->A;3

;> # 47 ;> ;> % ;> % ;>

" ;> " ;> "

.+ 349 9&0*3 +47 !*6:.7*) 47*

"8A? 0=>C74A 2>DAB4 B4;42C43 5A>< A>D? ;8BC 01>E4

.+ 349 9&0*3 +47 !*6:.7*) 47 1*='1* 47*

\$ \$ # \$ & % F

2 ::@ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81 ;>1 @41 2;88;C5:3 ->1 >1=A5>10

0;2D;DB 0=3 #* -:0 #* 2A438CB

4=4A0; 74<8BCAH 0=3 # -:0 #

3E0=243 4=4A0; &7HB82B 0=3

& / -:0 & /

3E0=243 ;42C8E4B 27>>B4

L

8C74A#* >A _ #* (-448* 431> 43*

; > 8C74A (>A _ ((-448* 431> 43*

; > 8C74A&) >A _ &) >A &) (-448*

431> 43* ;> & / GG

& (% L 2A438CB BD558284=C C> <44C A4@D8A43 C>C0; >5 2A438CB

%#&)) B2>A4B >5 >= &0AC >= &0AC >= &0AC 0=3 >= &0AC , >A ?A4 A4@D8B8C4 2>DAB4B A4@D8A43

*78B ?A>6A0< 70B 0 F08E4A C> A4@D8A4 ?0AC82D;0A 2>DAB4B 8= C74 ><<<= >A4 >C74AF8B4 <>A4 C70= C74 <8=8<D< 2A438CB 5>A C74 346A44 <0H 14 =424BB0AH

F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

E#! E % \$

& (*# \$* ><<D=820C8>=B 0=3 &4A5>A<8=6 ACB

\$ \$ E " \$# E E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$#\$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0

E\$ \$" E "\$#

& (*\$* ><<D=820C8>=B 0=3 &4A5>A<8=6 ACB

\$ \$ E " \$ # E E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ #' \$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 70448.9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$
>DAB4B 0??A>E43 5>A +\$/ ><<>= >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7074);(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A *74
<>BC 45542C8E4 F0H C> 27>>B4 ><<>= >A4 2>DAB4B 8B 8=
2>=BD;C0C8>= F8C7 H>DA &A>6A0< 3E8B>A

\$ #' \$!\$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

"854 0=3 &7HB820;)284=24B

* !\$

2A438CB

%=4 2>DAB4 5A>< 4027 A>D? L ?;DB 0= 0338C8>=0;

2>DAB4 5A>< 0=H A>D? ; 9;>1 @4-: @C; /;A>?1?

5: @41 ?-91 05?/5<85:1

->A;3 D;CDA4B 0=3 ;>10; BBD4B

+) G?4A84=24 8= 8CB 8E4AB8CH

A40C8E4 G?A4BB8>=

=38E83D0; 0=3)>284CH

)284=C8582 ->A;3

"8A? 0=>C74A 2>DAB4 B40\$2C8E4 8= /;A>?1?



758=<.:E 6/7:5*<276E#A;<.5;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

=426*.AE :<;
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

5.:0.6,AE .-2,*4E#.:>2,.;E E!*:5.-2,
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

*;1276E .;206
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

.*812,E .;206E*6-E 44=;<:*<276
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

*:2<25.E\$,167470A
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

=;:260
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

//2,.E -5262;<:*<276E*6-E\$,167470A
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53AN N/<2N

!1A;2,*4E -,*<276 E".,;.*<276E*6-E".,;.*<276
\$1.:*8A
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

!1A;2,*4E\$1.:*82;<E ;;2;<*6<
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

".<*24E .;1*6-2;260
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

#=:02,*4E\$,167470A
%3?C7@3;3<B N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

\$7=:2;5E*6-E 7;82<*42<A
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

!.+;2<.E .>.4785.6<E*6-E -5262;<:*<276
%3?C7@3;3<BA N>/53N
=C@A3N 3A1@7>B7=<A N>/53N

E !%\$ "E " \$

#)#\$ #

& (*# \$* #0C74<0C82B 0=3 ><?DC4A)284=24B

\$ \$ E " \$# E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$#\$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3

-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6

4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A

34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><

0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0

E % ")E "\$#

\$ \$ # \$ &% F
=CA>3D2C8>= C> &A>54BB8>=0; >>3)4AE824 * 2A438CB
D;8=0AH ACB):8;;B
D;8=0AH ACB #09>A *427=8@D4B
0:8=6 0=3 &0BCAH
>>3)054CH 0=3)0=8C0C8>= 4AC85820C8>=
0A34 #0=64A 0=3 70A2DC4A84 ;>
&0C8BB4A84
4E4A064 #0=064<4=C ;>
E4=C 0C4A8=6 #0=064<4=C *
(4BC0DA0=C 0=3 >>3)4AE824 %?4A0C8>=B *
#4=D 0=3 8=8=6 (>>< #0=064<4=C *
=C4A=B78? 8= D;8=0AH ACB
=CA>3D2C8>= C> DB8=4BB ;> "01>A (4;0C8>=B
DBC><4A)4AE824 &A02C824B *
>>3 0=3 4E4A064 >BC >=CA>;
A8C820; BBD4B 8= &4AB>=0; 40;C7

F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

\$ \$ #' \$ &% F
2 ::@ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81
;>1 @41 2;88;C5:3 ->1 >1=A5>10
!& #) #) \$ \$ %
% &)/ 0=3 0 2A438C <0C7 2>DAB4 <DBC 14
2><?;4C43 145>A44=A>;;8=6 8= C74 2;8=820; ?70B4 >5 C74
?0A0<4382 ?A>6A0< #) >DAB4B C7A>D67
D<0= =0C><H &7HB8>;>6H 0=3
% -:0 % 2A438CB
4=4A0; &BH27>;>6H &)/

E # E

& (*# \$* DB8=4BB

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ #' \$ & %

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M % =4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH784&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<=> >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7874);(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064

\$ #' \$!\$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6
"854 0=3 &7HB820;)284=24B

* !\$

\$8=4 2A438CB F8C7 >=4 2>DAB4 5A>< C7A44
6A>D?B -/4 /;A>?1 9A?@ .1 5: - 05221>1:@
05?/5<85:1

->A;3 D;CDA4B 0=3 ;>10; BBD4B

+) G?4A84=24 8= 8CB 8E4AB8CH

A40C8E4 G?A4BB8>=

=38E83D0; 0=3)>284CH

)284=C8582 ->A;3

;@1 />D <0H 4;42C C> C0:4 0 <0C7 >A B284=24 2>DAB4 C70C 8B
2A438CB >A <>A4 * * !\$

E " ! E # E

% # \$ " \$

& (* # \$ * AC

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E * <:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 % # &) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M % =4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 784&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + ! \$

>DAB4B 0??A>E43 5>A +\$/ ><<=> >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7&74):(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A

\$ # \$! \$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

"854 0=3 &7HB820;)284=24B

* ! \$

\$8=4 2A438CB F8C7 >=4 2>DAB4 5A>< C7A44

6A>D?B -/4 /;A>?1 9A?@ .1 5: - 05221>1:@

05?/5<85:1

->A;3 D;CDA4B 0=3 ;>10; BBD4B

+) G?4A84=24 8= 8CB 8E4AB8CH

A40C8E4 G?A4BB8>=

=38E83D0; 0=3)>284CH

)284=C8582 ->A;3

:@1 />D <0H 4;42C C> C0:4 0 <0C7 >A B284=24 2>DAB4 C70C 8B

2A438CB >A <>A4 * & 2>D=CB 2A438CB C>F0A3B C74 A4@D8A4<4=C

0=3 C74 C7 2A438C 0B 4;42C8E4

\$ \$#\$ &% F
2 ;:@ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81
;>1 @41 2;88;C5:3 ->1 >1=A5>10

\$ \$#\$ &% F
%@A01:@? C5@4 @E<5:3 ?7588? 9-E .1 1D19<@ 2>;9
18191:@->E -:0 ;> 5:@1>9105-@1 /;A>?1? A<; /;:
?A8@-@5;: C5@4 @41 1<->@91:@ 0B5?;> 1<1:05:3
:: @415> 71E.->05:3 ?7588? ?@A01:@? 9A?@ @-71 ;;1
;2 @41?1 @4>11 71E.->05:3 /;A>?1 ?1=A1:/1?

E!)# E % \$
" " \$ E E" " \$
\$ " !)

&(*\$* 40;C7 &7HB820; 3D20C8>= 0=3 (42A40C8>=
\$\$ E " \$# E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$#\$ &%

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 7&4&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<=> >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7&74):(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064

\$ # \$! \$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

"854 0=3 &7HB820;)284=24B

* ! \$

\$8=4 2A438CB F8C7 >=4 2>DAB4 5A>< C7A44

6A>D?B -/4 /;A>?1 9A?@ .1 5: - 05221>1:@

05?/5<85:1 >DAB4B C0:4= C> B0C8B5H C74 ;4G81;4 >A4

B7>D;3 14 20A45D;;H B4;42C43 5>A CA0=B54A C> C74) >A

8= &7HB820; 3D20C8>= (42A40C8>= 0=3 (42A40C8>= *74A0?H

->A;3 D;CDA4B 0=3 ;>10; BBD4B

+) G?4A84=24 8= 8CB 8E4AB8CH

A40C8E4 G?A4BB8>=

=38E83D0; 0=3)>284CH

)284=C8582 ->A;3

;@1 />D <0H 4;42C C> C0:4 0 <0C7 >A B284=24 2>DAB4 C70C 8B

2A438CB >A <>A4 * & 2>D=CB 2A438CB C>F0A3B C74 A4@D8A4<4=C

0=3 C74 C7 2A438C 0B 4;42C8E4

\$ \$ # \$ & % F

-6;>? A?@ &-71

-4;;=4BB 40;C7 8C=4BB & 2A438CB

=CA>3D2C8>= C> (42A40C8>= (&

"4034AB78? 8= (42A40C8>= 0=3 &7HB820; 3D20C8>= (&

%A60=810C8>= 0=3 3<8=8BCA0C8>= >5 (42A40C8>= &A>6A0<B
(&

84;3 G?4A84=24 8= &7HB820; 3D20C8>= (42A40C8>= 0=3

(42A40C8>= *74A0?H (&

" % ! ! & ! !) !"&! % '%&

!" &

\$ \$ &! \$ \$ &! & \$ "+

)>280; (42A40C8>= (& 2A438CB

#4C7>3B 0=3 #0C4A80;B 5>A *40278=6 >; 0=3)@D0A4

0=24 (&

*74A0?4DC82 (42A40C8>= 5>A =38E83D0;B F8C7 8B018;8C84B

(&

#4C7>3B 0=3 #0C4A80;B 8= ACB 0=3 A05CB (&

*74A0?4DC82 (42A40C8>= 5>A =38E83D0;B F8C7 8B018;8C84B

(&

*74 BB4BB<4=C &A>24BB 8= *74A0?4DC82 (42A40C8>= (&

84;3 G?4A84=24 8= (42A40C8>= 0=3 (42A40C8>= *74A0?H

(&

8ABC 83 0=3 &4AB>=0;)054CH

&\$ % \$ &! '\$ & "\$! \$ %

& " + % ' & !

8C=4BB BB4BB<4=C 0=3 &A4B2A8?C8>= & 2A438CB

#4C7>3B 0=3 #0C4A80;B 5>A *40278=6 >; 0=3)@D0A4

0=24 (&

*74A0?4DC82 (42A40C8>= 5>A =38E83D0;B F8C7 8B018;8C84B

(&

%DC3>>A (42A40C8>= (&

)?>AC 0=3 <4A820=)>284CH (&

#4C7>3B >5 *40278=6 8C=4BB 0=3 (42A40C8>= 2C8E8C84B

(&

8ABC 83 0=3 &4AB>=0;)054CH

&7HB820; 3D20C8>= 2>DAB4B 8= C40< >A 8=38E83D0; B?>ACB

0=3 B:8;;B

&;40B4 B4;42C 5A>< 0??A>E43 ;8BC 0E08;01;4 5A>< C74 ?A>6A0<

>55824 A>><

&\$ % \$ &! '\$ & "\$! \$ %

%!"\$&% &

=CA>3D2C8>= C>)?>ACB #0=064<4=C (& 2A438CB

028;8C84B0==8=6 8=)?>ACB (&

D=30<4=C0;B >5 DB8=4BB

&A8=28?;4B >5 #0A:4C8=6

%A60=810C8>=0; 470E8>A #0=064<4=C

)?>ACB 0=3 <4A820=)>284CH (&

D=30<4=C0;B >5 22>D=C8=6

& (% L 2A438CB BD558284=C C> <44C A4@D8A43 C>C0;

>5 2A438CB

J >=BD;C0C8>= F8C7 C74 4?0AC<4=C 8B A4@D8A43

(4@D8A4B 0??A>E0; >5 &A>6A0< 8A42C>A

E!)# E\$ " !#\$

\$ \$

& (*# \$* 8>;>6820;)284=24B

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?;4C8>= >5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %=4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 704&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + !\$

>DAB4B 0??A>E43 5>A +\$/ ><<>= >A4 0C C74 C8<4 >5

C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7074);(&9.43

\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74

>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B

A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A

\$ # \$!\$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

#

"854 0=3 &7HB820;)284=24B

; >

* !\$

*74 5>;>F8=6 2>DAB4B 0A4 A4@D8A43 8= C74 <09>A 0=3

0;B> B0C8B5H C74B4 >A4 20C46>A84B

A40C8E4 G?A4BB8>=

"

)284=C8582 ->A;3

"% -:0

; >

.+ 349 9&0*3 +47 !*6:.7*) 47*

\$ \$ # \$ & % F

2 ;;@ @-71: 2;> @41 ' + \$1=A5>10 ;>1 ;> 81D5.81

; >1 @41 2;88;C5:3 ->1 >1=A5>10

;4<4=CB >5)C0C8BC82B # *

4=4A0; &BH27;>;>6H &)/

&D1;82)?40:8=6)&

D<0= =0C><H 0=3 &7HB8>;>6H 0=3

% -:0 %

>D=30C8>=B >5 &7HB820; *74A0?H &*

!8=4B8>;>6H ??;843 =0C><H &*

&0C7>;>6H &*

=CA>3D2C8>= C> &7HB820; *74A0?H &*

>D=30C8>=B >5 &7HB820; *74A0?H &*

#>30;8C84B 0=3 &A>243DA4B &*

74A0?4DC82 G4A28B4 &

;8=820; &A02C82D< &*

#>30;8C84B 0=3 &A>243DA4B &*

)4;42C43 *?>82B 8= &7HB820; *74A0?H &*

;8=820; &A02C82D< &*

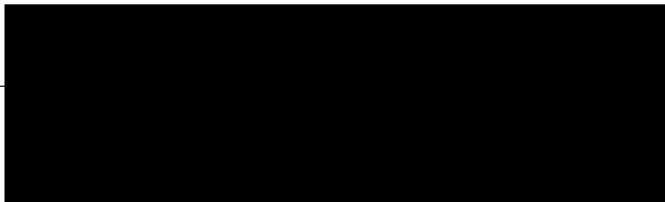
=C4A02C8>=B 8= C74 ;8=82 &*

& (% 2A438C BD558284=C C> <44C A4@D8A43 C>C0; >5
2A438CB

F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

\$ \$ #' \$ &% F
-6;>? A?@ @-71
D=30<4=C0;B >5 DB8=4BB 2A438CB
DB8=4BB "0F
&A8=28?;4B >5 #0A:4C8=6
=CA>3D2C8>= C> ><?DC4A >=24?CB
;4<4=CB >5 #0A:4C8=6 #0=064<4=C (#
)0;4B<0=B78? (#
#4A270=38B8=6 &;0==8=6 >=CA>; (#
)4<8=0A 84;3 G?4A84=24 (#
A8C820; BBD4B 8= &4AB>=0; 40;C7

"% % &! ! & ! !)
! &\$ &! %
% ! \$ %



\$ \$ #' \$ &% F
-6;>? 9A?@ @-71
=CA>3D2C8>= C> *A0E4; 0=3 *>DA8B< * 2A438CB
"01>A (4;0C8>=B DBC><4A)4AE824 *
=CA>3D2C8>= C> ><?DC4A >=24?CB
*>DA8B< >B?8C0;8CH =CA4?A4=4DAB78? *
&A8=28?;4B >5 #0A:4C8=6 ;>
*>DA8B< >B?8C0;8CH #0A:4C8=6 *
* 8=0=280; 428B8>= #0:8=6 *
84;3 G?4A84=24 8= *A0E4; 0=3 >B?8C0;8CH *
0B4)CD384B 8= *>DA8B< 0=3 >B?8C0;8CH *
*74 ,8ACD0; =C4A?A8B4 *
*74 DB8=4BB >5 *>DA8B< 0=3 >B?8C0;8CH *

" '% !\$!\$%) & ! &\$ &!

&!\$ %

E' # \$ E & ! \$

E # \$ " \$

& (*# \$* DB8=4BB

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E *<:2,=4*6<;

! \$ # \$ & %

M)D224BB5D; 2><?:4C8>=>5 +\$/ *4BCB 8= (4038=6 0=3
-A8C8=6 0=3 C74 %#&)) #0C7):8;;B *4BC F8C7 ?0BB8=6
4G0<8=0C8>= B2>A4B D=;4BB >C74AF8B4 4G4<?C >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

M %>4 -A8C8=6 =C4=B8E4 2>DAB4 8= 0=H 38B28?;8=4 5A><
0=H 20C46>AH 14;>F 8B A4@D8A43 &0AC828?0C8>= 8= 0
"40A=8=6 ><<D=8CH C70C 8=2;D34B \$ >A
0;B> B0C8B584B C78B A4@D8A4<4=C

M *F> 8E82 =6064<4=C 4G?4A84=24BOB0C8B5843 1H
4AC85843 >A ><?>=4=C 2>DAB4B >A 0??A>E43
>DCB834 02C8E8CH 704&9.43 !*6:.7*2*398 8= C78B
20C0;>6

' + ! \$

>DAB4B 0??A>E43 5>A +\$/ ><<>= >A4 0C C74 C8<4 >5
C78B 20C0;>6 B ?D1;820C8>= 0A4 ;8BC43*8=7074):(&9.43
\$ % &9-<&>8 B42C8>= >= ?064 0=3 834=C85843 8= C74
>DAB4 B42C8>= 1468==8=6 >= ?064 -74= ?>BB81;4 8C 8B
A42><<4=343 H>D 5D;58;; H>DA (4@D8A43 0=3 >A ;4G81;4 >A4
A4@D8A4<4=CB F8C7 2>DAB4B 0;B> A4@D8A43 5>A C74 <09>A

\$ # \$! \$

\$

2A438CB

\$

#0C74<0C820; 'D0=C8C0C8E4 (40B>=8=6

"854 0=3 &7HB820;)284=24B

* ! \$

\$8=4 2A438CB F8C7 >=4 2>DAB4 5A>< C7A44

6A>D?B -/4 /;A>?1 9A?@ .1 5: - 05221>1:@

05?/5<85:1

->A;3 D;CDA4B 0=3 ;>10; BBD4B

+) G?4A84=24 8= 8CB 8E4AB8CH

A40C8E4 G?A4BB8>=

=38E83D0; 0=3)>284CH

)284=C8582 ->A;3

\$ \$ # \$ & % F

-6;>? 9A?@ @-71

%55824 ><<D=820C8>=):8;;B # ;>

DB8=4BB ><<D=820C8>=

DB8=4BB "0F

*74 ><?DC4A 0B 0 4B86= *>; *

%55824 ><?DC4A ??;820C8>=B *

&7>C>3868C0; ;;DBCA0C8>= *

*#" DC7>A8=6 0=3 0E0)2A8?C)

0B82 4B:C>? &D1;8B78=6 *

-41B8C4 *427=>;>6H *

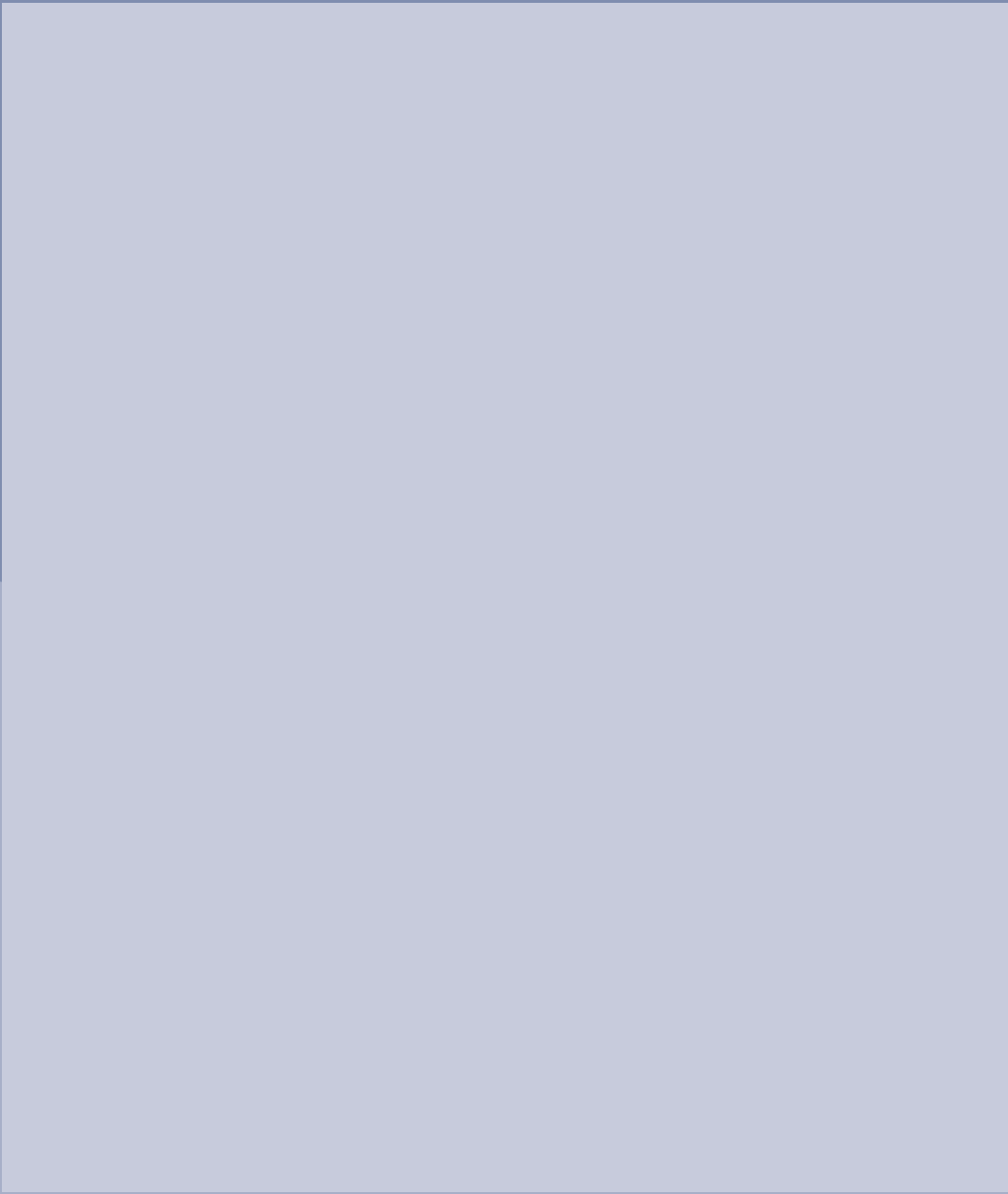
-41B8C4 *427=>;>6H *

-41B8C4 *427=>;>6H *

3>14 ;0B7 5>A -41 4E4;>?<4=C *

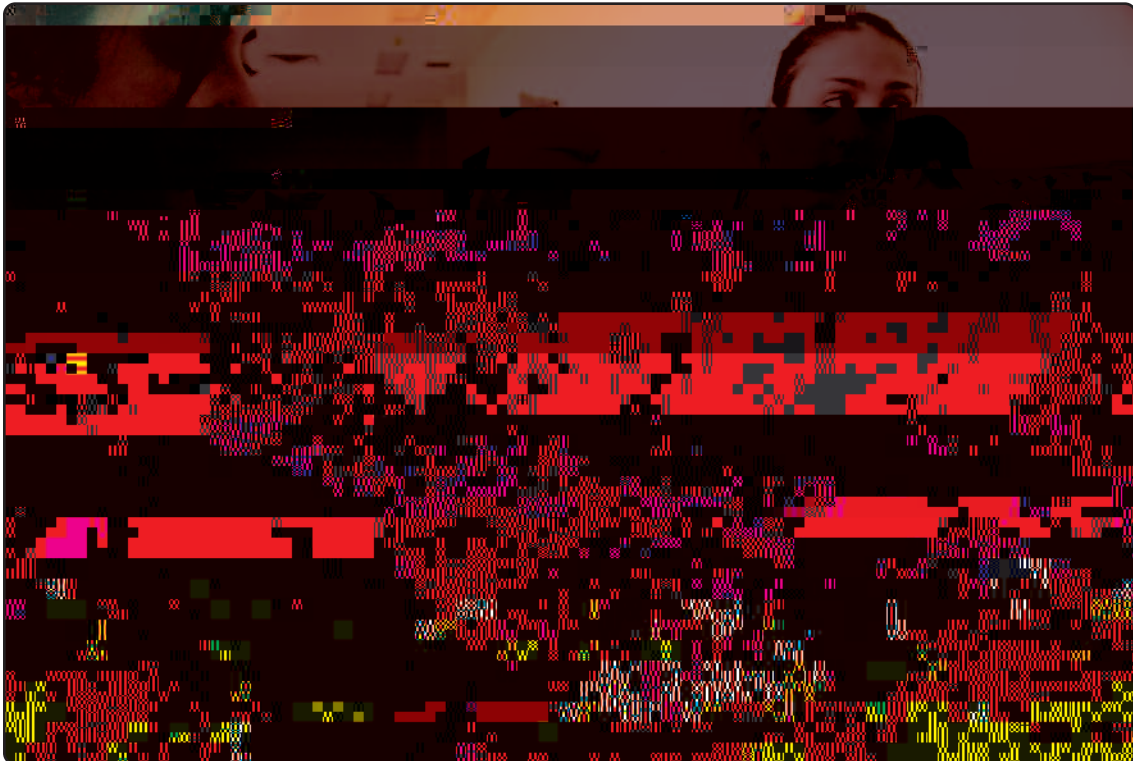
DB8=4BB *427=>;>684B #

A8C820; BBD4B 8= &4AB5>7C7003 # At



"\$ \$ E E # E
#%#\$ E % # E % #
& (*# \$* 470E8>A0;)284=24B 0=3 D<0=)4AE824B
\$\$ E " \$ # E
".9=2:.5.6<;E/7:E *<:2,=4*6<;
! \$ # \$ & %
&0BB8=6 B2>A4B >= C74 +\$/F834 8= A4038=6 FA8C8=6 0=3
&0AC A8C7<4C82 >5 C74 % # &) <0C7 B:8;;B C4BCB >A
34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43
\$ 2A438CB
\$& & \$ # \$ & % F
=CA>3D2C8>= C> ;2>7>;8B< 0=3)D1BC0=24 1DB4
>D=B4;8=6) 2A438CB
>D=B4;8=6 *427=8@D4B 8= C74)D1BC0=24 1DB4 84;3
)
>D=B4;8=6 *427=8@D4B 8= C74)D1BC0=24 1DB4 84;3
)
>=5834=C80;8CH C782B C74 >D=B4;>A ;84=C (4;0C8>=B78?
)
??A>0274B C> *A40C<4=C ,0A84C84B >5 ;2>7>;B8<
)D1BC0=24 1DB4 #>30;8C84B =C4A=B78?)
><?D;B8E4 0<1;8=6 *A40C<4=C 0=3 &A4E4=C8>=
)
)D1BC0=24 1DB4 >D=B4;8=6 84;3 =C4A=B78?B_ 0=3
) -:0)
F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

"\$ \$ E E % ")E "\$ #
& (*# \$* >DA8B< 0=3 >B?8C0;8CH
\$\$ E " \$ # E
".9=2:.5.6<;E/7:E *<:2,=4*6<;
! \$ # \$ & %
&0BB8=6 B2>A4B >= C74 +\$/F834 8= A4038=6 FA8C8=6 0=3
<0C7 B:8;;B C4BCB >A 34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43
\$& & \$ # \$ & % F
=CA>3D2C8>= C> &A>54BB8>=0; >>3B4AE824 * 2A438CB
D;8=0AH ACB):8;;B
D;8=0AH ACB #09>A *427=8@D4B
0:8=6 0=3 &0BCAH
>>3)054CH 0=3)0=8C0C8>= 4AC85820C8>=
0A34 #0=64A 0=3 70A2DC4A84
>; &0C8BB4A84
(4BC0DA0=C %?4A0C8>=B *
>; #4=D 0=3 8=8=6 (>>< #0=064<4=C *
>>3 0=3 4E4A064 >BC >=CA>;
>; 4E4A064 #0=064<4=C
>;>10; <?A>E8B0C8>= 0?BC>=4
=C4A=B78? 8= D;8=0AH ACB
=2;D34B \$0C8>=0; (4BC0DA0=C BB>280C8>= &A> #0=064<4=C
4AC85820C8>=
F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43



"\$ \$ E E " \$
\$) E E#! \$)

& (*# \$* * >DA8B< 0=3 >B?8C0;8CH

\$ \$ E " \$ # E

".9=2:.5.6<;E/7:E * <:2,=4*6<;

! \$ # \$ & %

&0BB8=6 B2>A4B >= C74 +\$/ F834 8= A4038=6 FA8C8=6 0=3
<0C7 B:8;;B C4BCB >A 34E4;>?<4=C0; 2>DAB4B <0H 14 A4@D8A43

\$& & \$ # \$ & % F

-88 %191?@1>

>0BC0; &8;>C8=6 0=3)40<0=B78? #* 2A438CB

">F ,;>C064 ;42CA820;)HBC4<B #*

#0A8=4 ;42CA>=82B #*

%<>5:3 %191?@1>

,4BB4; *427=>;>6H #*

,4BB4; *427=>;>6H #*

F >=BD;C0C8>= F8C7 C74 4?0AC<4=C 3E8B>A 8B A4@D8A43

"\$ \$ E E "

67B3DF?7@FE
3@6U5AGDE7
67E5D;BF;A@E

\$ * %\$)

TZ Z7A4A4@D8B8GZ5Z7CIFG9ZCFZH9GHZH<5HZCB9ZAI
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 Z Z5B8Z Z Z
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B;@=G<Z\$5B;I5;9Z FHGZ*9;9BHGZ L5A

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- (* \$ U U5DE U U:DE UPU U7CG3F76U5DE
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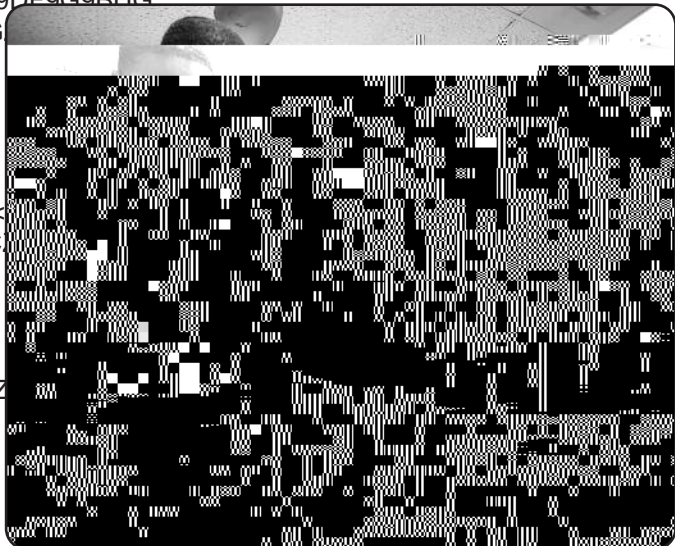
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\$%* L\$>CL>?(Z)JT-16.47720 -1.2 Td 8(C>L)-28(=0C8E4L)-28(B?40:4AB)JTJ 0 0 0 1 k /GS1 g9 0 0 910 33.30 -4.1393 Tm [(;4G8

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**COMPUTER PROGRAMMING COURSES ARE
 OFFERED AS ELECTIVES TO ALL STUDENTS WHO
 HAVE SATISFIED COURSE PREREQUISITES.**

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AE7B;:@7U#GDB:K 662&,\$7(= 52)(6625=\$1' = +,)= ,%5\$5,\$1

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3KU 7D@EF7:@662&,\$7(= 52)(6625

-7@6KU :G U 66,67\$17= 52)(6625

#3D=U 3FA@ 66,67\$17= 52)(6625

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#;5:37>U(AEEA@ U52)(6625

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2014-2015

faculty and
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staff

Evrick Brown, *i* *H*
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 Pearine Butler, *i* *Hi* *i* *i*
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 Maryann Conlon, *Hi* *i* *i* *H*
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H H *i* *i* *i* *i*
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i *i* *i* *i* *i* *i*
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iii *i* *i* *i* *i* *i*
William Correnti, *i* *i* *i* *i* *i* *i* *i* *i*

Mickie Driscoll, Hi i i
H. i

Damali Dublin Durrant, Hi i i
i

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i

Thomas Eaton, Hi i
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Kevicha Echols, Hi i i
i

Abraham Edelheit, i Hi i
i

MaryAnn Edelman, i i
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Shranda Edmeade, Hi i i
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Hanane Elabid, Hi i i i
i

Hattie Elmore, i Hi i i
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Elroy Esdaille, i
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Maureen Fadem, i i
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Barbara Fairweather, Hi i i
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M. Reza Fakhari, i i Hi i
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Rosalie Fayad, Hi i i
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Joseph Felser, i i Hi i
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Dorothy Ferrante, i i i
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 Gail Glass-Malley, Hi i i
 Laura Glazier-Smith, Hi i i
 David Goldberg, i i i H i i
 Michael Goldstein, Hi i i
 David Gómez, i i i H i
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 Karlene Gooding, i i i
 Rosemarie Goodridge, i Hi i
 Darya Gorinshteyn, Hi i i
 Elba Grau, Hi i i
 Janine Graziano-King, i H i i

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Ivan Shun Ho,

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Kieren Torres Howard,

Vonetta Hoyte,

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Asif Hussain,

Rachel Ihara,

Anthony Imperato,

Gavin Ireland,

Sinu Jacob,

Z.M.G. Sarwar Jahangir,

Steven Janowsky,

Maya Jimenez,

Keisha Johnson,

Lindsey Johnson,

Tanya Johnson,

Kwatei Jones-Quartey,

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Monica Joseph,

Phillip Joseph,

Yogesh Joshi,

Gabrielle Kahn,

Laura Kates, Hi
Brian Katz, Hi
Christopher Keane, Hi
Charles Kee, Hi
Renata Kheyson, Hi
Beth King, Hi
Reabeka King, Hi
Miriam Kittrell, Hi
Michael Klein, Hi
Kevin Kolkmeier, Hi
Enrika Kohavi, Hi
Miriam Korfine, Hi
Frances Kraljic-Curran, Hi
Carol Kravetz, Hi
Conrad Kreuter, Hi
Ayalur Krishnan, Hi
Susan Lachman, Hi
Suzanne LaFont, Hi

Paule LaFortune, Hi
Mohamed Lakrim, Hi
Daniel La Noue, Hi
Gail Larkin, Hi
Marjorie LaRoche, Hi
Melissa Larrea, Hi
Xiaoting Lau, Hi
Natasha Lauriston, Hi
Thomas Lavazzi, Hi
John Lawrence, Hi
David Lawson, Hi
Jeffrey Lax, Hi
Frantz A. Leconte, Hi
Jason Leggett, Hi
Jose Lenis, Hi
Lauren Levesque, Hi
Alissa Levine, Hi

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- Ronna Levy, *i*
- Sun Chenug Feon Li, *Hi*
- Eileen Lichtenthal,
- Juanita Linares, *Hi*
- Philip Listowsky,
- Martin Litwack,
- Cindy Liu, *Hi*
- Shing Liu, *Hi*
- Manel Lledos,
- Patrick M. Lloyd,
- Eduardo Lolo,
- Heidi M. Lopez, *Hi*
- Irene Lopez, *i* *Hi*
- John Lopez,
- Gardy Louis, *Hi*
- Sandra Lujan, *Hi*
- Natasha Lvovich,

- Marjorie McDonough,   
- Marie McGovern,      
- Alade McKen, *Hi*     
- Ryan McKinney,     
- Lavita McMath Turner, *Hi*    
- Detrice McPhatter, *Hi*     
- Gene McQuillan,   

Daniel Panzer,
Annice Paolino,
Matthew Papier, Hi
Hope A. Parisi,
Stuart Parker,
Navneet Parmar,
Maria Patestas, Hi
Hallory Paul, Hi
Susan Paul, Hi
Katia Perea,
Frank Percaccio,
Robert Pero, Hi
Mariya Petrova,
Katheryne Petryssyn, Hi
Linda C. Pierce, Hi
Caterina Pierre,
Roberta E. Pike,
Tricia Plummer, Hi

Peter Pobat,
Kristin P. Polizzotto,
Gloria Pollack,
Reina Prestia, Hi
Sharon Prince,
Jennifer Pringle, Hi
Anna Procyk, Hi
Ella Puccio, Hi
Sandra Ramos, Hi
Karolina Rasa, Hi
Varattur Reddy,
Donna Regina, Hi
Ricardo Repetti, Hi
Paul Ricciardi, Hi

Florence Schneider, i i i i
i i i i H, i i

Joanna Stein,
 Tziporah Stern,
 Benjamin Stewart, Hi
 Robert Stiglitz, Hi
 Enid Stubin,
 Rachel Sturm-Beiss,
 Stuart Suss,
 Christie Sutherland, Hi
 Tasheka Sutton-Young, Hi
 Kirstin Swanson, Hi
 Charles Swift,
 Petra Symister,
 Samuel A. Taitt,
 Farshad Tamari,
 Damani Thomas, Hi
 Silvea Thomas, Hi
 Antonio Thompson, Hi

Keisha Thompson,
 Dorina Tila,
 Elizabeth Tompkins,
 Julie Tarrant,
 Silvia Torres,
 Angela Toscano,
 Max Tran,
 Christen Trapani, Hi
 Grace Trotman, Hi
 Edgar Troudt,
 David Troy,
 Alicia Trust,
 Corey Turner,
 Chizoba Udeorji,
 Tisha Ulmer,
 Janet Unegbu, Hi
 Margaret Vanderbeek, Hi

Tiffany Vann Sprecher, Hi
Jason VanOra, H
Andrea Velasco, Hi
Joseph Verdino, H
Concetta Vinciguerra-Orsini,
Morton Wagman, Hi
Tony Walker, Hi
Glenda Wallace, Hi
Barbara R. Walters, H
Washburn,
Juann Watson, H
Kathryn Wayler, Hi
Bridget Weeks, H
Sheri Weinstein,
Michael K. Weisberg,
Michael Weisenfeld, Hi

Barbara Weiserbs, H
Jane Weiss,
S. Tara Weiss,
Dominic Wetzler, H
Marvin Williams,
Sheryl Williams,
Juliane Willis, Hi
Karimah Ellis Wilson, Hi
Paul Winnick, Hi
William Winter, H
Donovan Withers, H
Elaine Wong, Hi
Eben Wood,
Stella Woodroffe, Hi
Jennifer Wuotinen, Hi
Mei Xing,
Hanying Xu,
Hong Tu Yan, H

William Burger,

Jocelyn A. Camp,

Betty Caroli,

Catherine Carr,

Harvey F. Carroll,

Domenic Caruso,

Isabella Caruso,

Geraldine Chapey,

Norah Chase,

Henry Chupack,

Anthony Colarossi,

Diego L. Colon,

Edwin Cooperman,

Eleanor Cory,

Mary V. Crowley,

Martin E. Danzig,

Rosalind M. Depas,

Alline C. DeVore,

Voorhees Dunn,

John Dydo,

Ralph Edwards,

Harold S. Engelsohn,

Jeptha A. Evans,

Joseph Feit,

Ellen Fine,

Ronald Forman,

David Frankel,

Clara J. Freeman,

Ilsa M. Glazer, *i i i i*
H i

Connie Goldfarb, *i i i H*

Rachelle Goldsmith, *H i i*

Gene Goldstein, *i*

Miles Goodman, *i i i i*

Richard M. Graf, *i i H*

Richard Graziano, *H i i*

Leonard Green, *i i i H i*

Philip J. Greenberg, *i i i*

Louise Grinstein, *i i i*

Joseph Guardino, *i i*

Helen Kirshblum, *i i i i i*

Oliver Klapper, *i i i i H*

Isabelle A. Krey, *i i i i i*

Yvonne G. Laurenty, *i i i i i*

Melvin L. Levine, *i i i i i*

Milton A. Levy, *i i i i i*

H. Desmond Lewis, *i i i i i*

Rachel B. Lieff, *i i i i i*

Vincent Liguori,

Philip Stander, H.

Richard Staum, i

Barbara Steffen, H i i

John O. H. Stigall, i

C. Frederick Stoerker, Hi i

Alfredo Torres, i H i

Angelo Tripicchio, i

August Tuosto, i

Vimla P. Vadhan, i H.

Richard Vagge, i

Robert R. Viscount, i

Delores Washington, H. i iii

Edward Wiener, i

Walter Weintraub, i

Judith Wilde, i

Eric Willner, i

Anne Winchell, i

Jack S. Wolkenfeld, i

Harvey A. Yablonsky, i i

Marvin Yanofsky, i

Merrill Youkeles, i H.

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" U%<1I8?EC5		
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*#.U ,B9D9>7U 5<<?GC		\$351>F95GU'??=
		, ' "U'149?U(D1D9?>
" 19><-7E%1<@5/1=		
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