



$\leftarrow \text{COS}$

			<u>COS</u>	<u>SIN</u>
L	34-10N	34.17	.825	.565
D	23-11S	23.18	.92	.395
t	29-58	30	.866	.5
$H_c = 25-58$				
$X \text{ COS} = .657$				
$- X \text{ SIN} = .231$				
$\text{SIN } H_c = .426$				
$H_c = 25^\circ$				
OFF 58 NM				

			<u>COS</u>	<u>SIN</u>
L	42-10.5S	42.18	.74	.675
D	23-06.4S	23.1	.922	.395
t	62-00	62.0	.465	
$H_c = 35-41.5$				
$X \text{ COS} = .317$				
$X \text{ SIN} = .267$				
$\text{SIN } H_c = .584$				
$H_c = 36^\circ$				
OFF 18.5 NM				

SINE + COS CURVES
 FROM KNOWN
 TRIG FUNCTIONS -
 NO TABLES
 SOLUTION
 JUNE 2014

$\frac{1}{8}$ of 60-60-60 Δ
 $\frac{1}{4}$ of 60-60-60 Δ
 Half of 60-60-60 Δ
 60-60-60 Δ

$7.5^\circ = .143$
 $15^\circ = .277$
 0.5
 $45^\circ = .707$
 $.866$

SINE \rightarrow