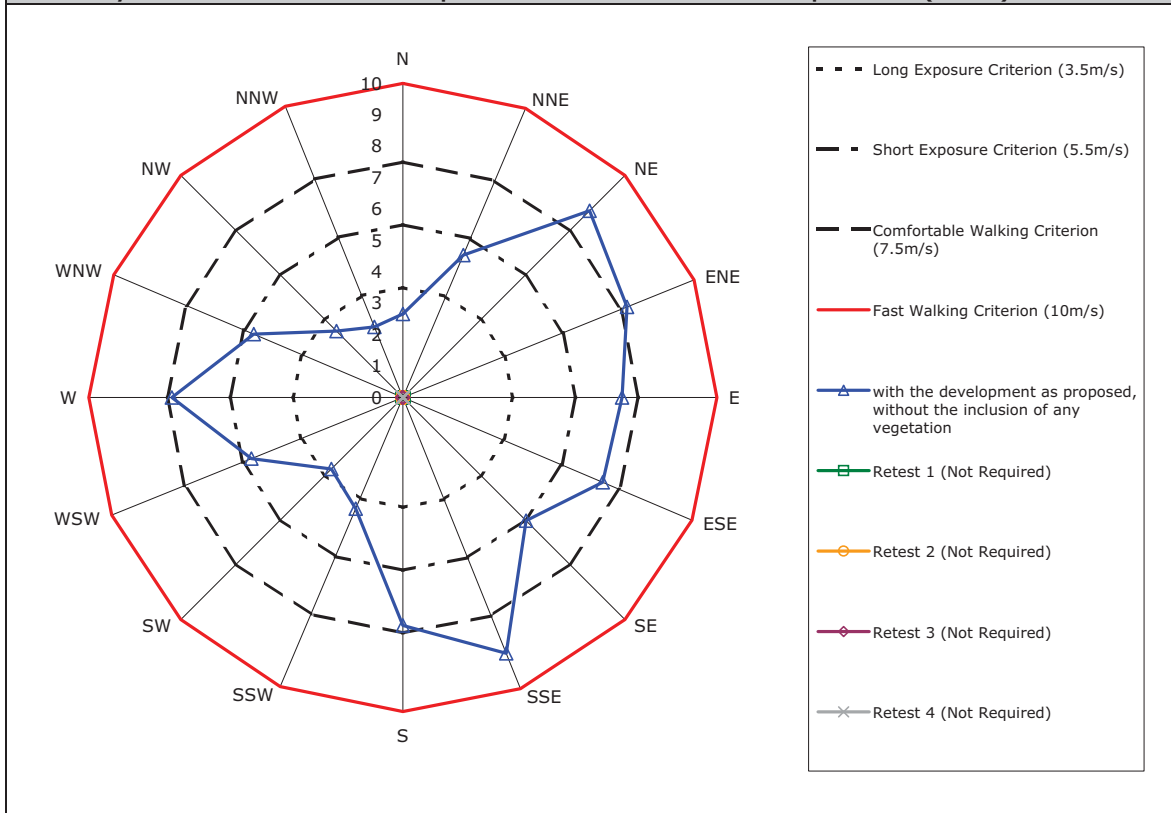
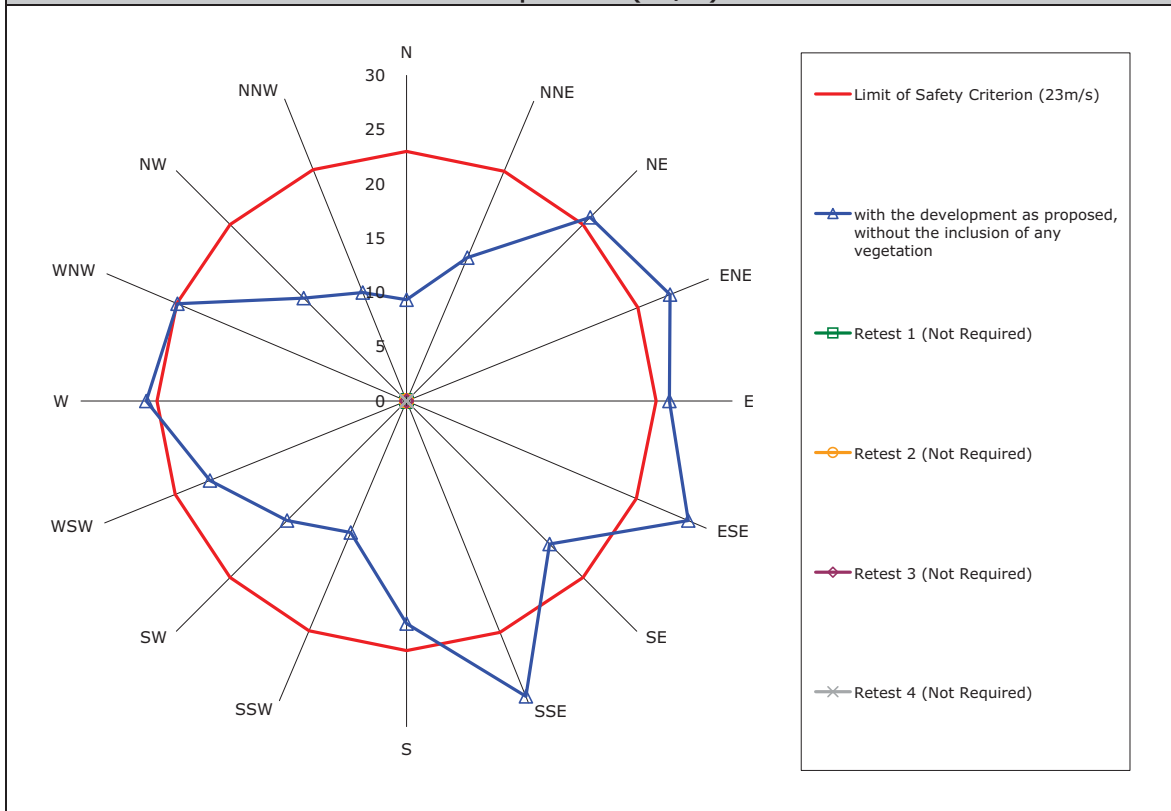


# Measured Wind Speeds at Point 34

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

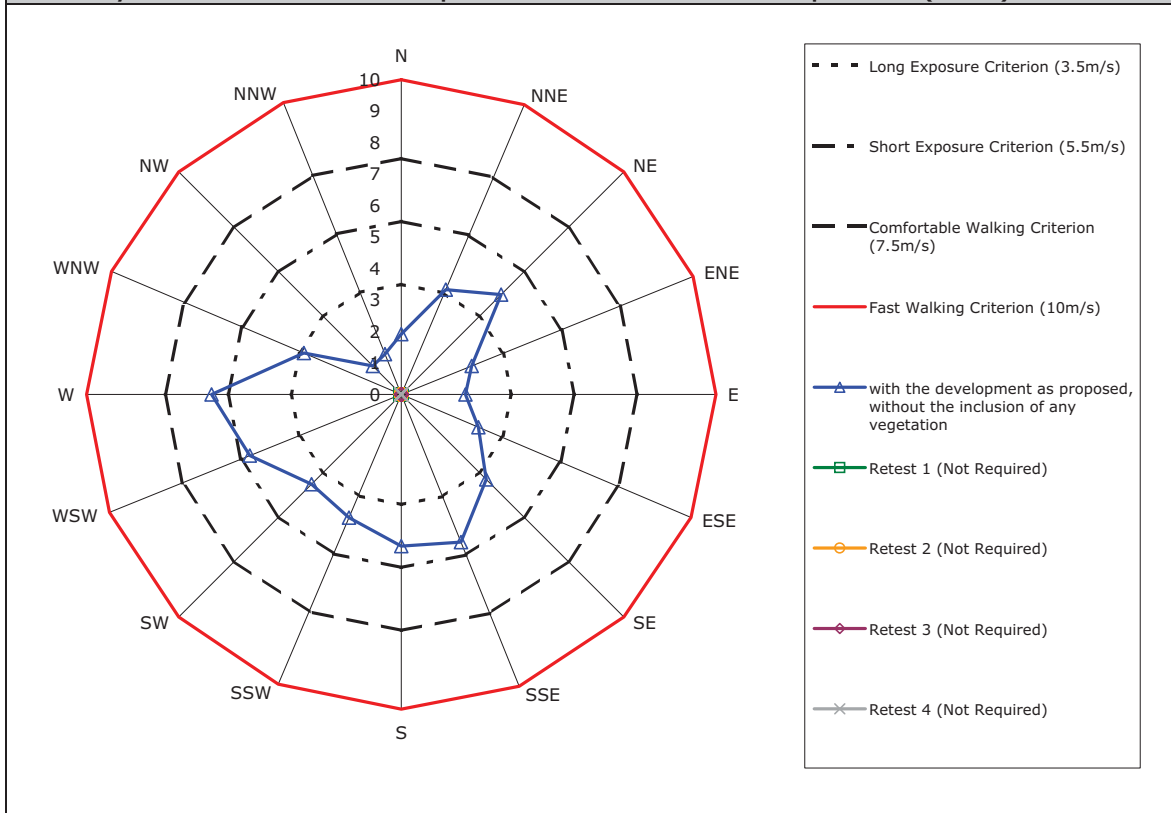


## Annual Maximum Gust Wind Speeds (m/s)

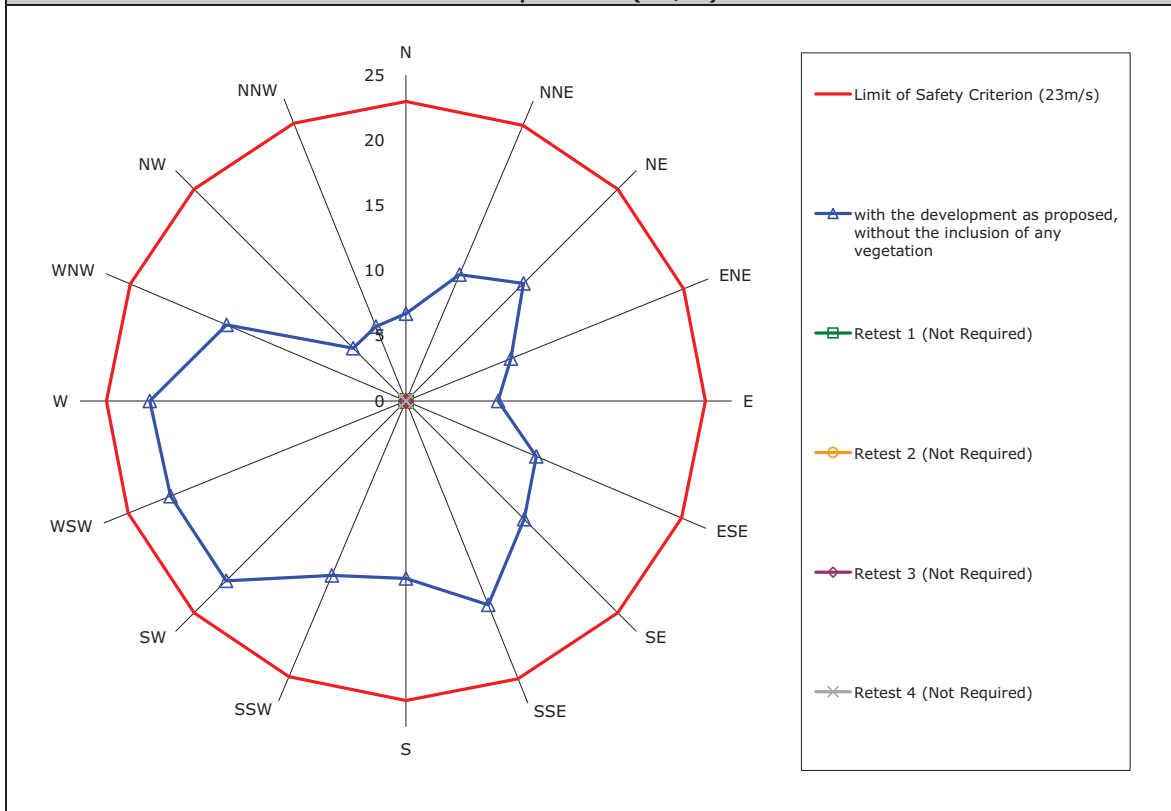


# Measured Wind Speeds at Point 35

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

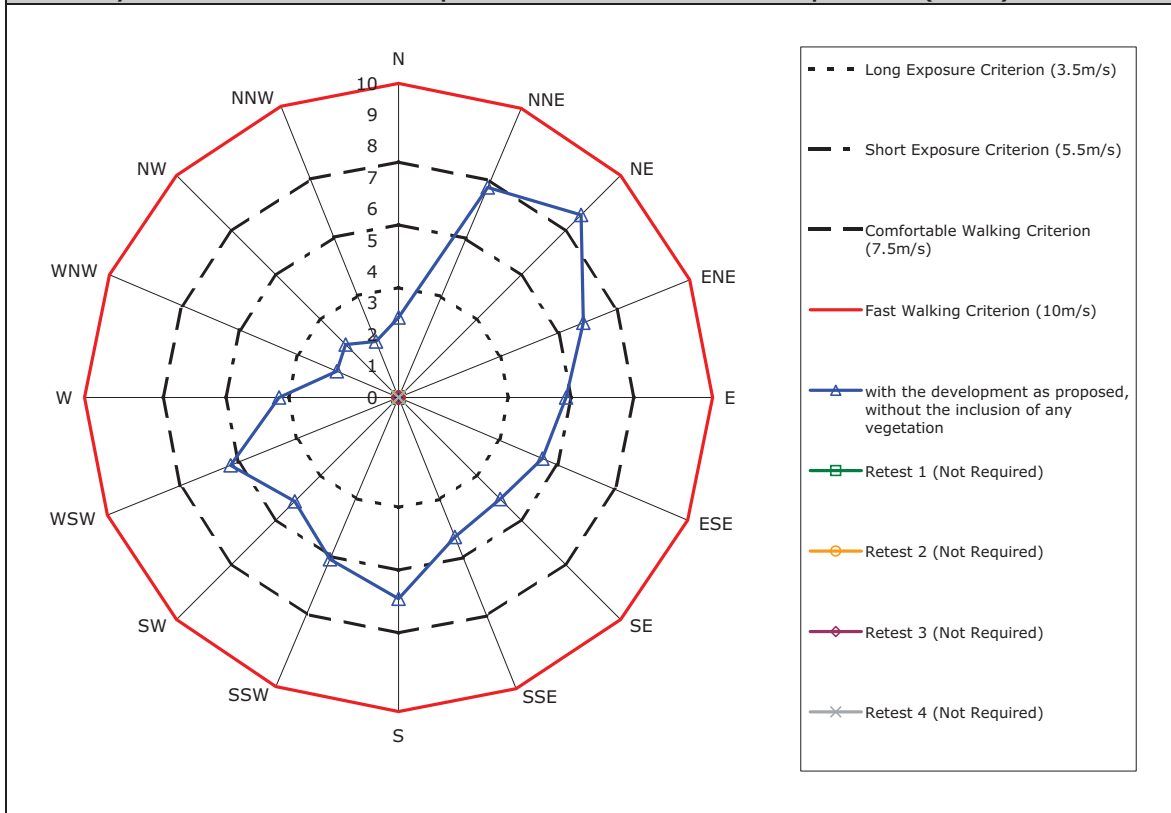


## Annual Maximum Gust Wind Speeds (m/s)

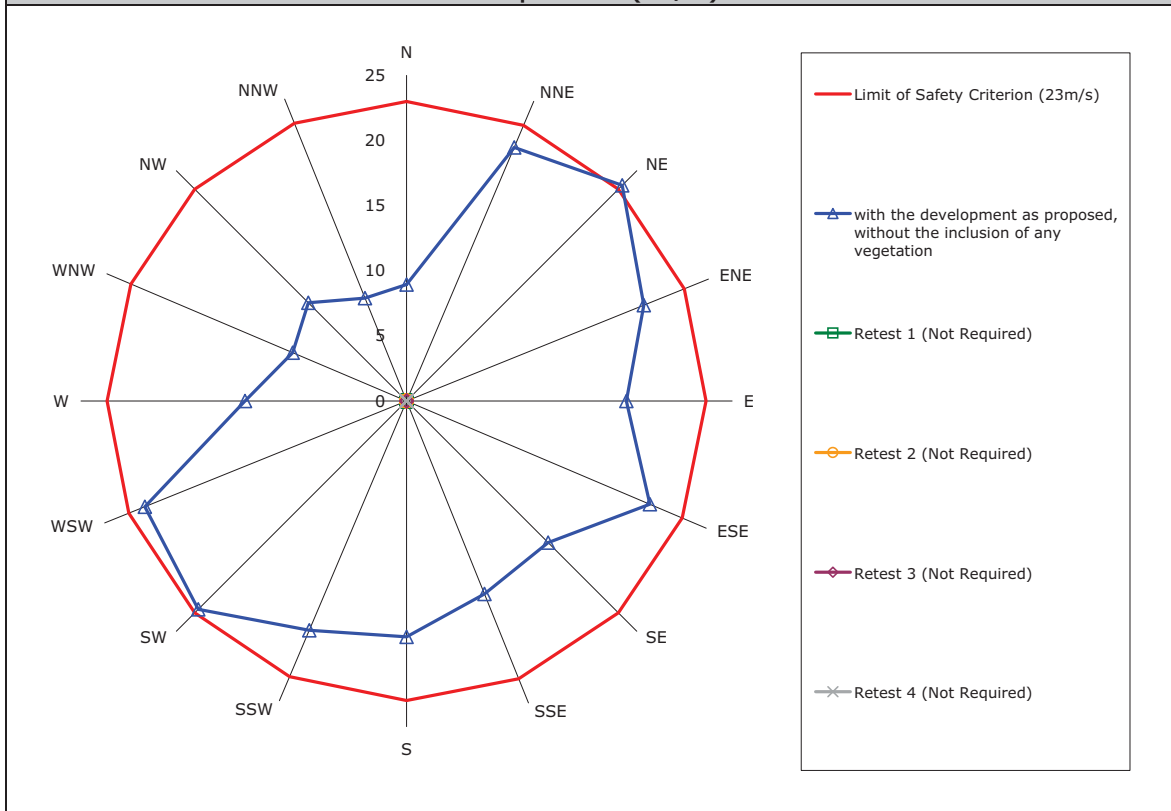


# Measured Wind Speeds at Point 36

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

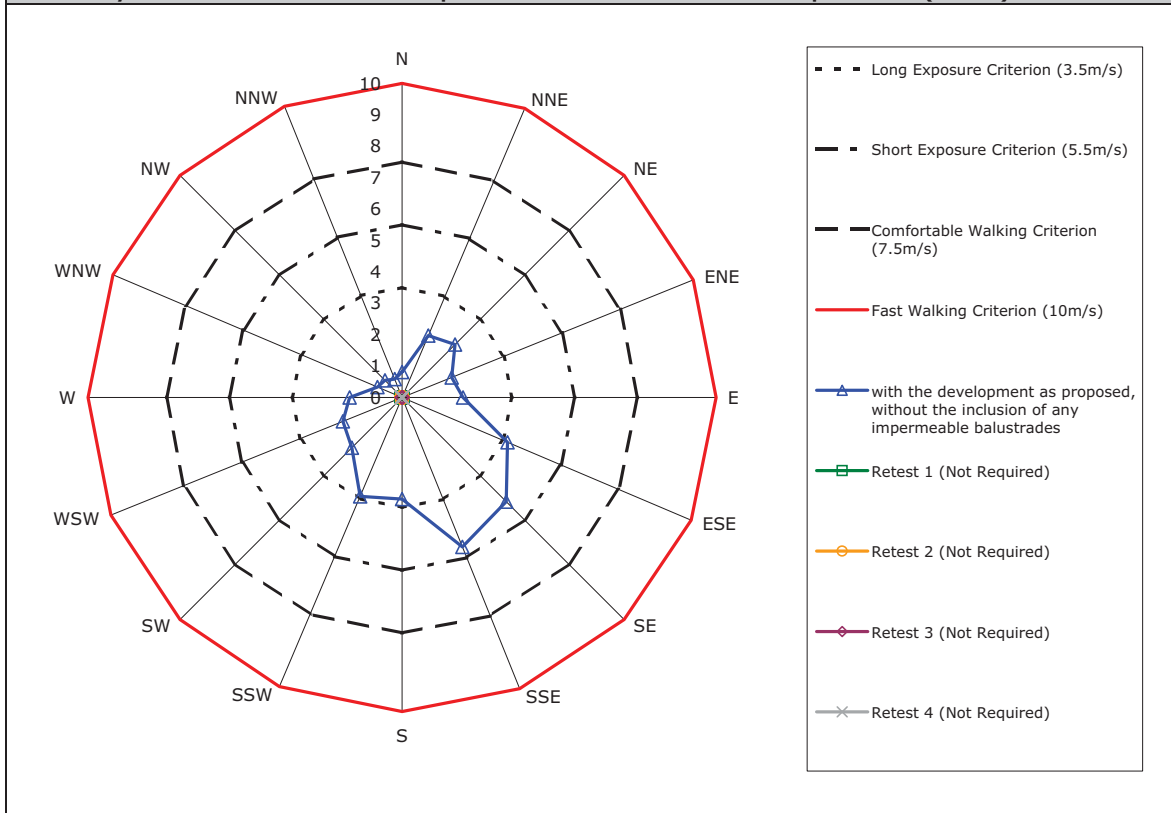


## Annual Maximum Gust Wind Speeds (m/s)

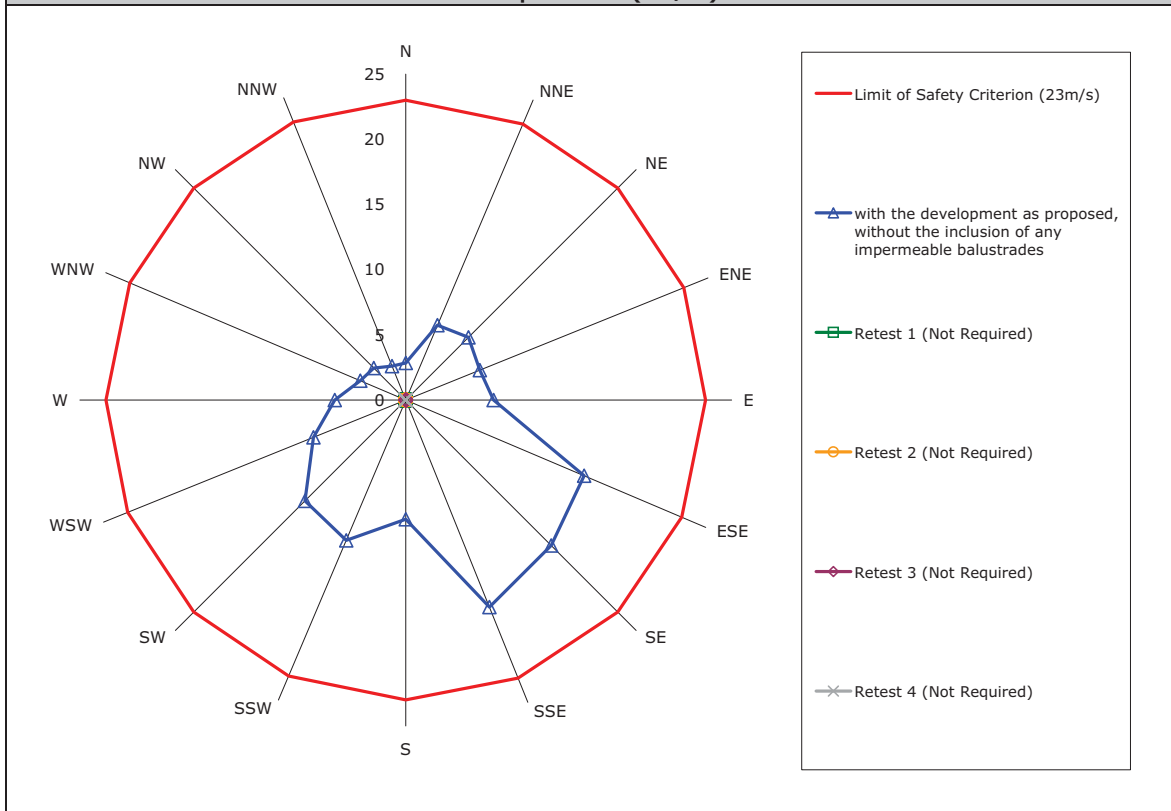


# Measured Wind Speeds at Point 37

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

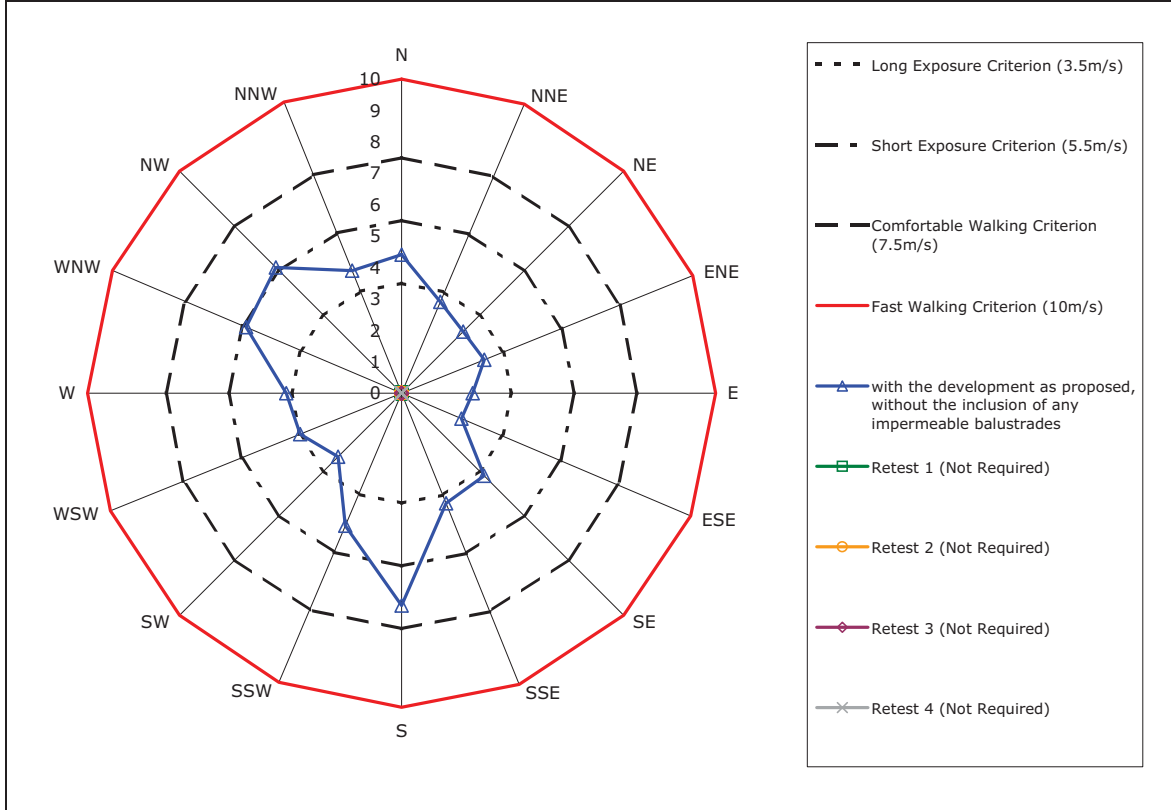


## Annual Maximum Gust Wind Speeds (m/s)

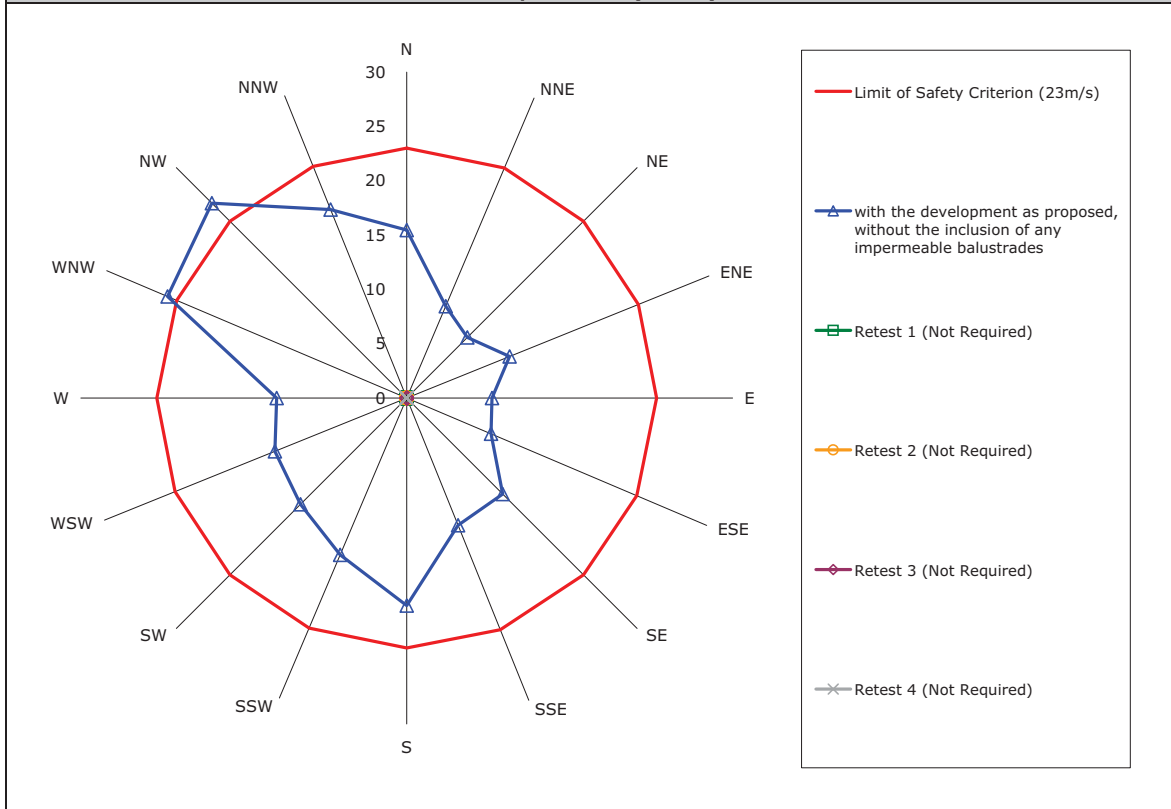


# Measured Wind Speeds at Point 38

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

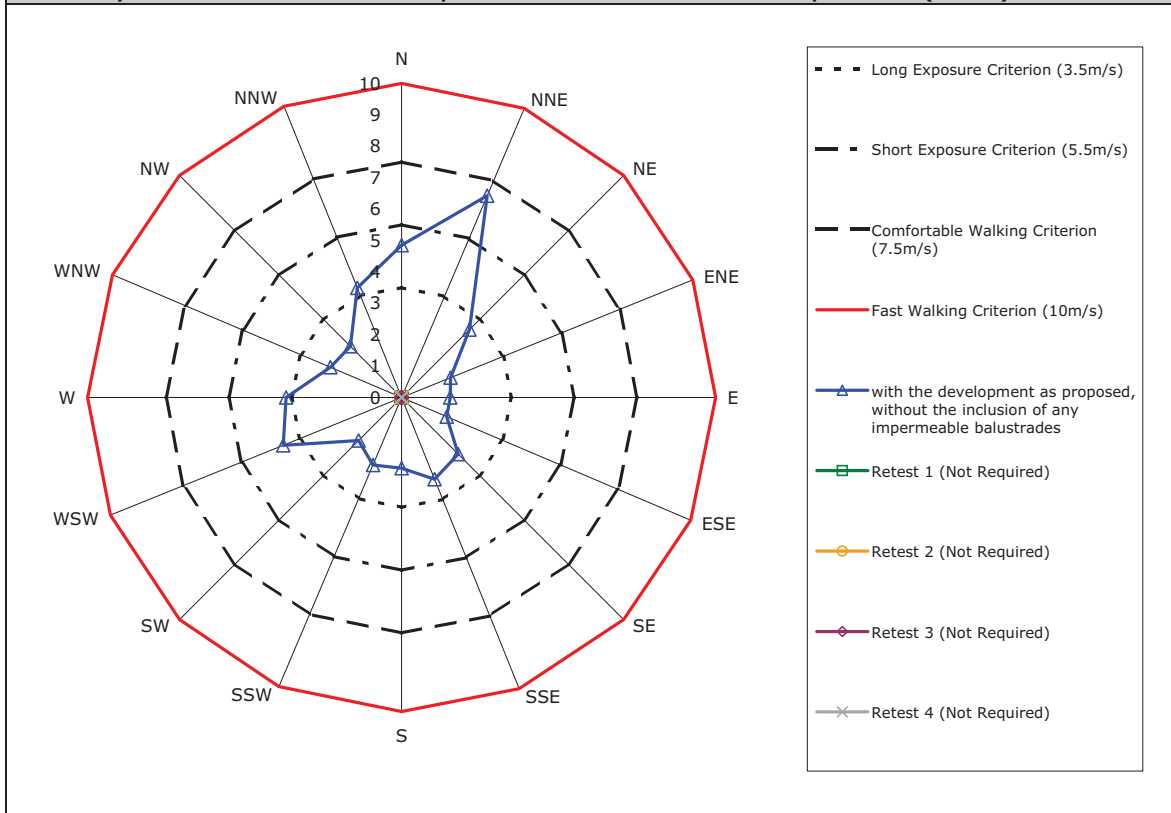


## Annual Maximum Gust Wind Speeds (m/s)

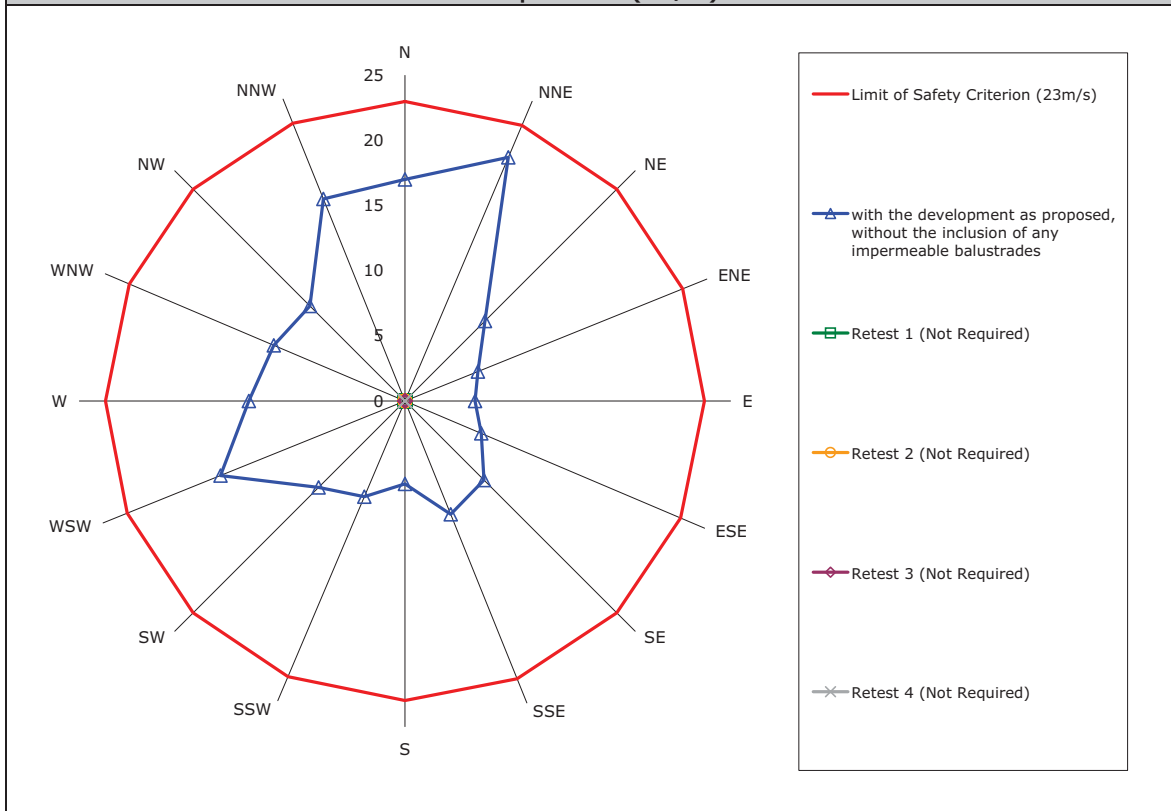


# Measured Wind Speeds at Point 39

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

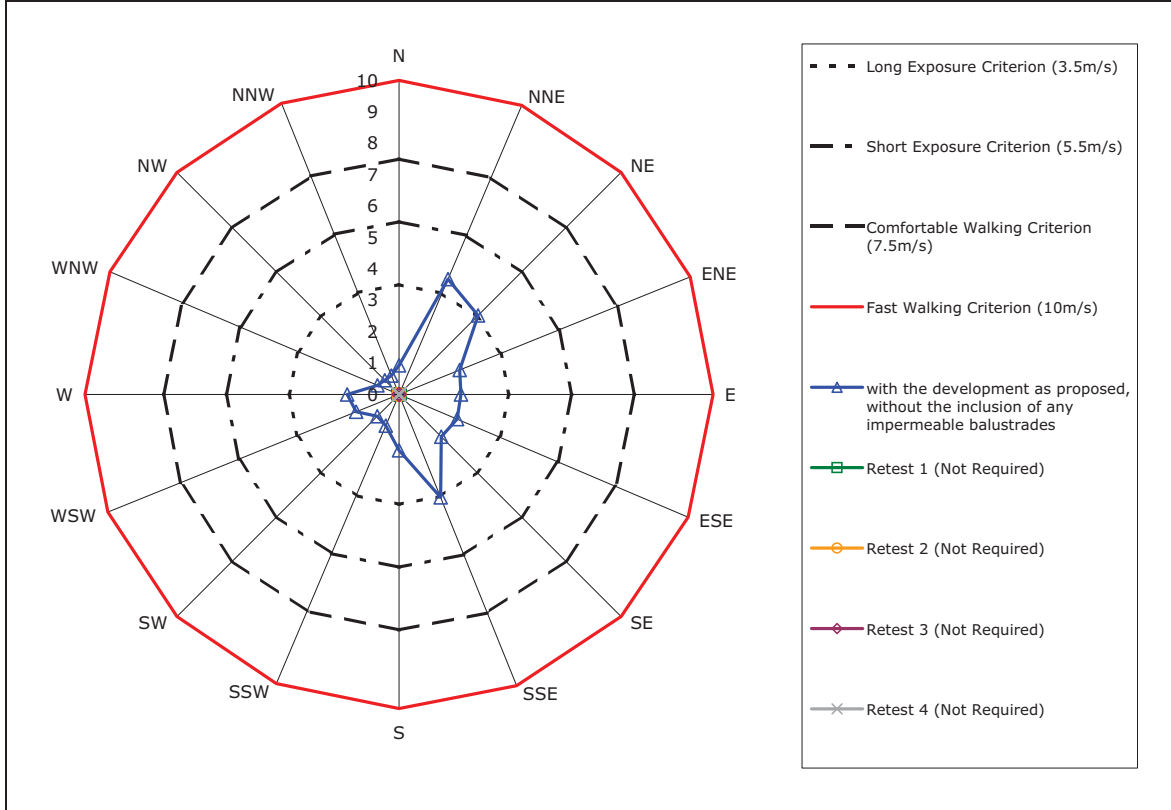


## Annual Maximum Gust Wind Speeds (m/s)

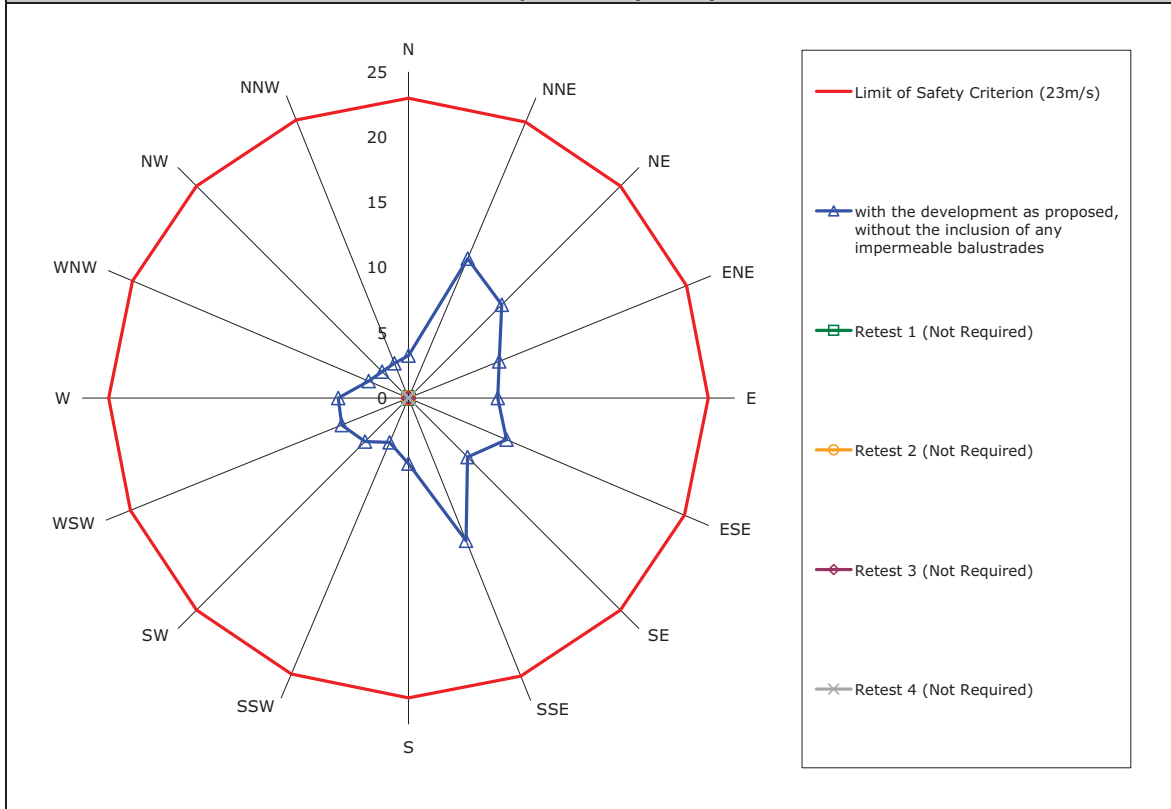


# Measured Wind Speeds at Point 40

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

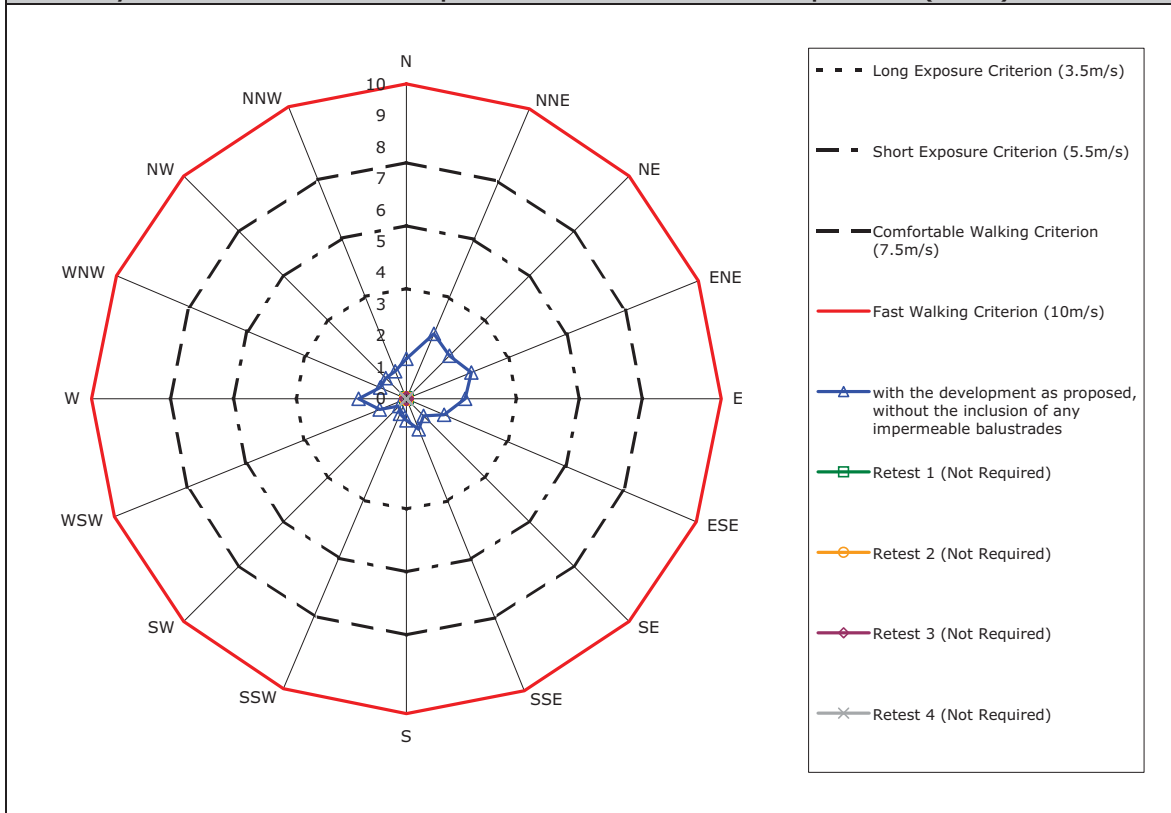


## Annual Maximum Gust Wind Speeds (m/s)

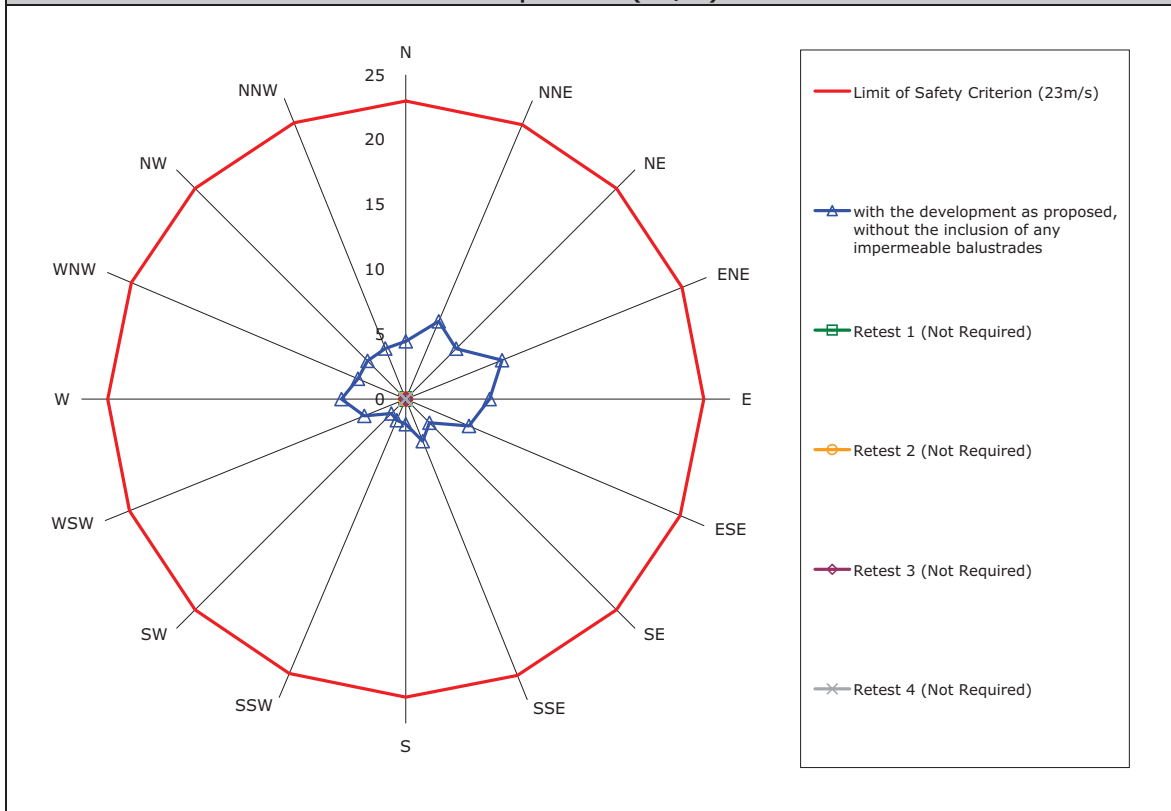


# Measured Wind Speeds at Point 41

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)



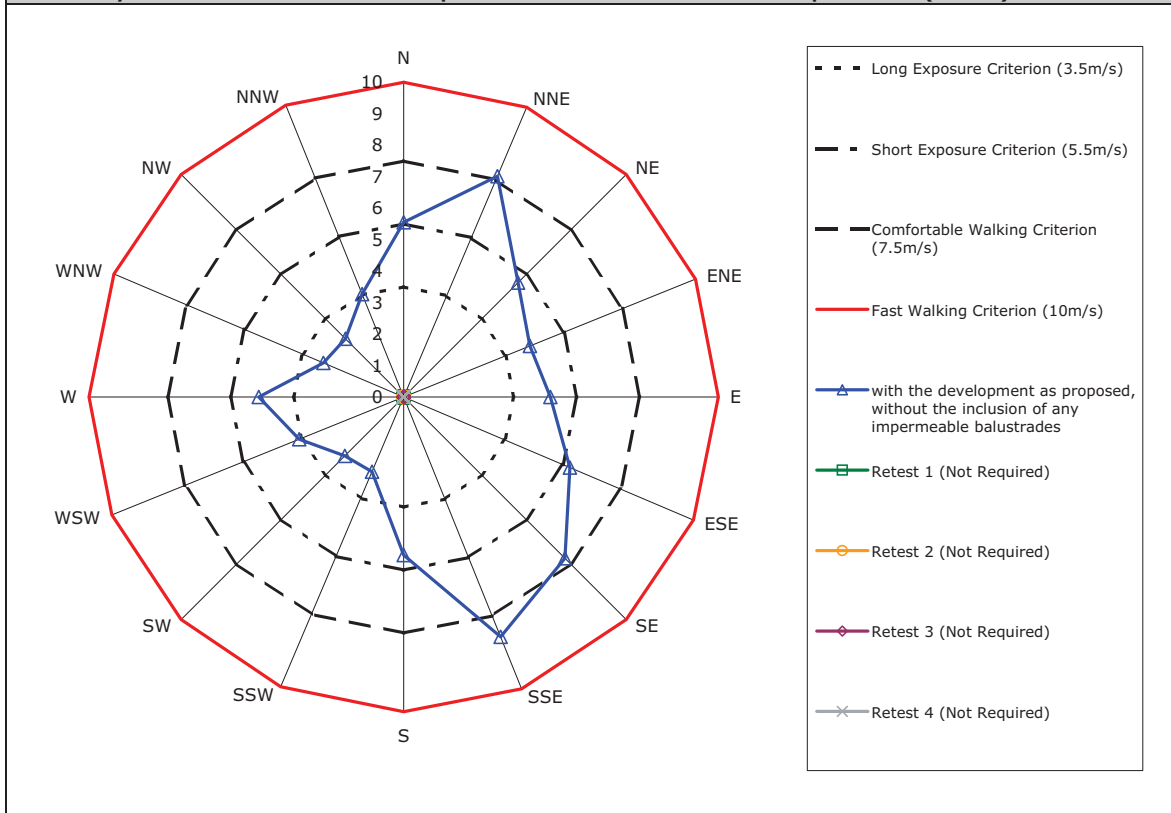
## Annual Maximum Gust Wind Speeds (m/s)



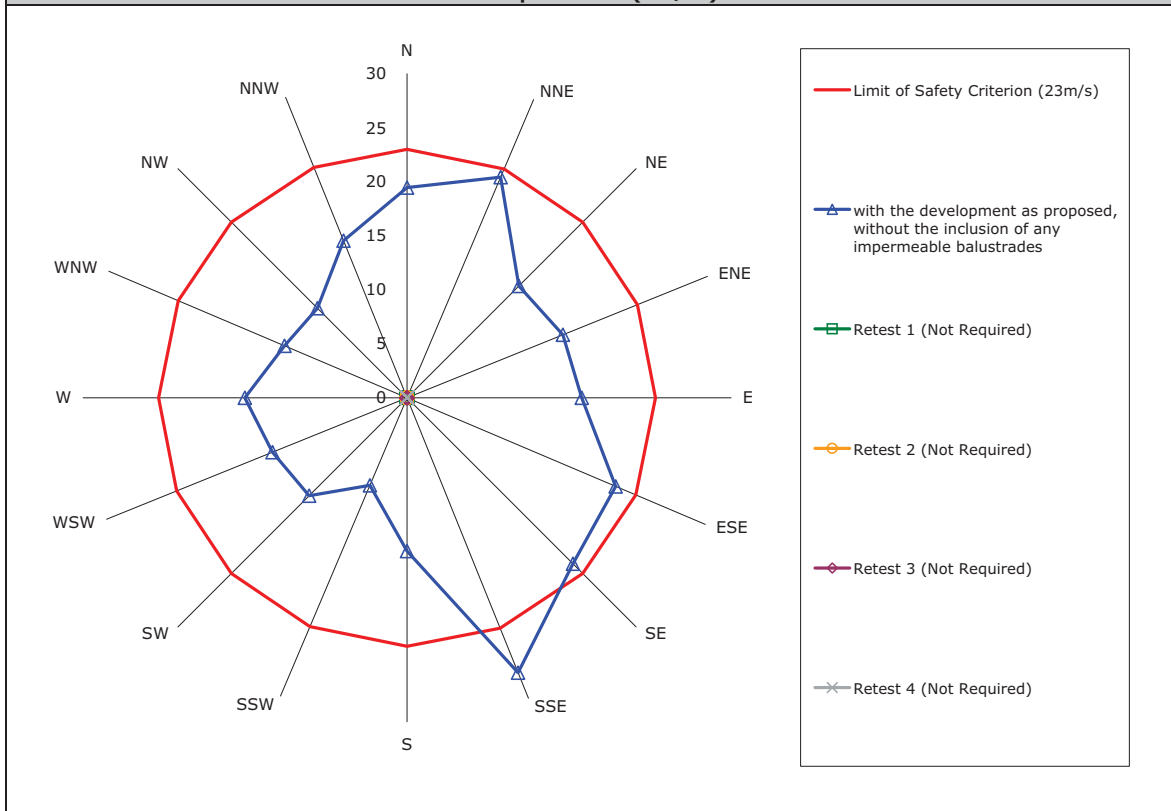


# Measured Wind Speeds at Point 42

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

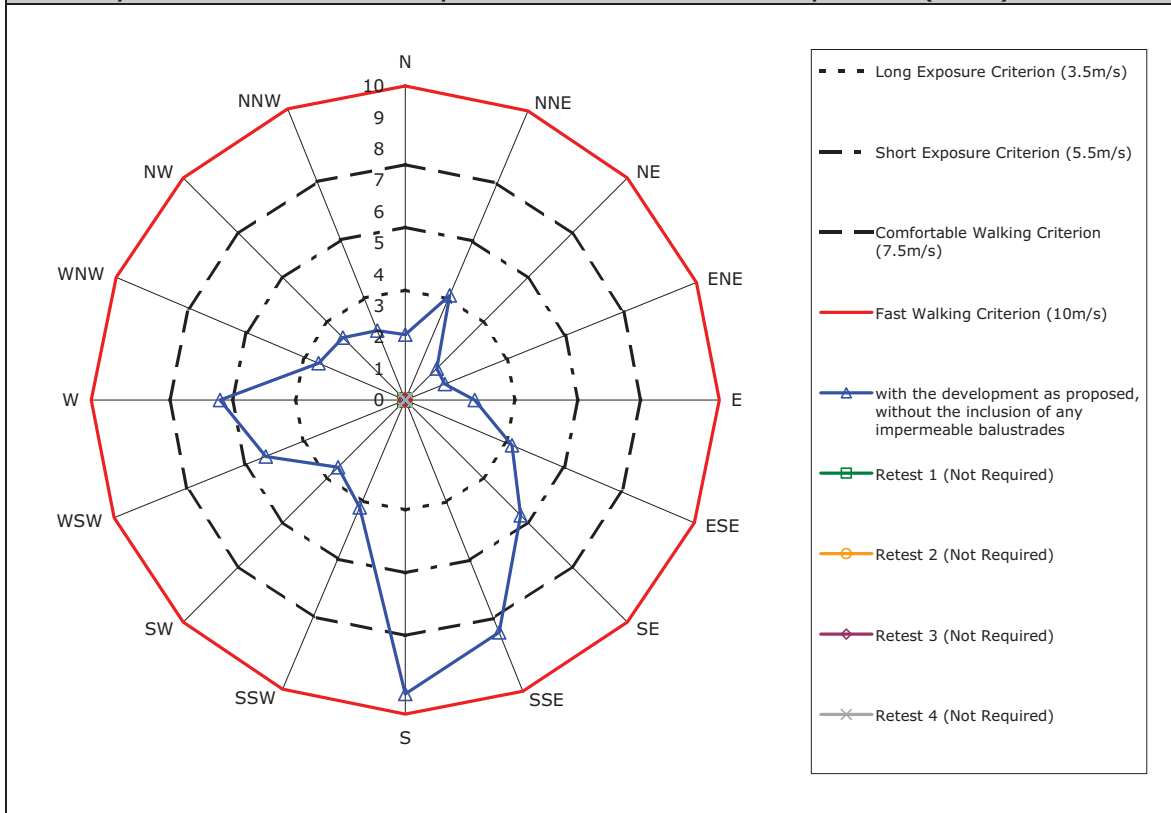


## Annual Maximum Gust Wind Speeds (m/s)

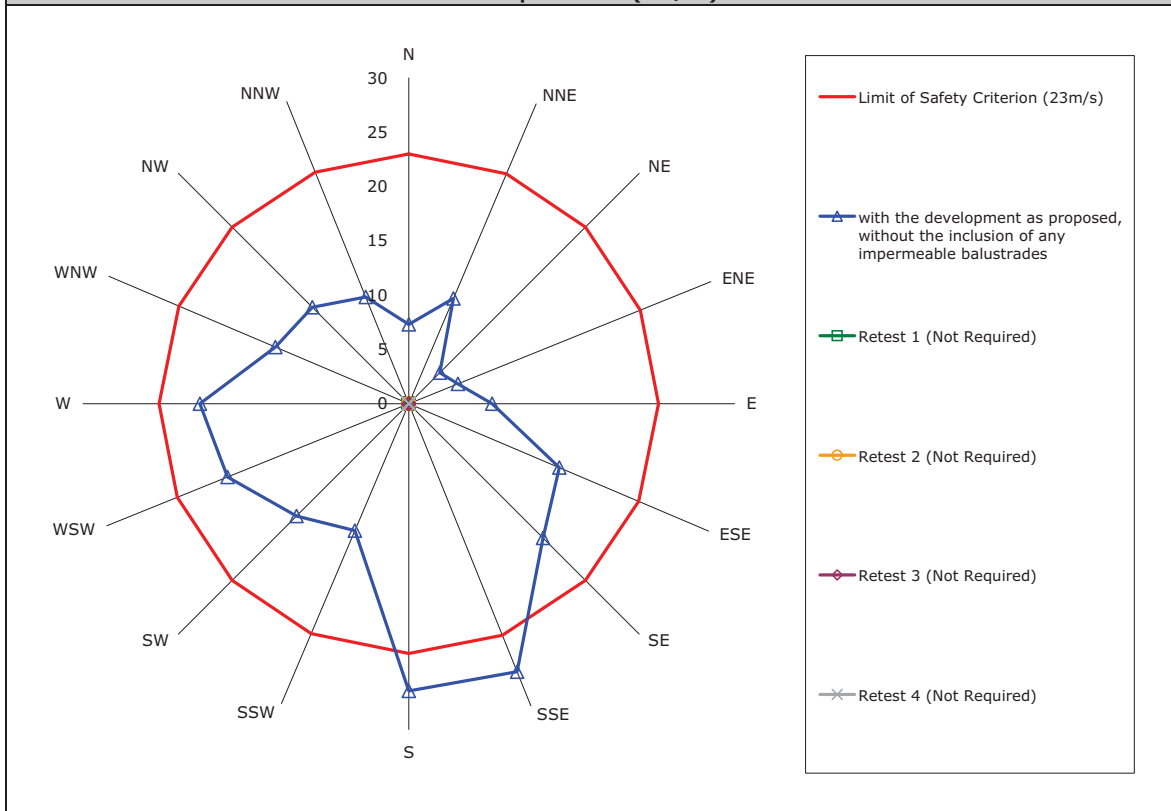


# Measured Wind Speeds at Point 43

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

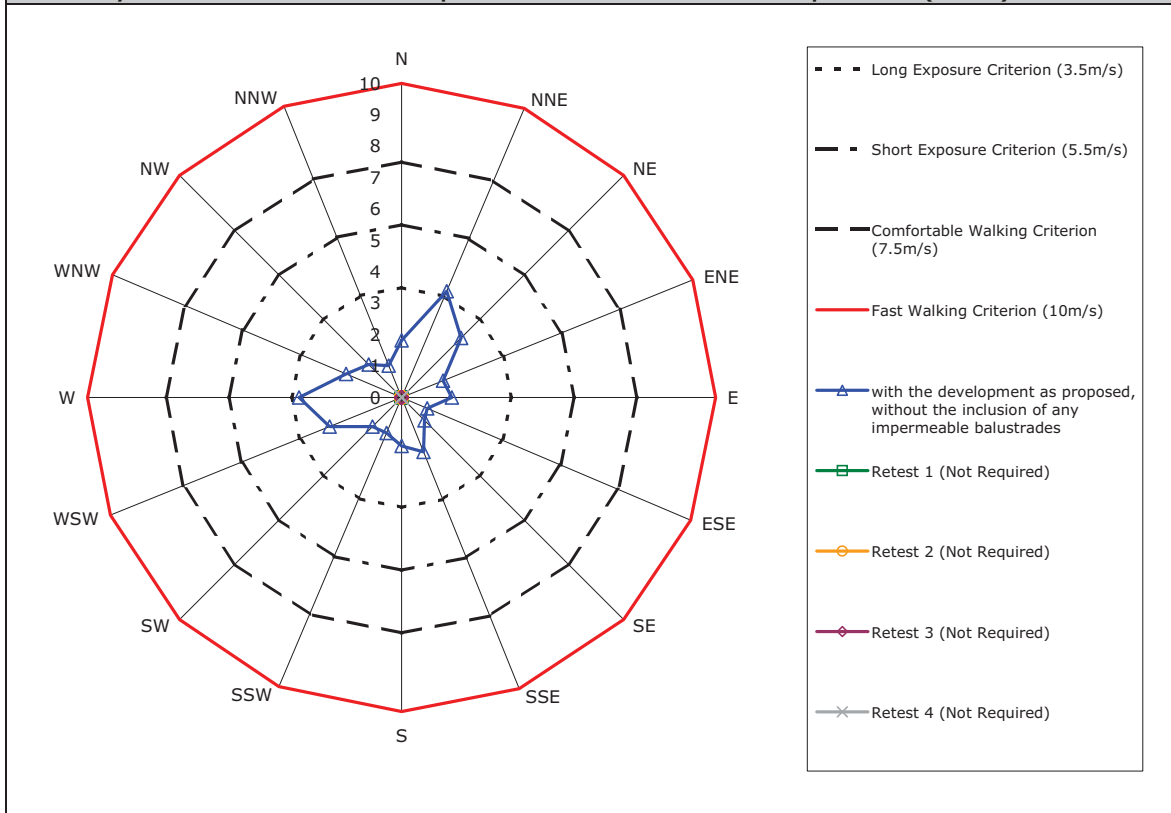


## Annual Maximum Gust Wind Speeds (m/s)

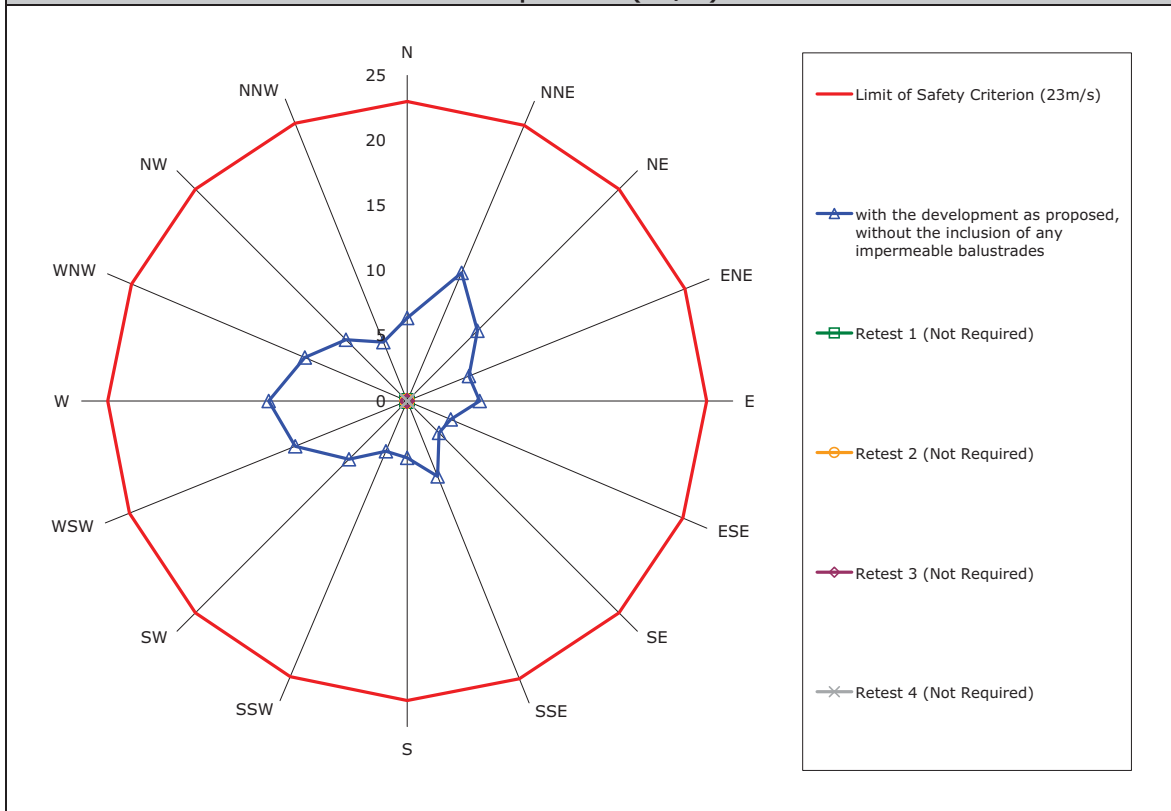


# Measured Wind Speeds at Point 44

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

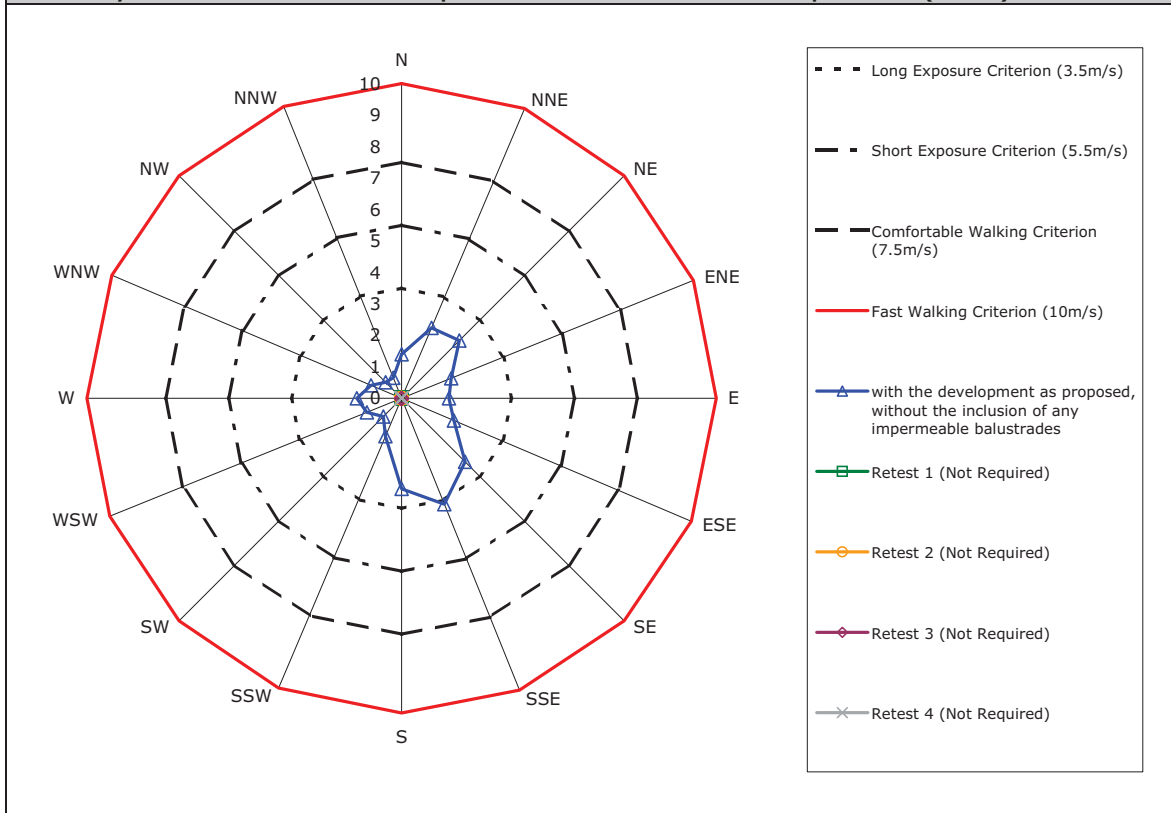


## Annual Maximum Gust Wind Speeds (m/s)

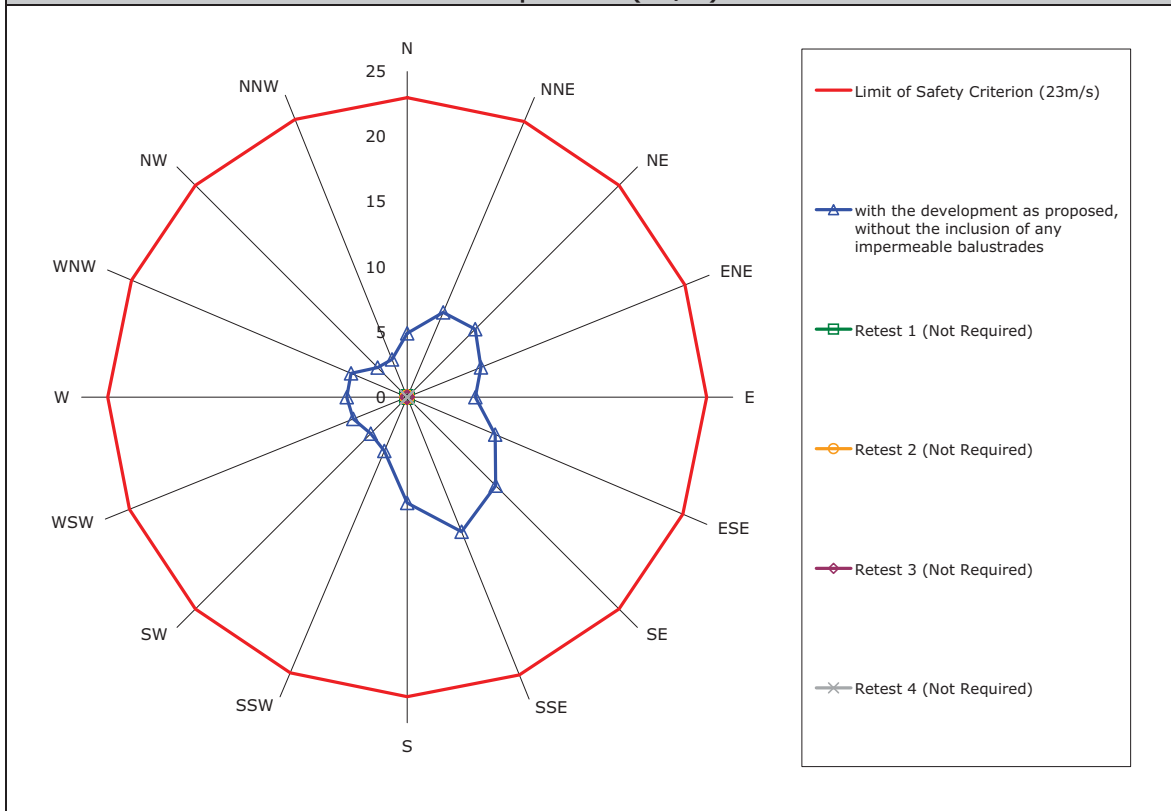


# Measured Wind Speeds at Point 45

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

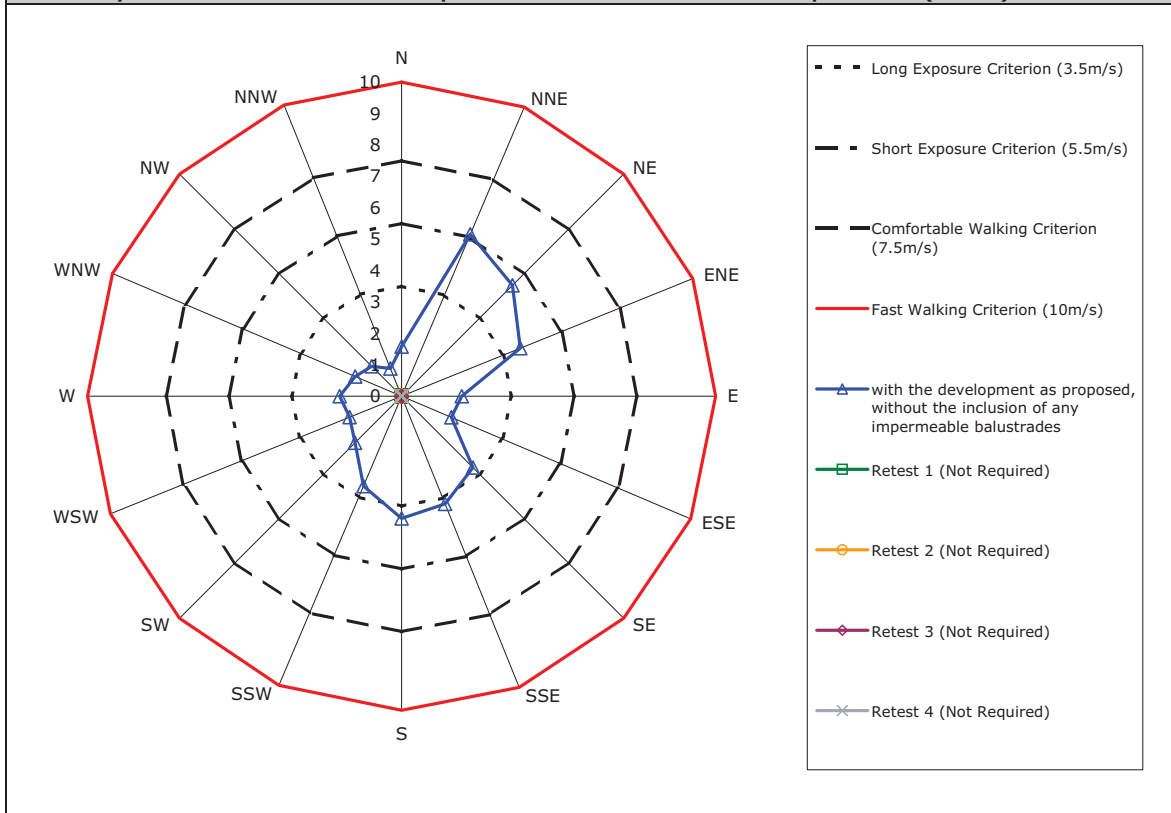


## Annual Maximum Gust Wind Speeds (m/s)

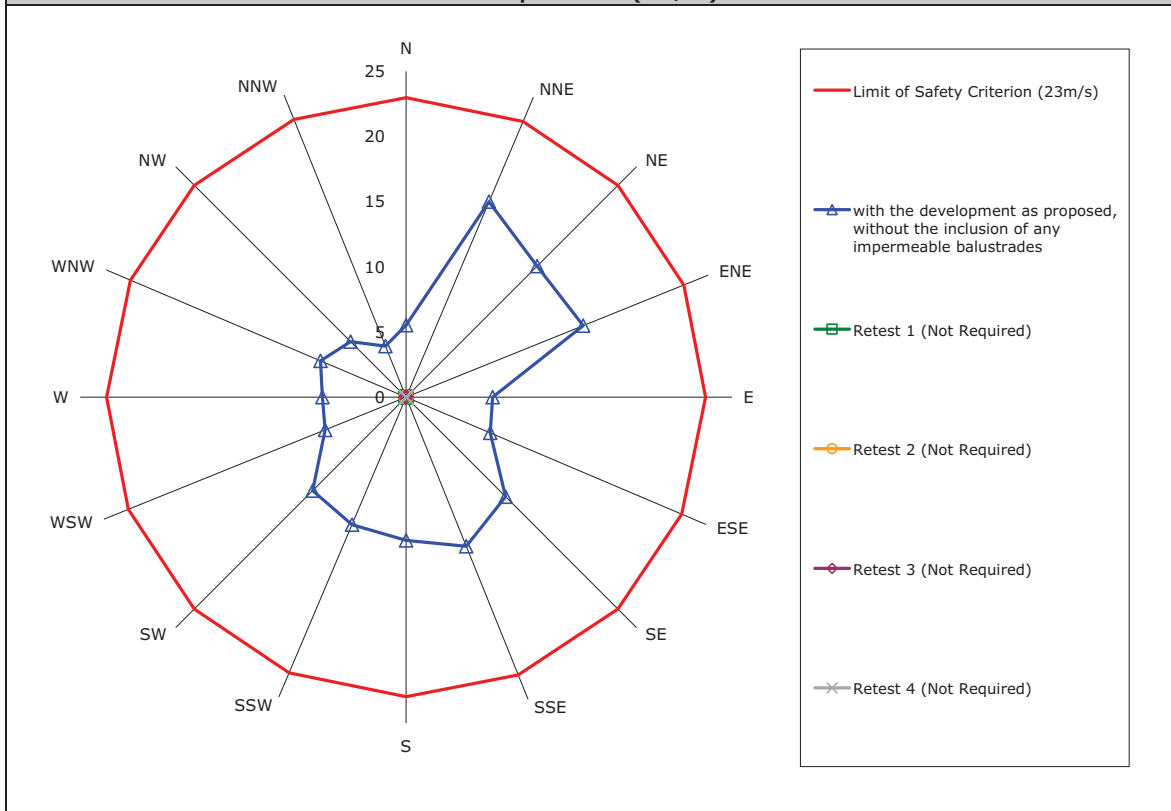


# Measured Wind Speeds at Point 46

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

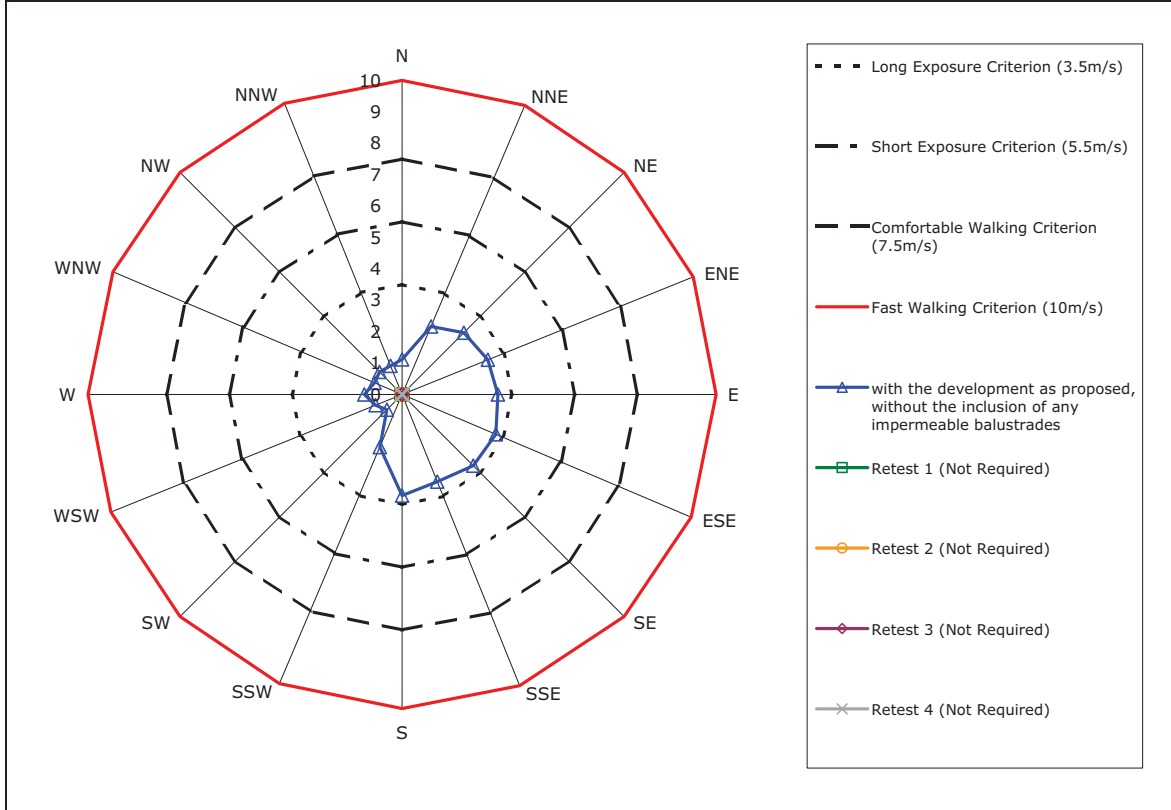


## Annual Maximum Gust Wind Speeds (m/s)

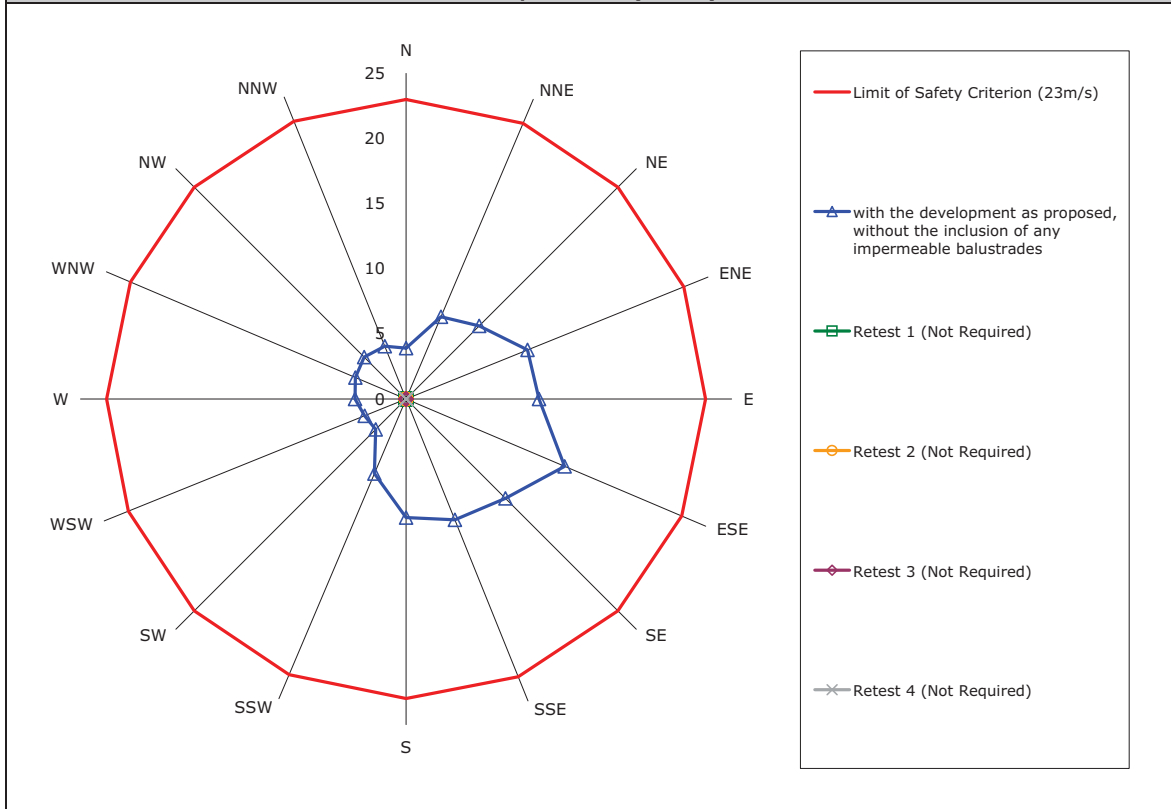


# Measured Wind Speeds at Point 47

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

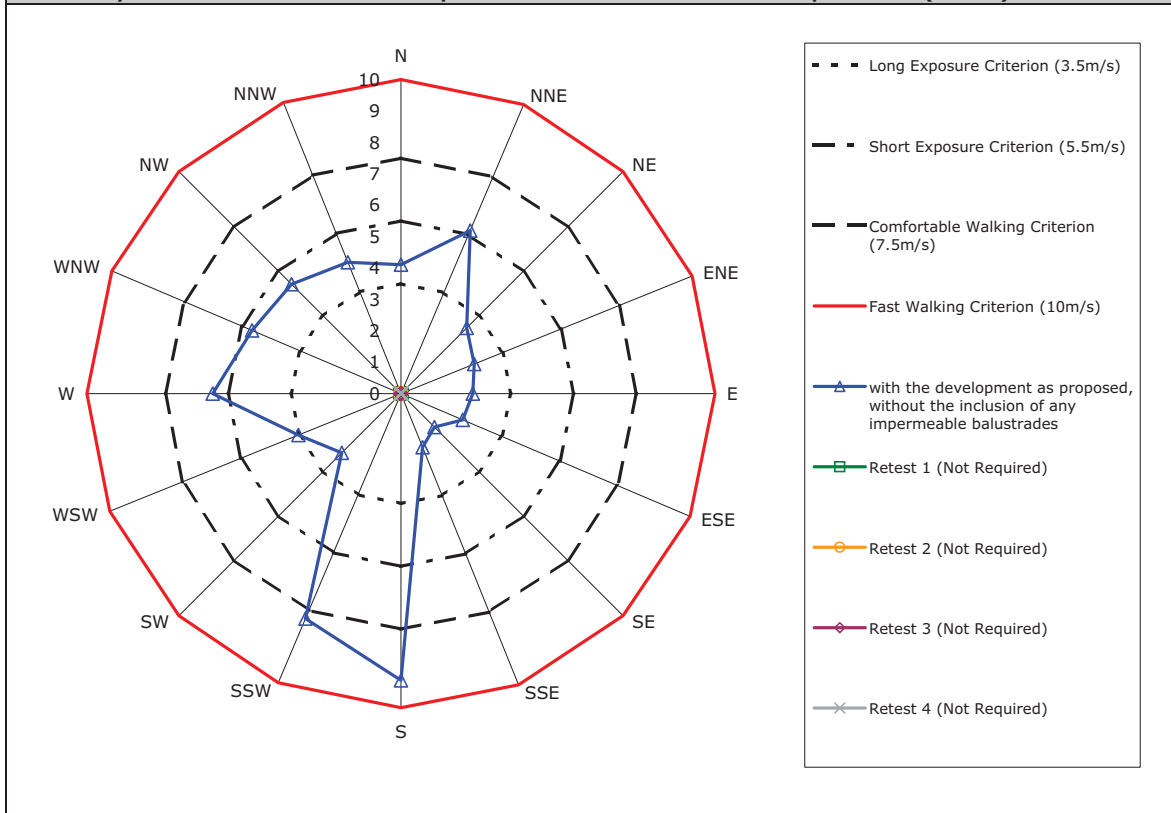


## Annual Maximum Gust Wind Speeds (m/s)

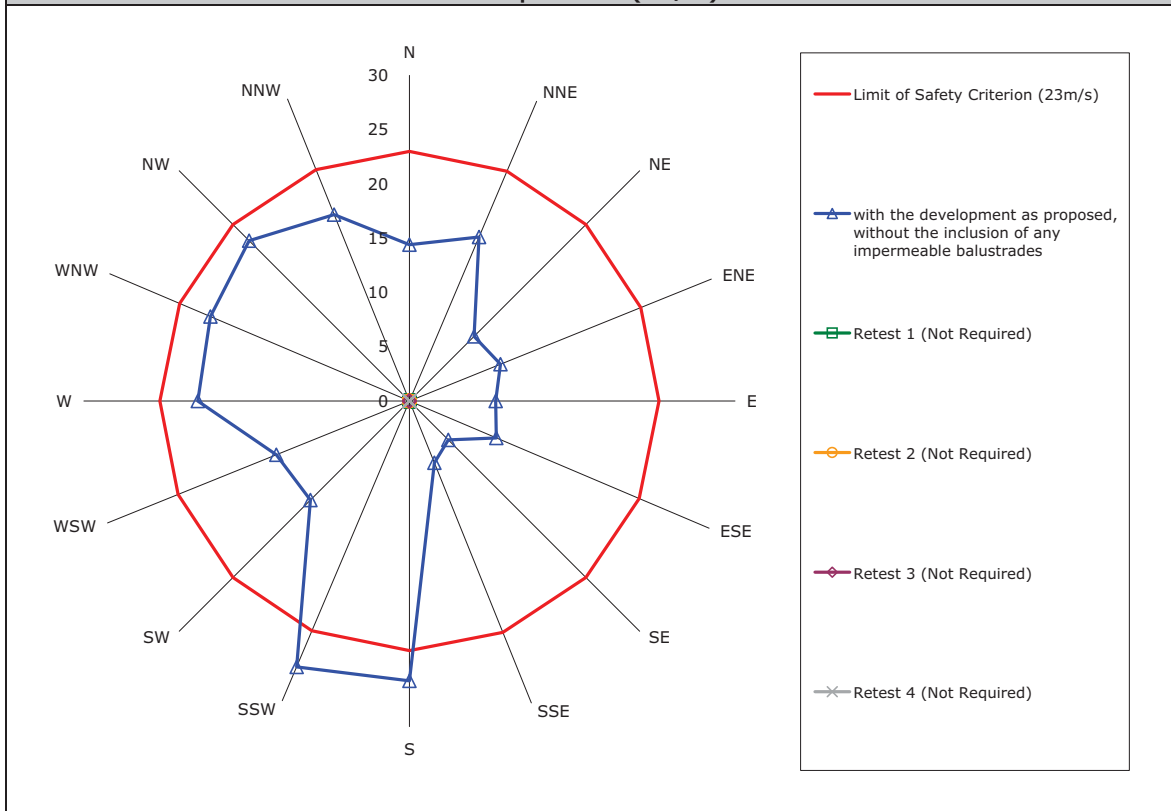


# Measured Wind Speeds at Point 48

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

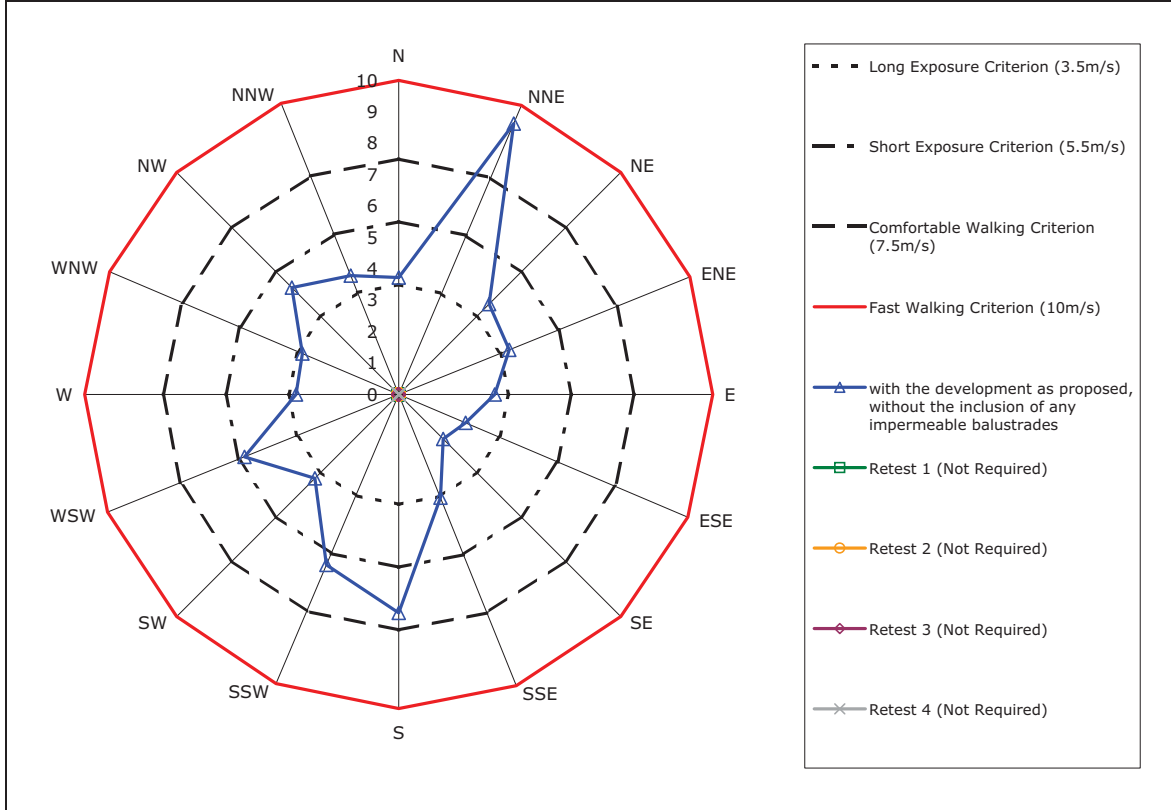


## Annual Maximum Gust Wind Speeds (m/s)

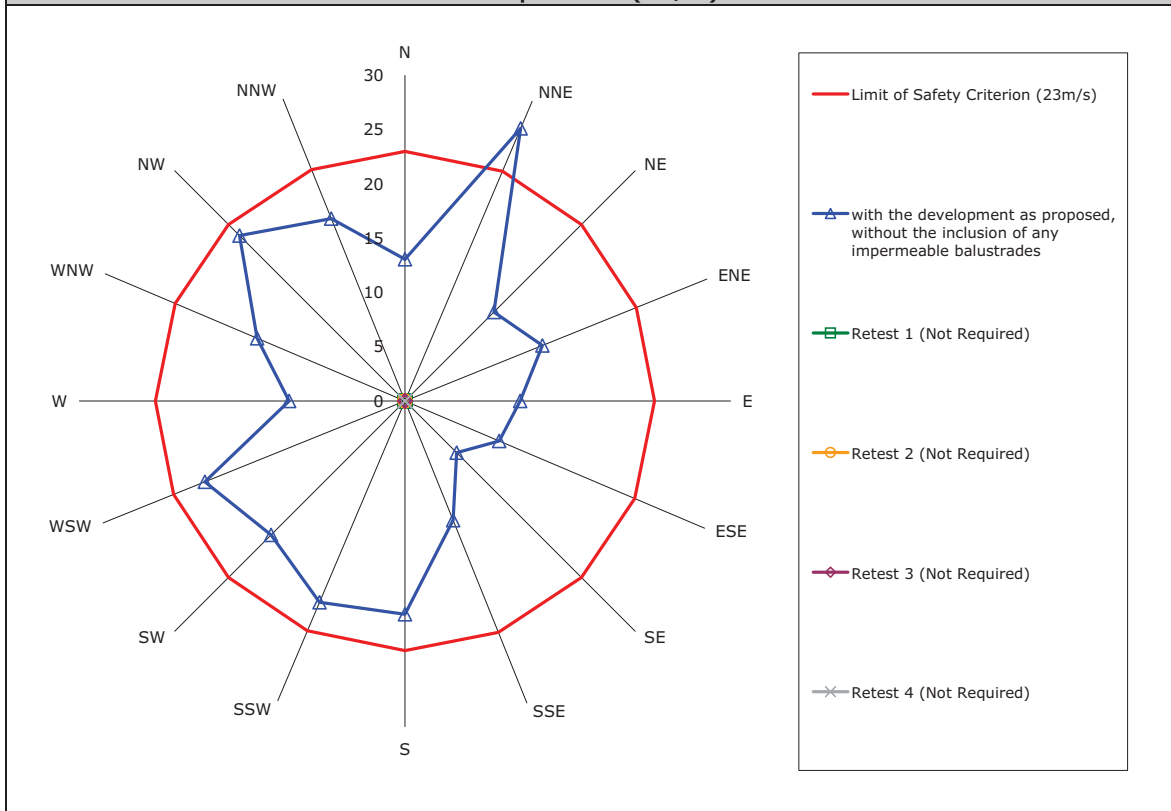


# Measured Wind Speeds at Point 49

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)



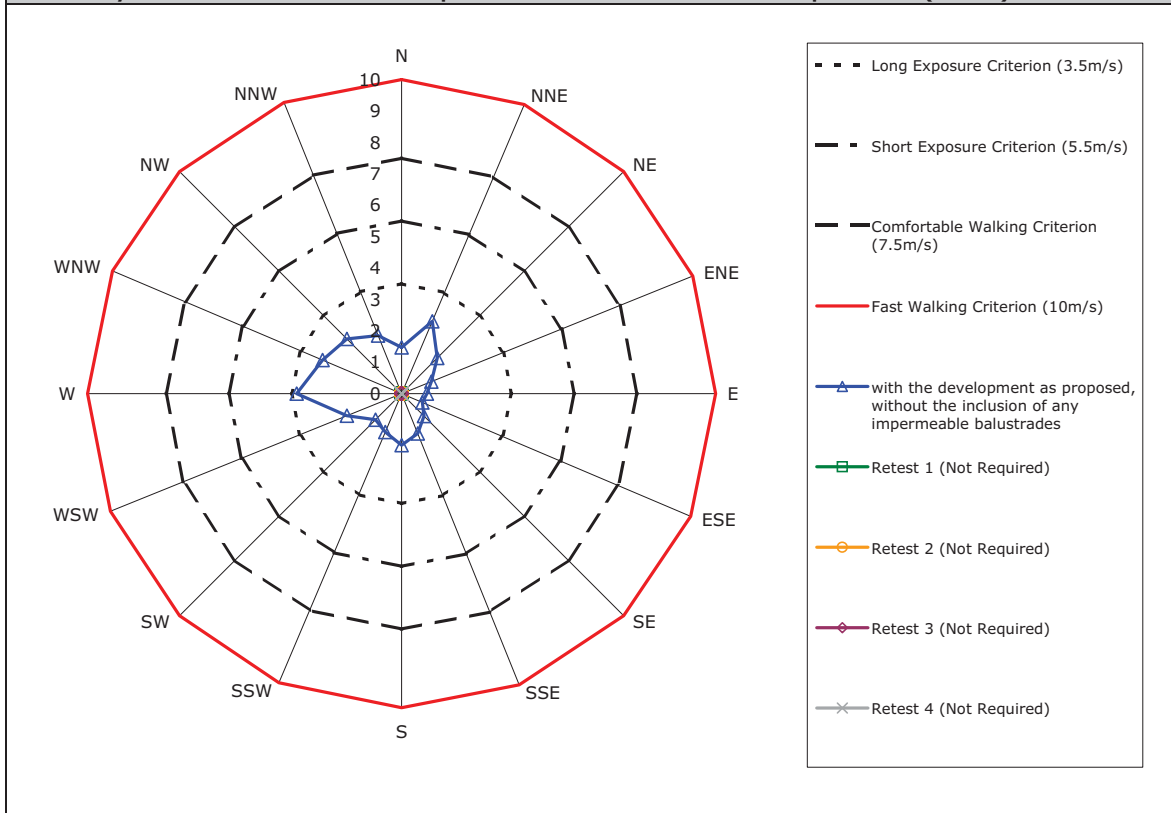
## Annual Maximum Gust Wind Speeds (m/s)



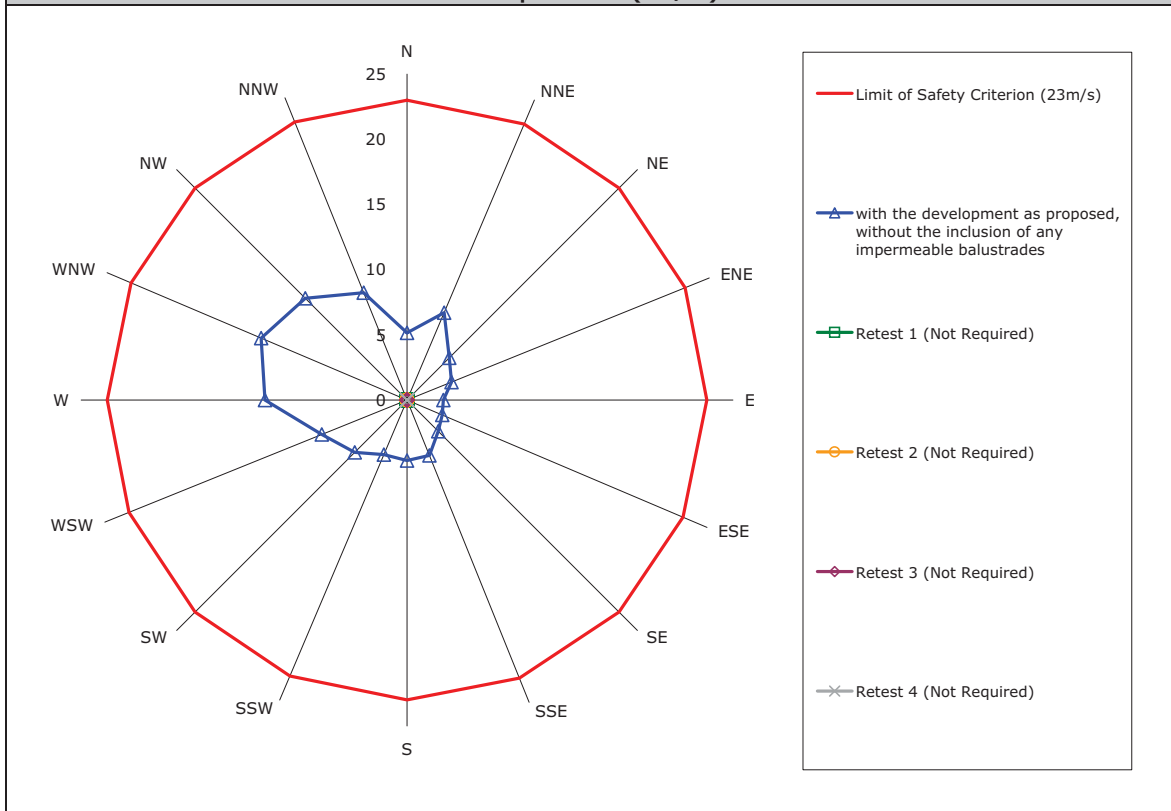


# Measured Wind Speeds at Point 50

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

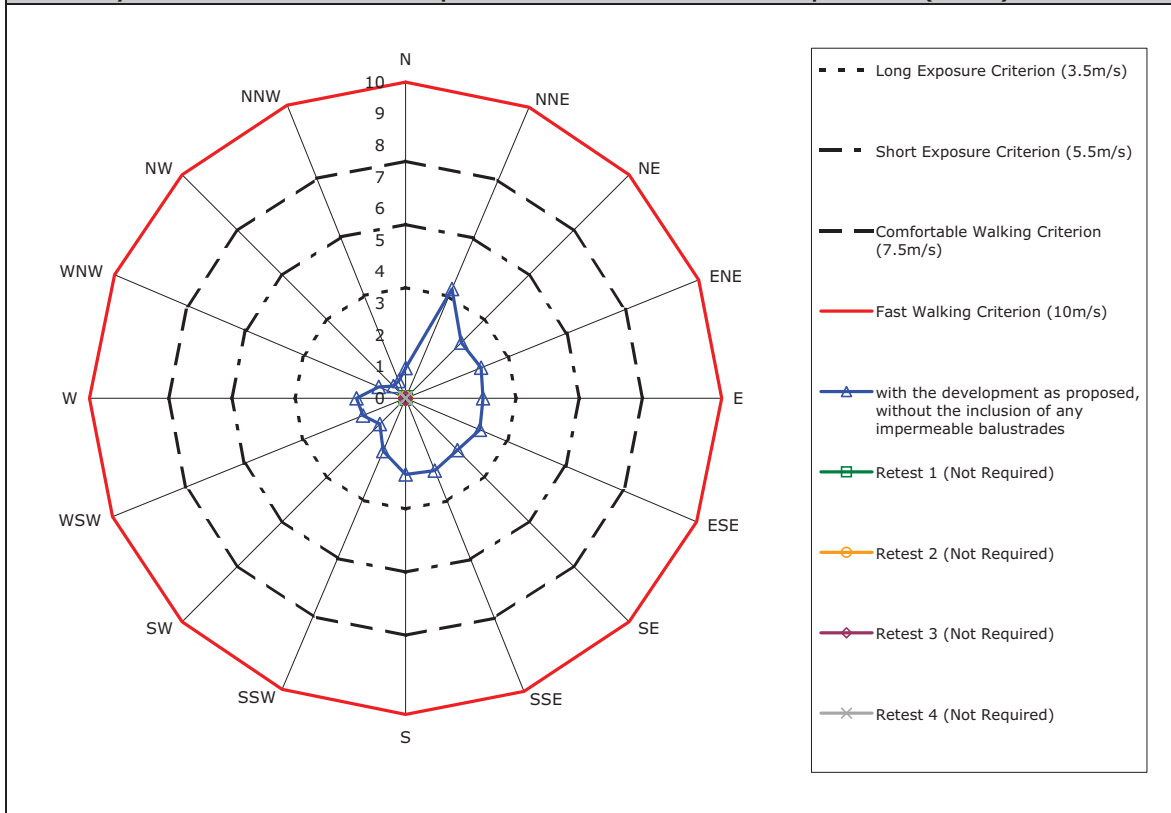


## Annual Maximum Gust Wind Speeds (m/s)

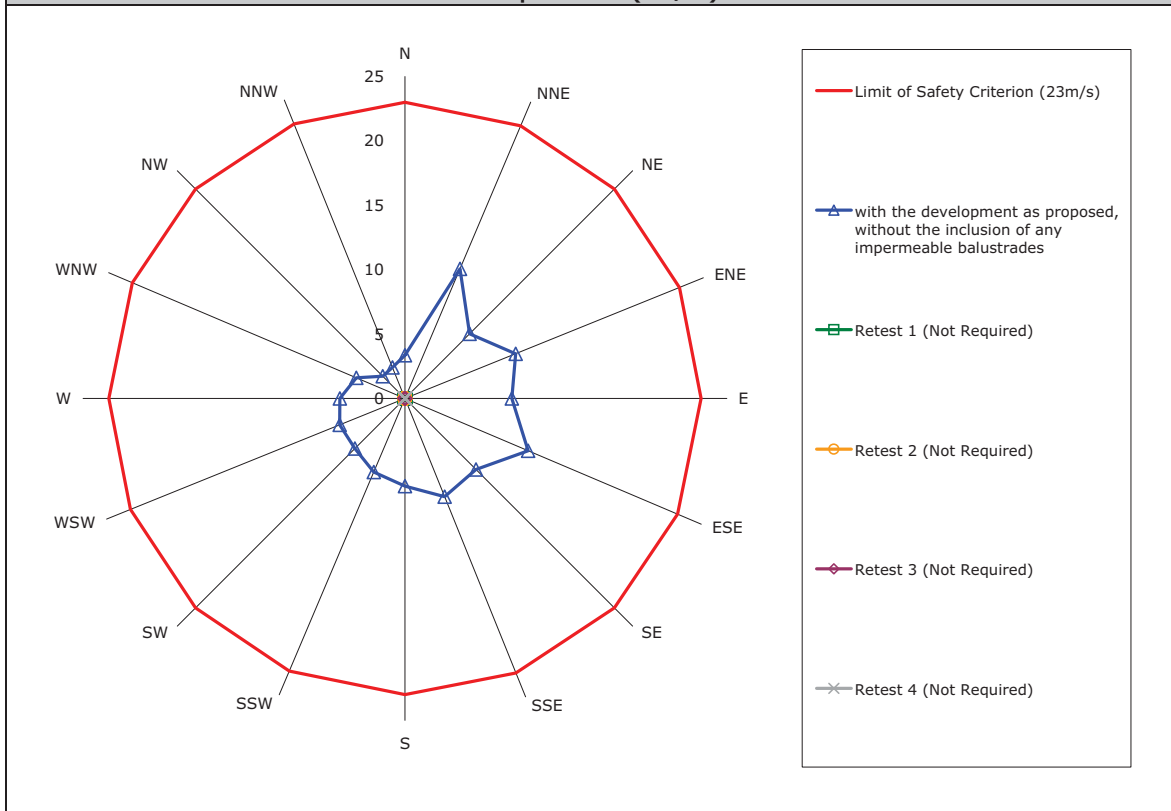


# Measured Wind Speeds at Point 51

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

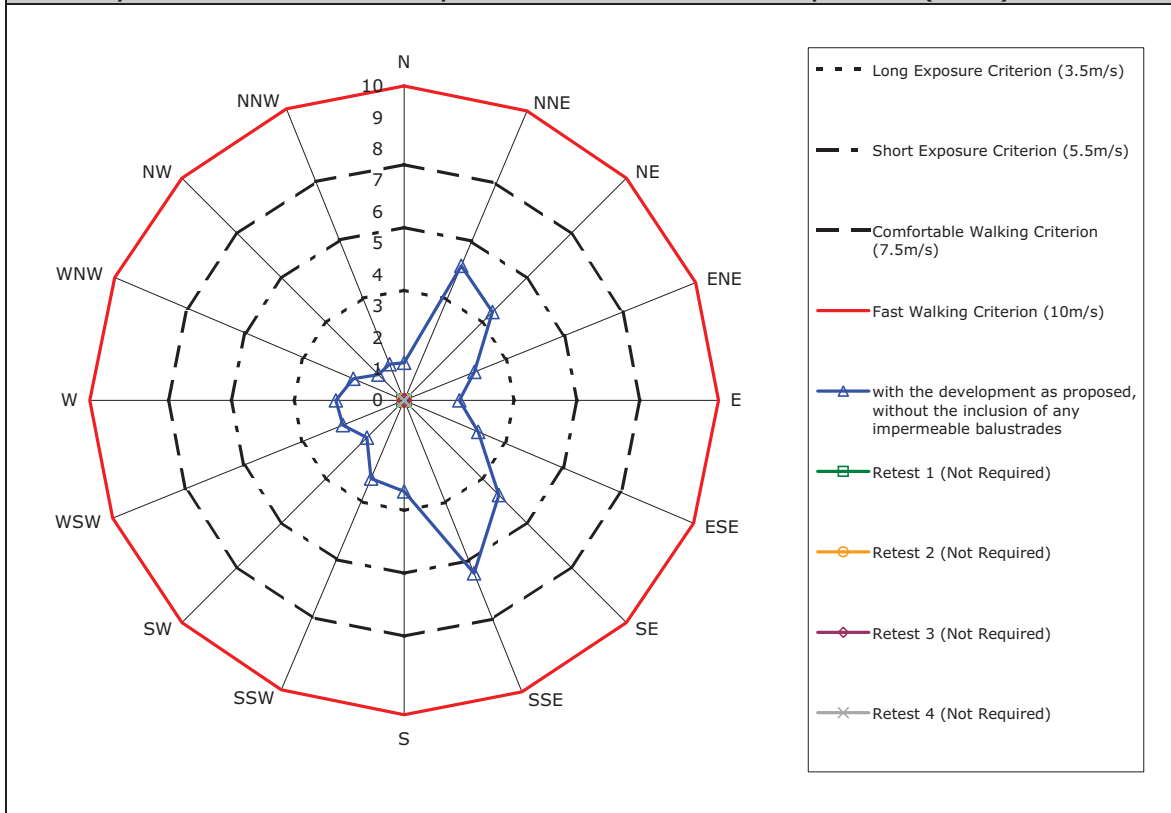


## Annual Maximum Gust Wind Speeds (m/s)

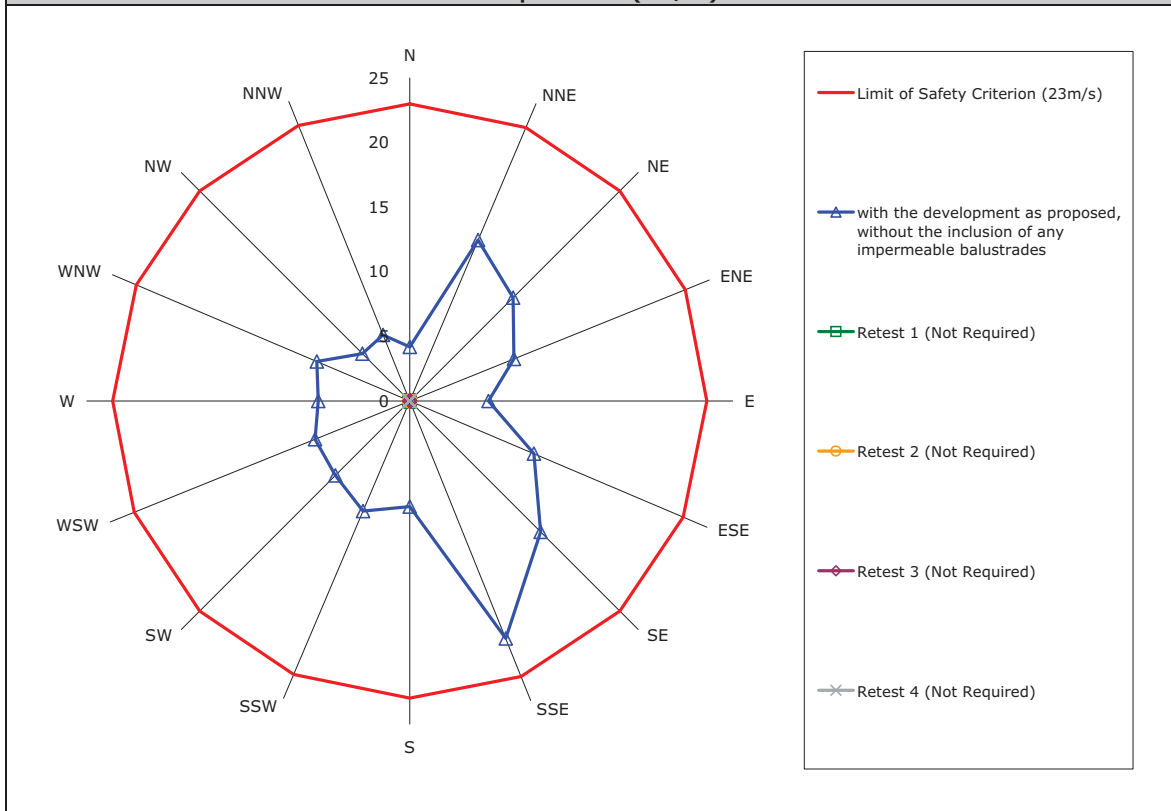


# Measured Wind Speeds at Point 52

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

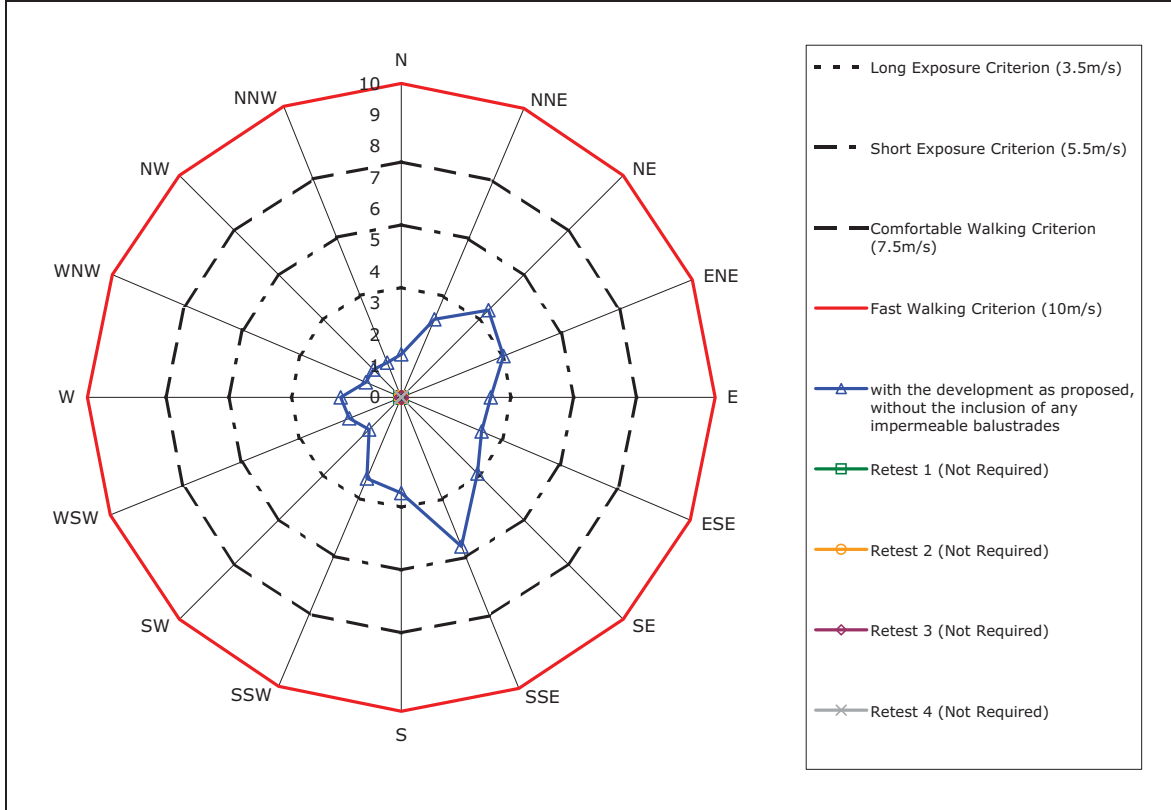


## Annual Maximum Gust Wind Speeds (m/s)

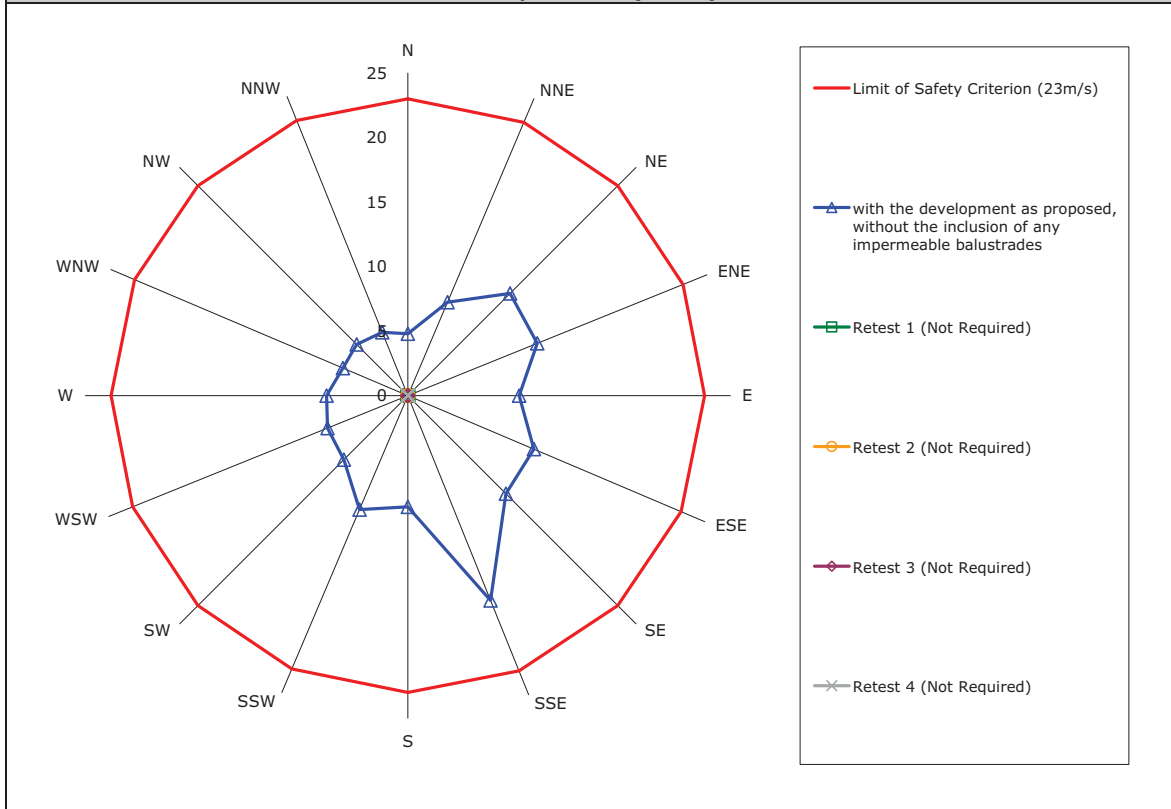


# Measured Wind Speeds at Point 53

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

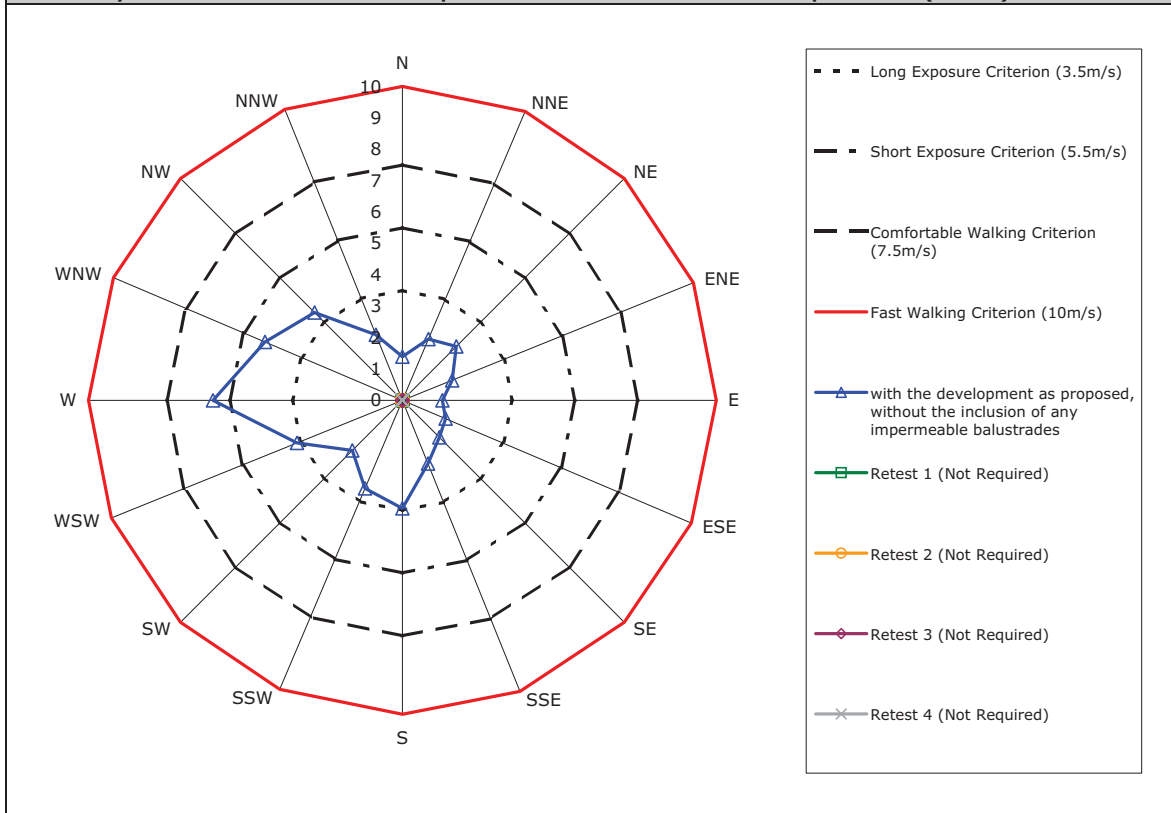


## Annual Maximum Gust Wind Speeds (m/s)

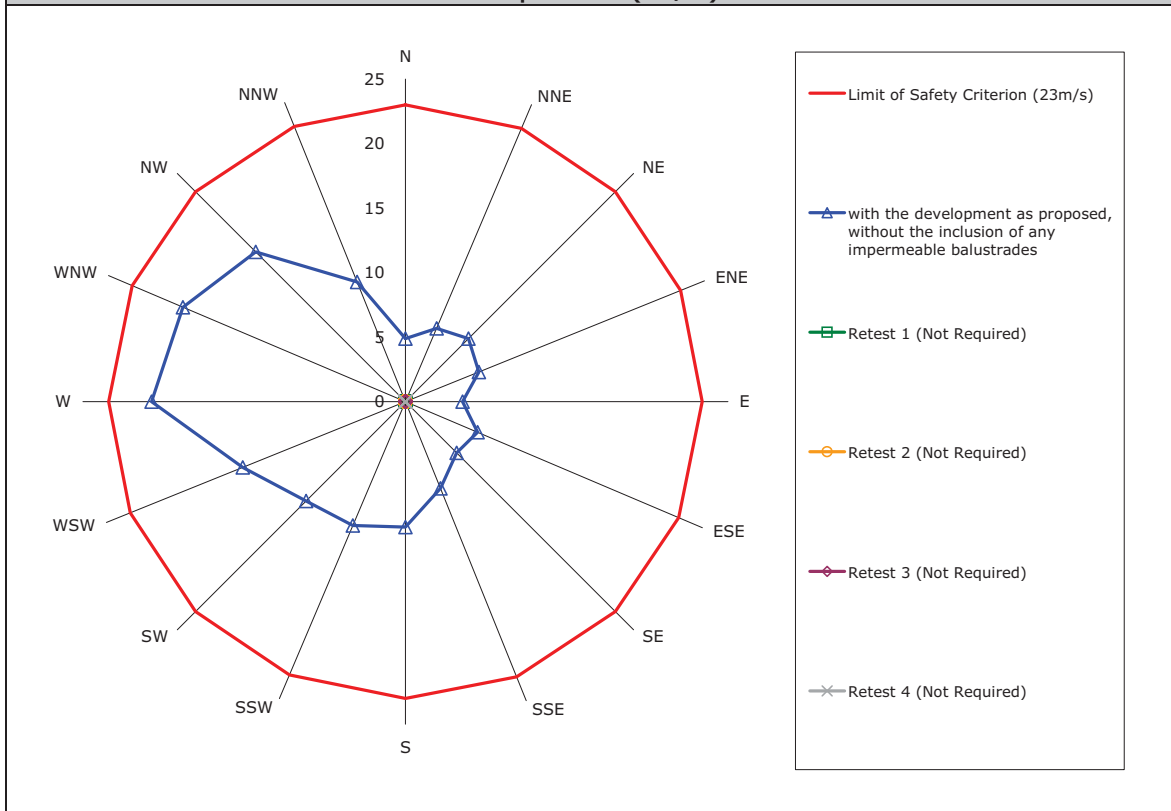


# Measured Wind Speeds at Point 54

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

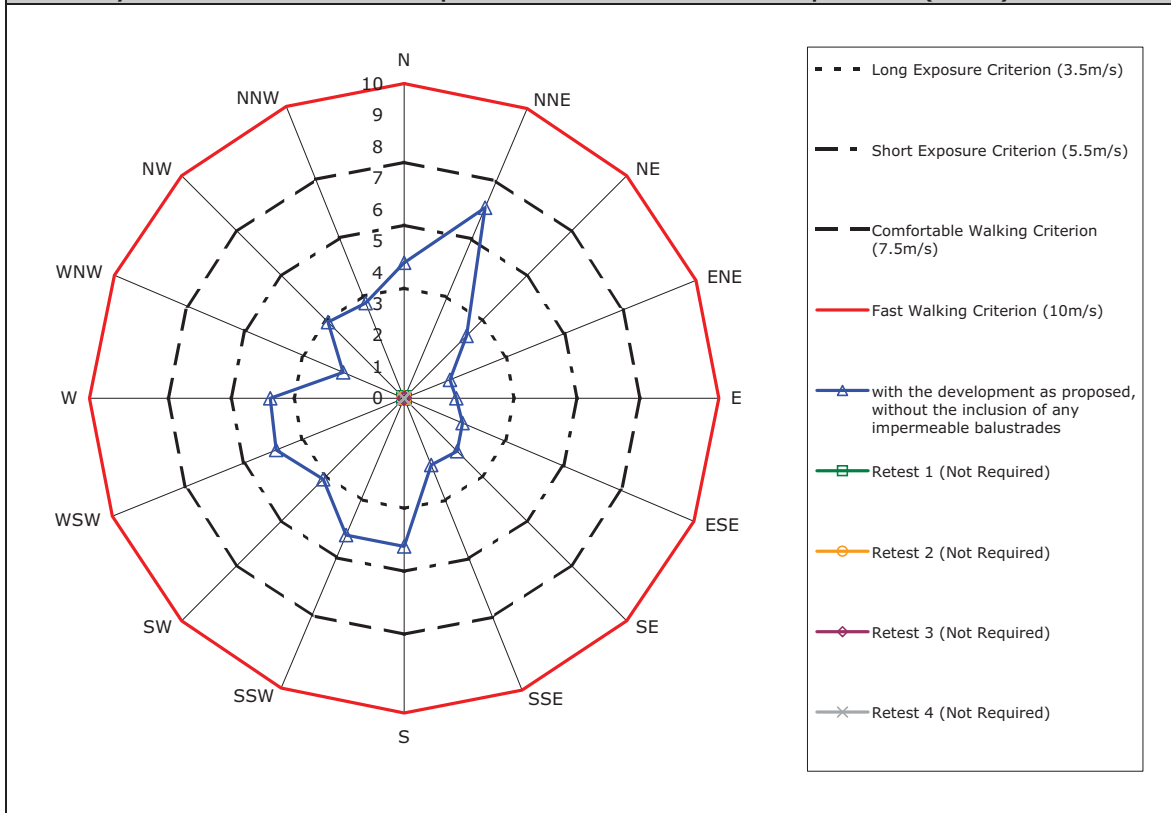


## Annual Maximum Gust Wind Speeds (m/s)

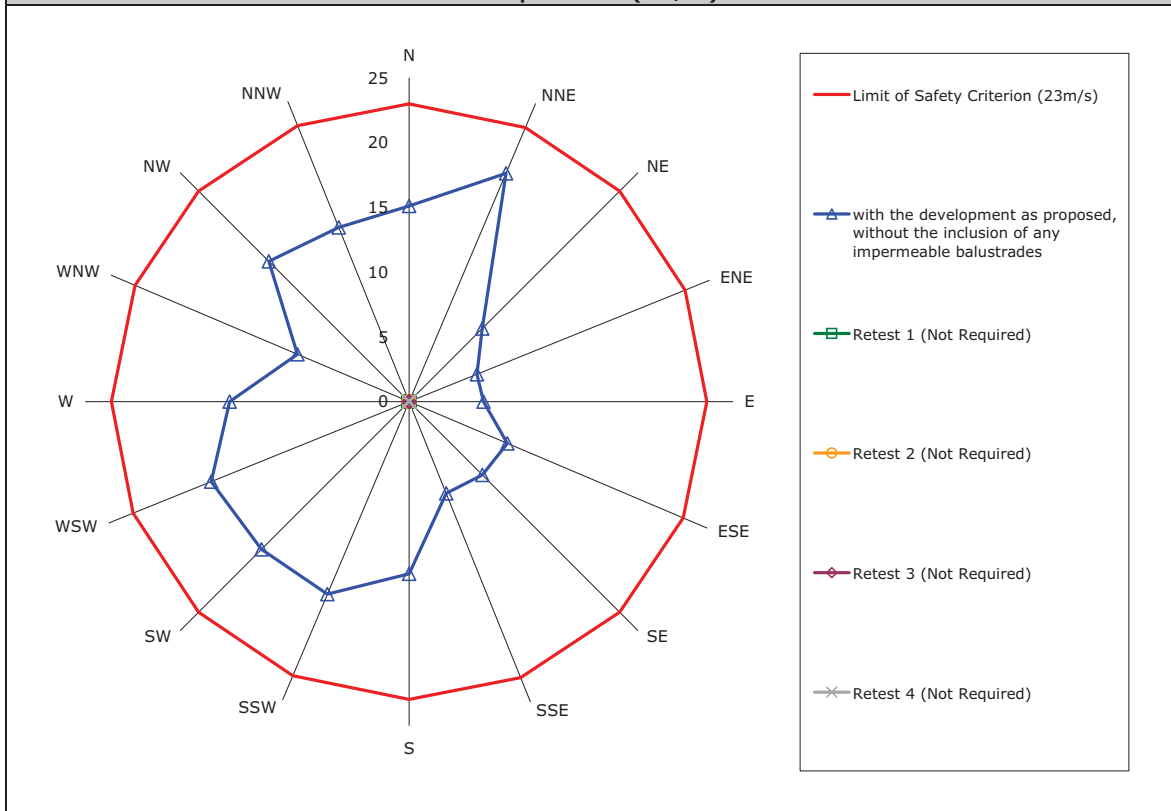


# Measured Wind Speeds at Point 55

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

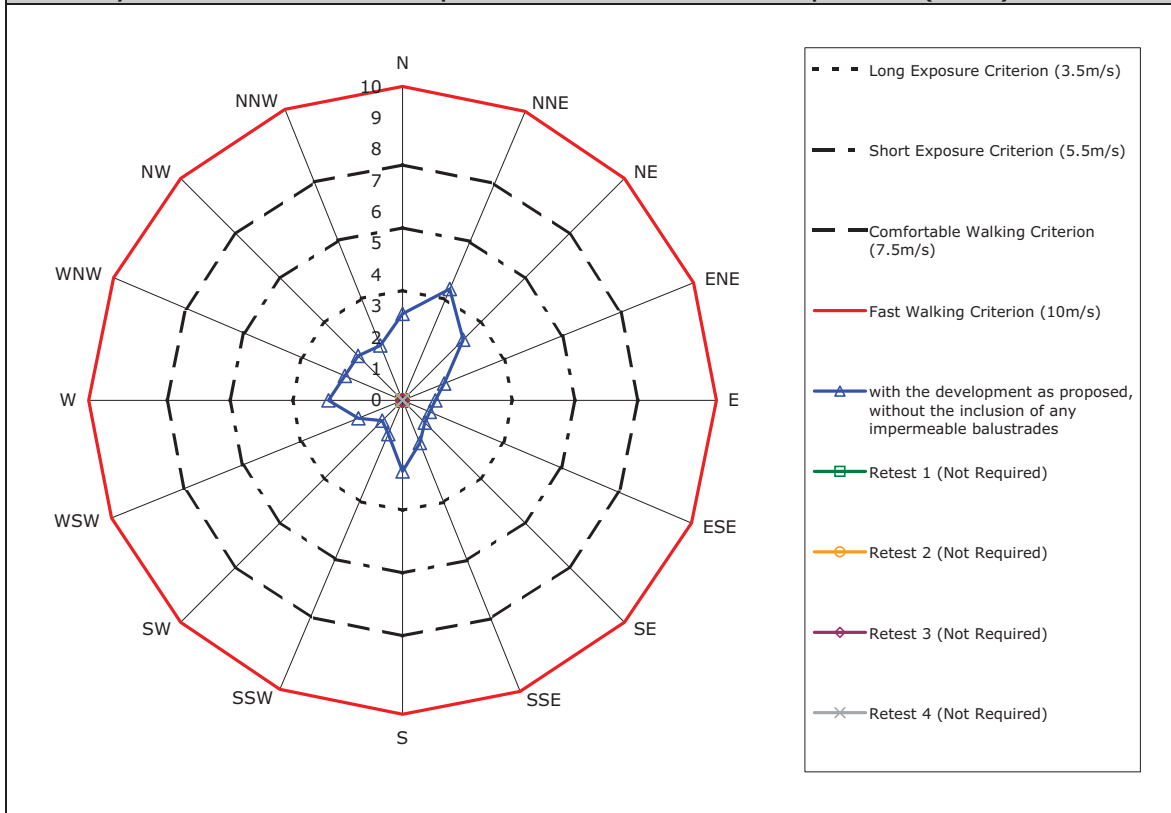


## Annual Maximum Gust Wind Speeds (m/s)

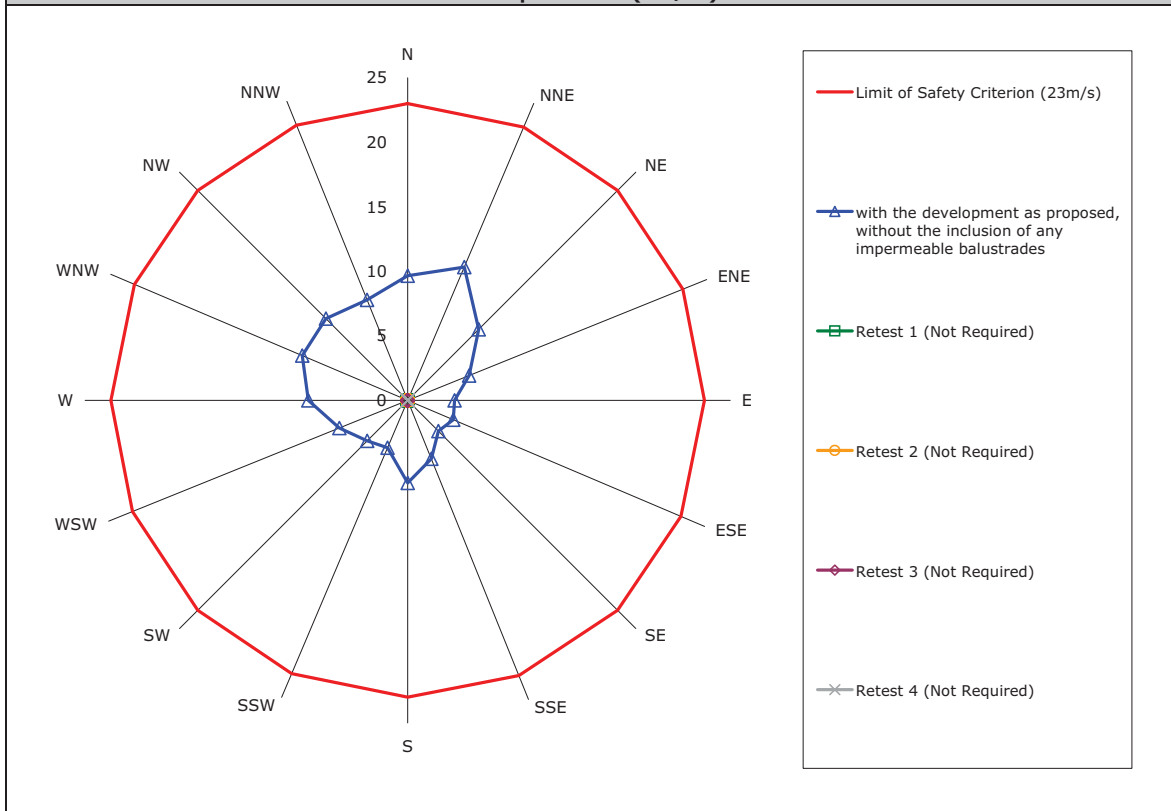


# Measured Wind Speeds at Point 56

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

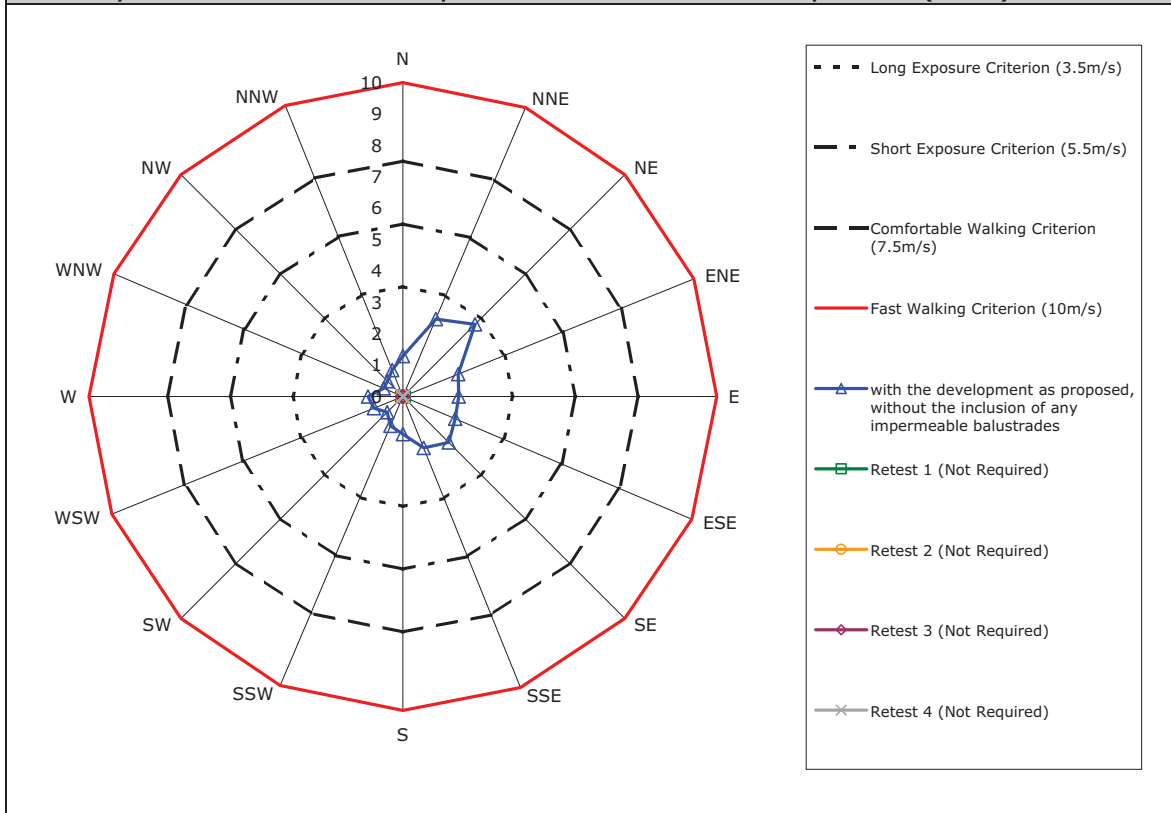


## Annual Maximum Gust Wind Speeds (m/s)

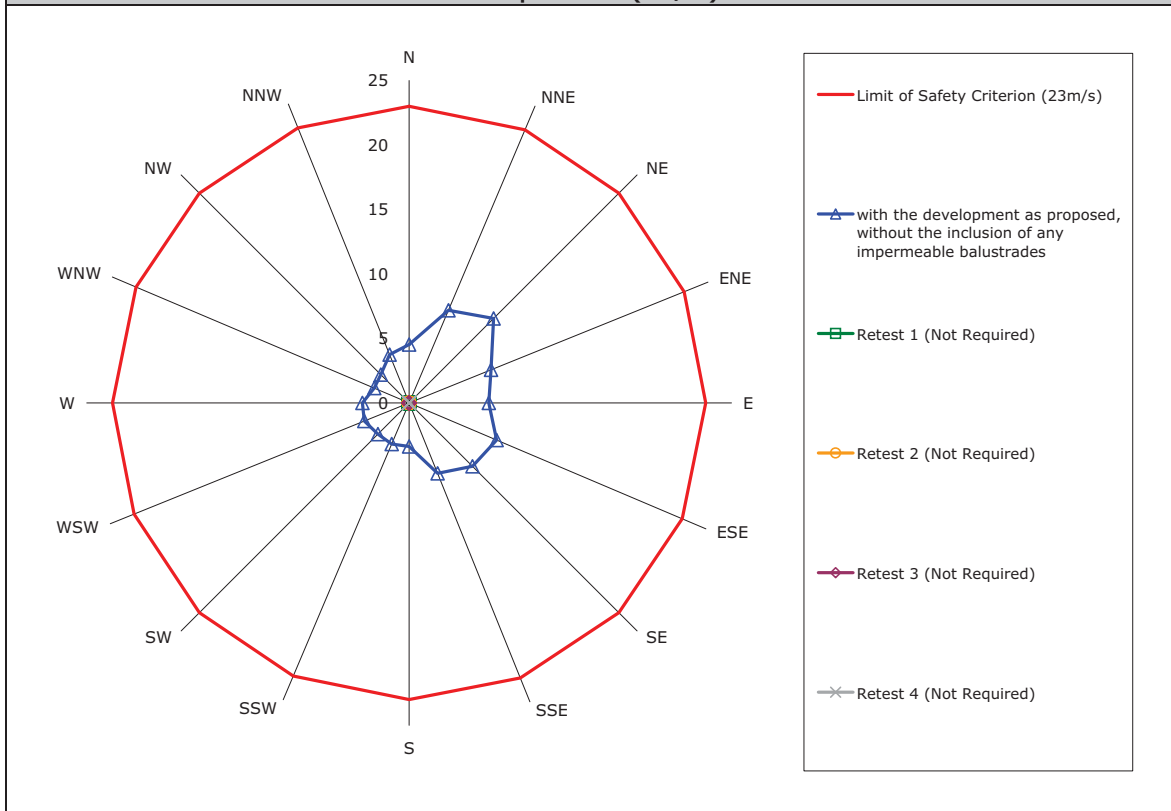


# Measured Wind Speeds at Point 57

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)



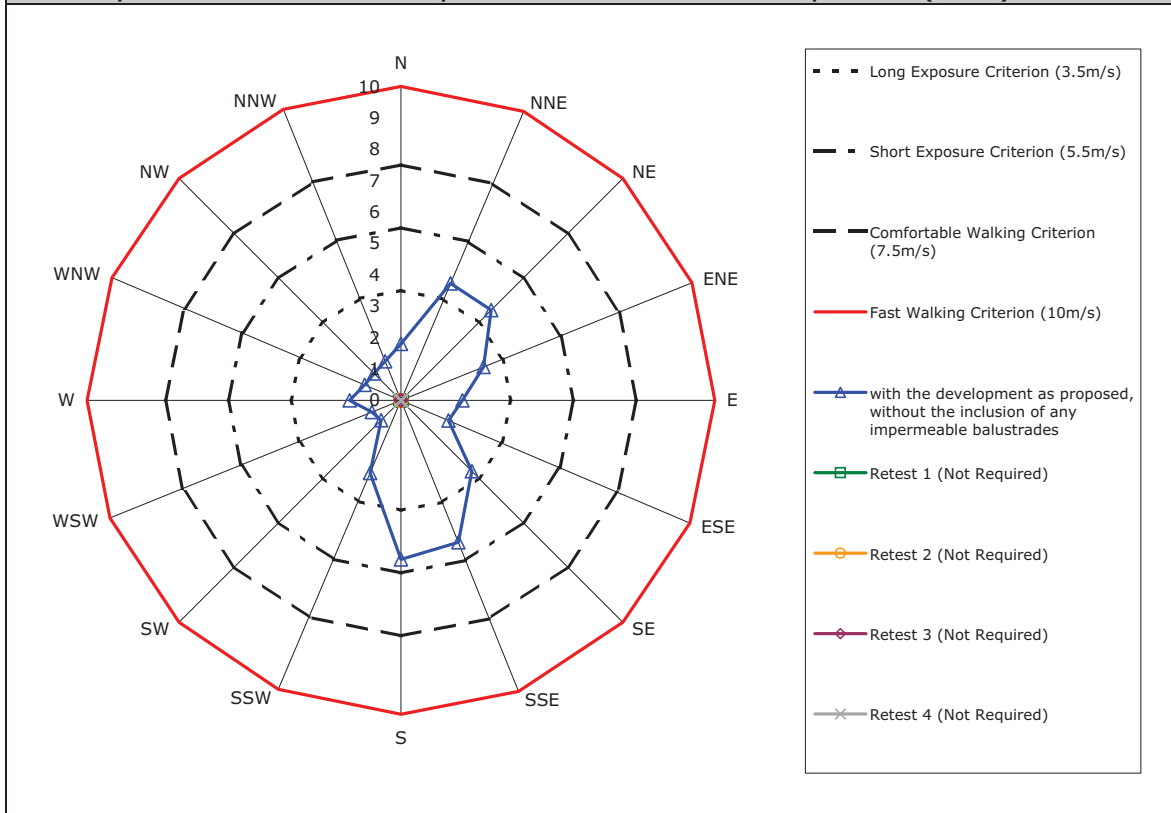
## Annual Maximum Gust Wind Speeds (m/s)



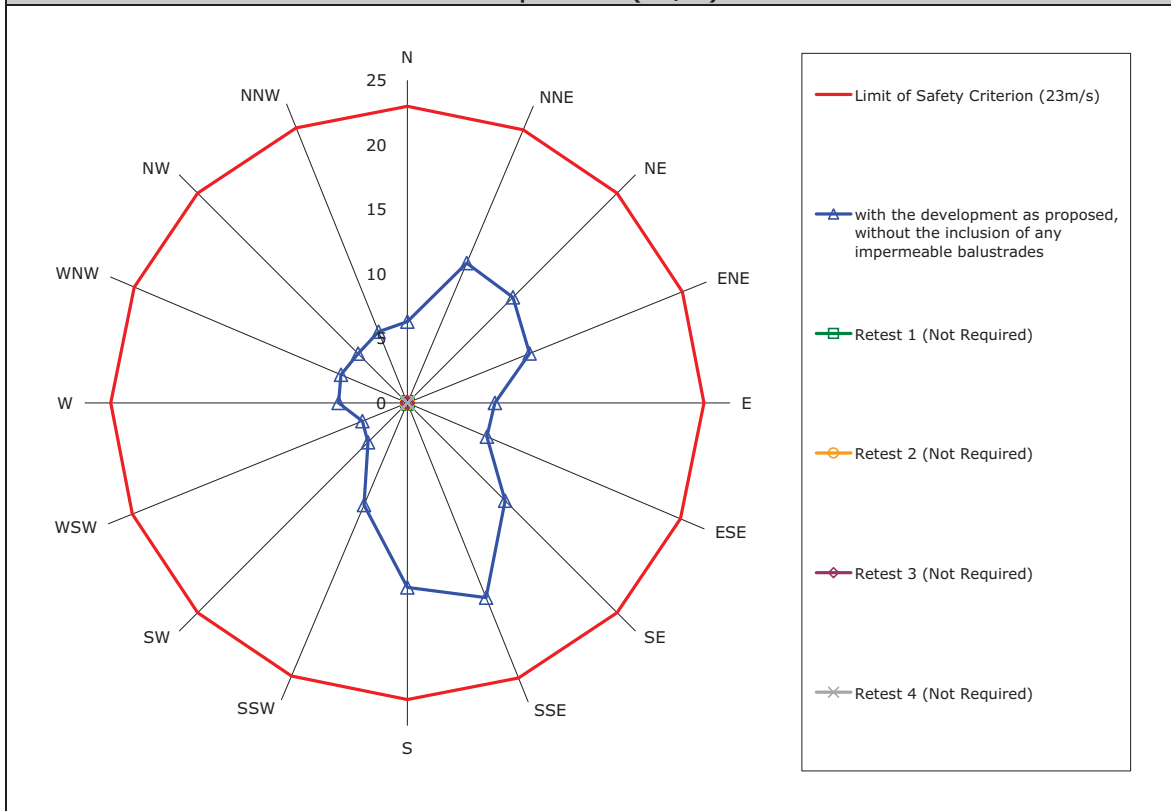


# Measured Wind Speeds at Point 58

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

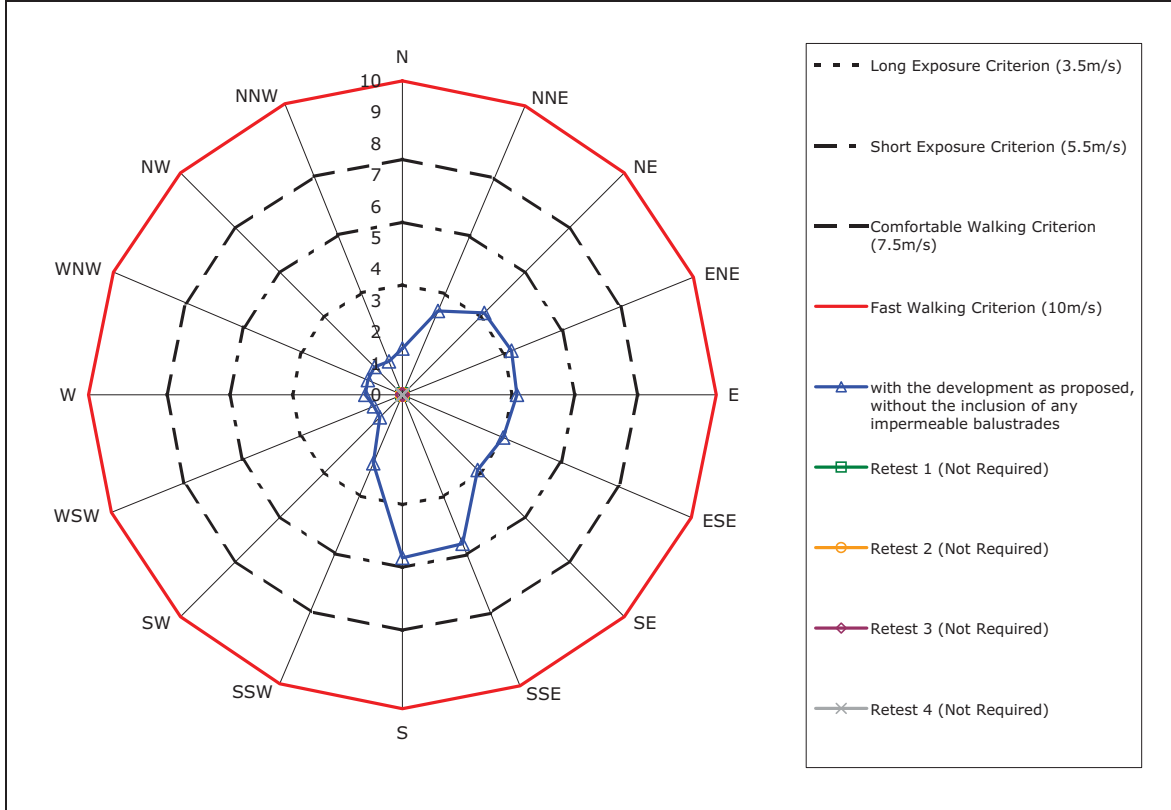


## Annual Maximum Gust Wind Speeds (m/s)

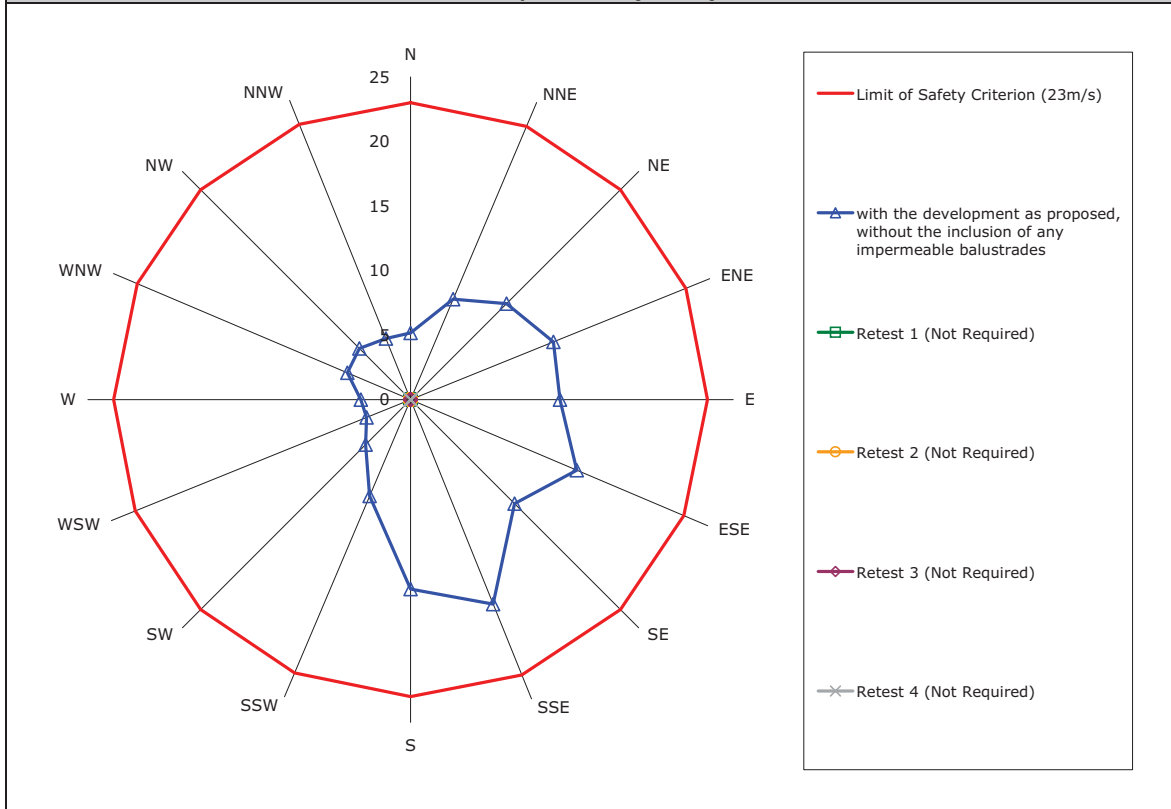


# Measured Wind Speeds at Point 59

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

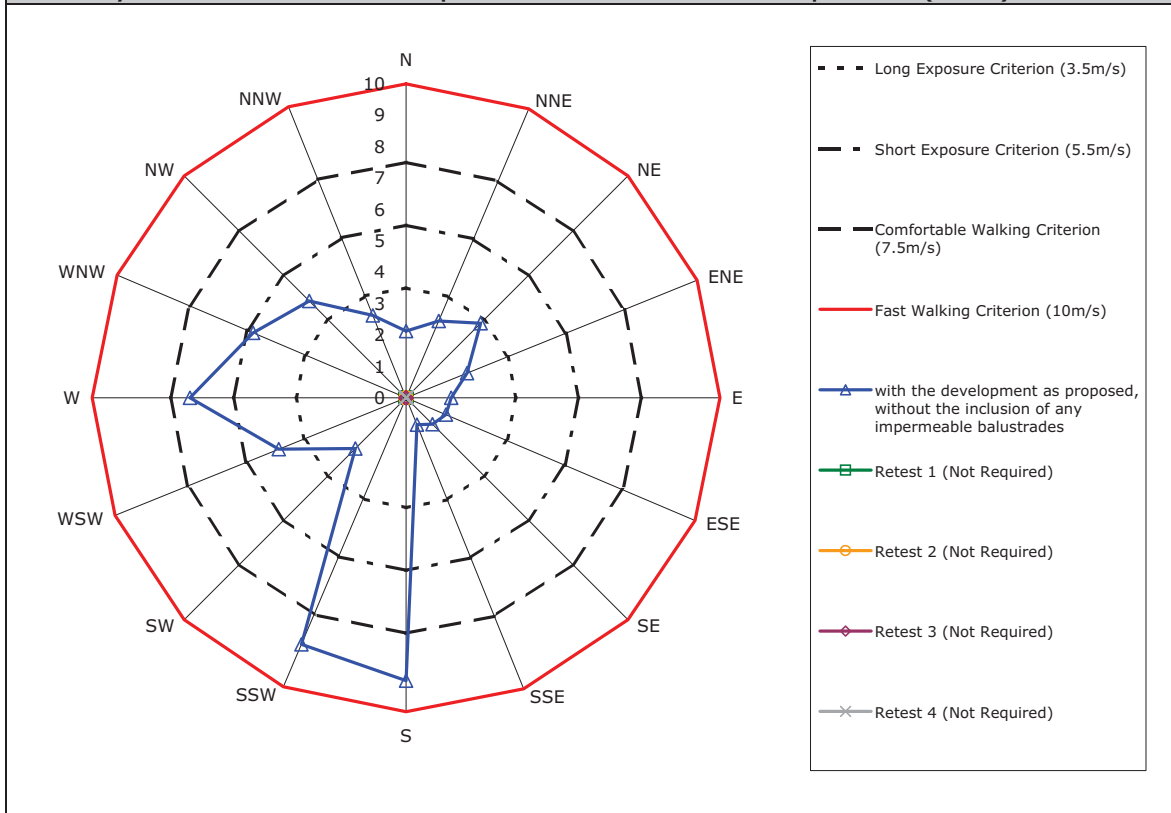


## Annual Maximum Gust Wind Speeds (m/s)

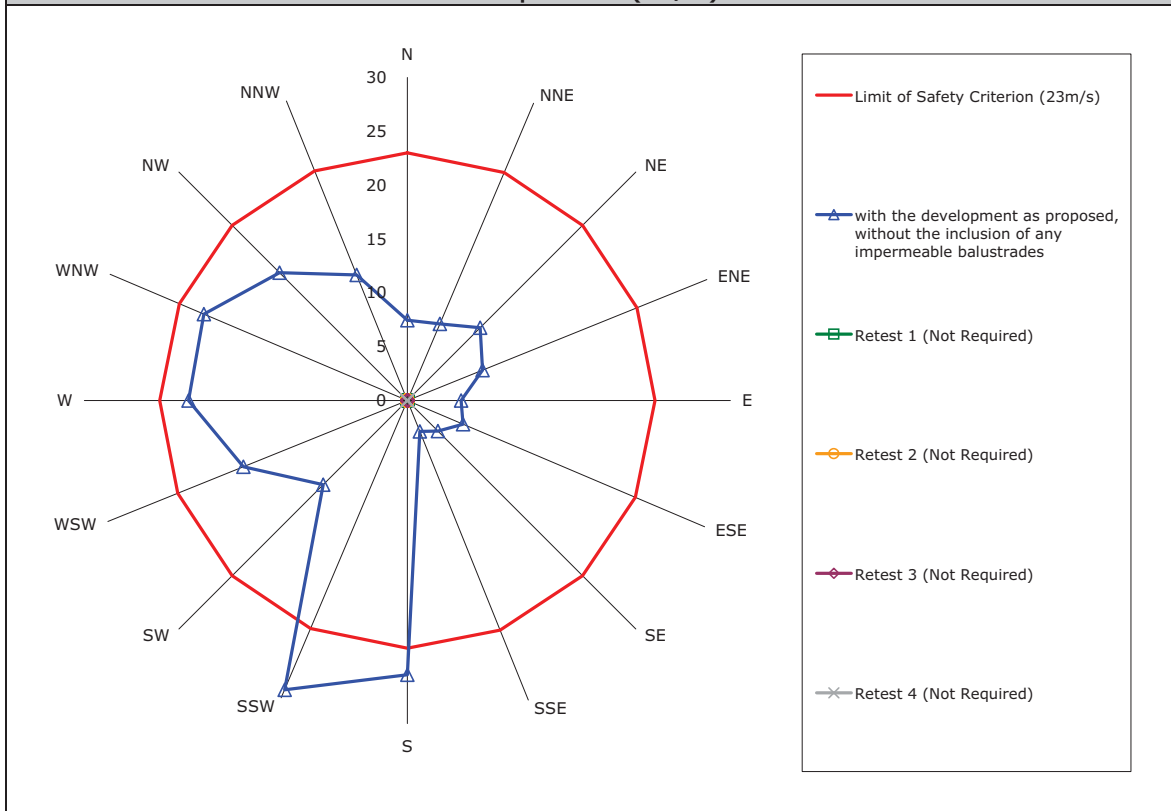


# Measured Wind Speeds at Point 60

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

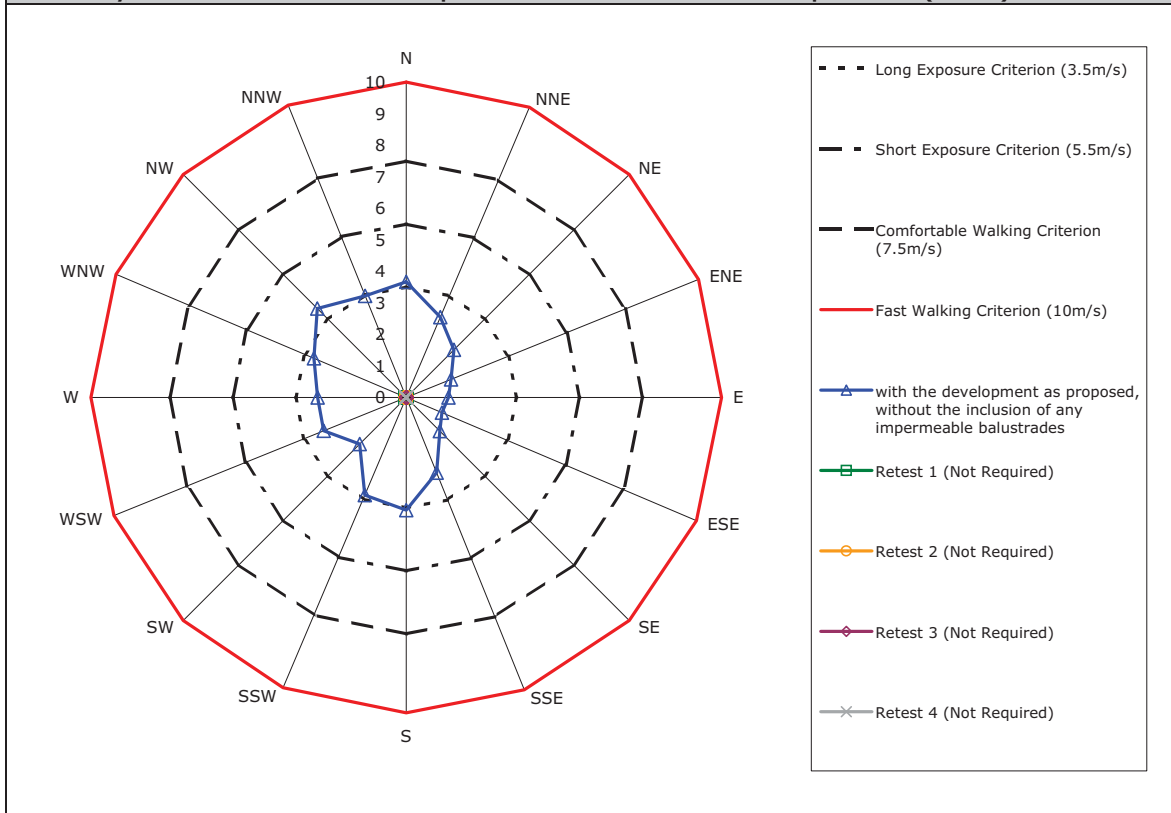


## Annual Maximum Gust Wind Speeds (m/s)

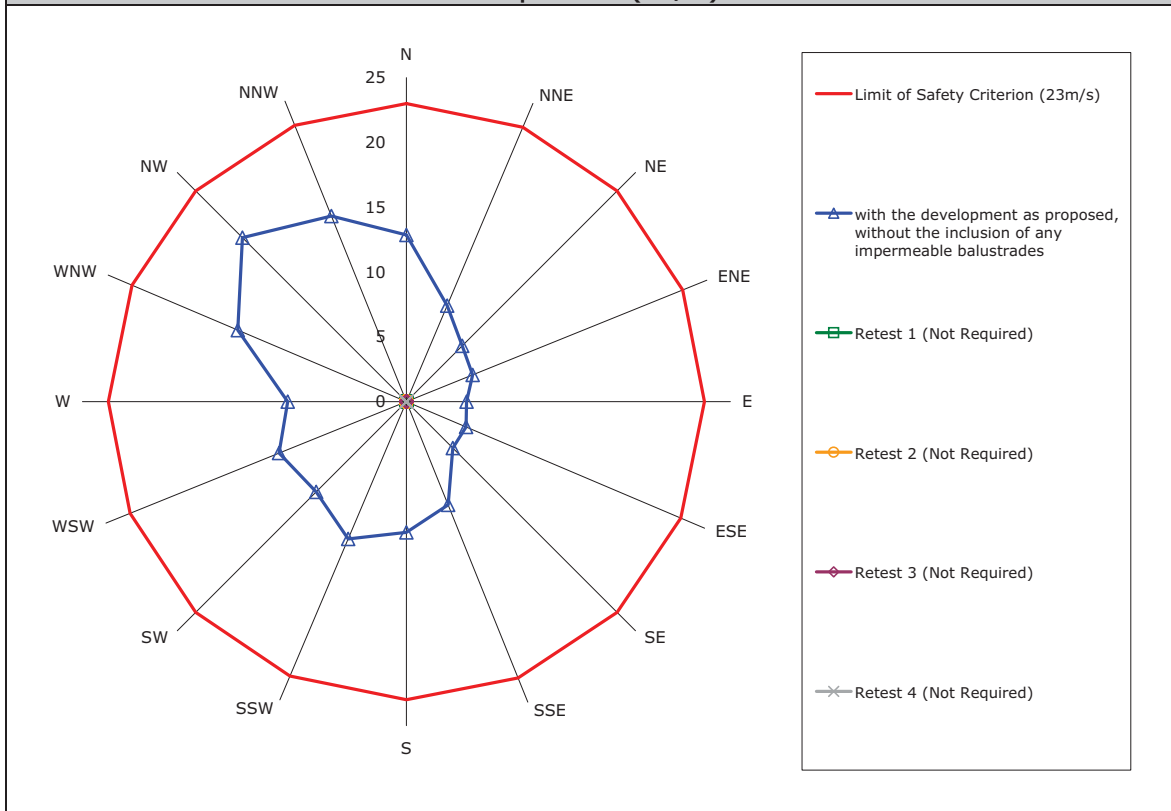


# Measured Wind Speeds at Point 61

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

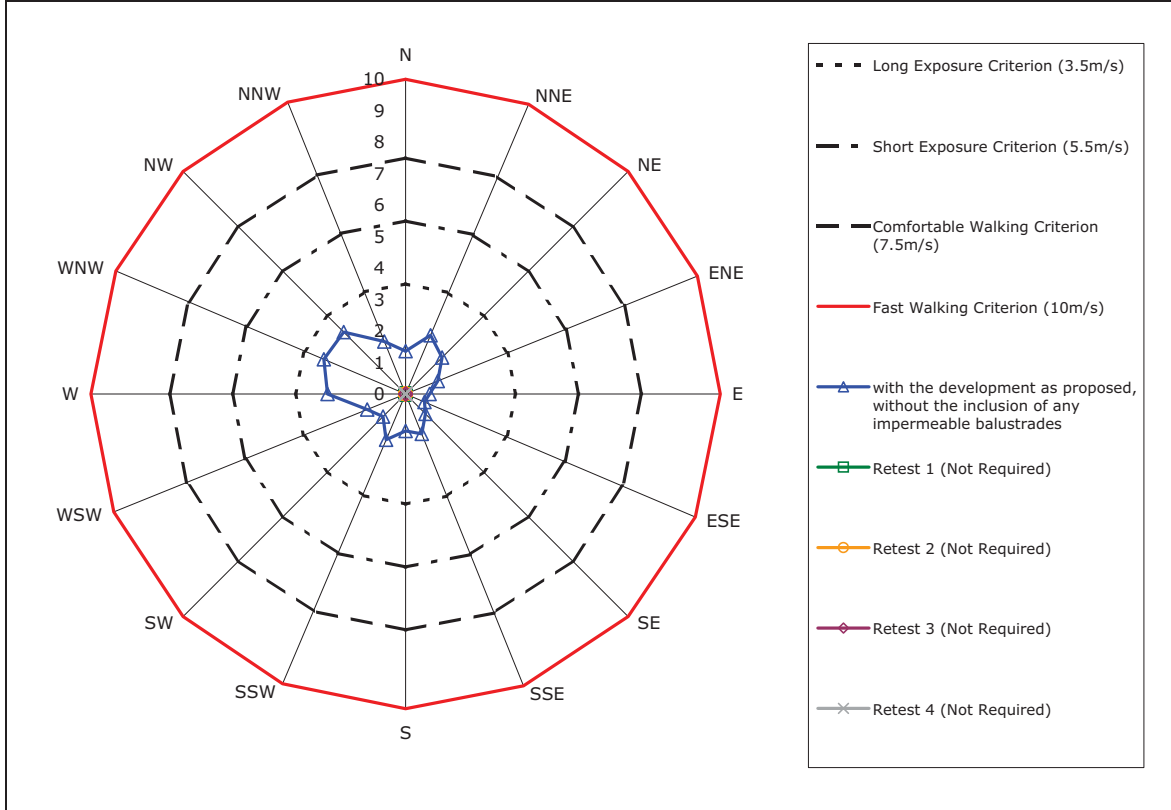


## Annual Maximum Gust Wind Speeds (m/s)

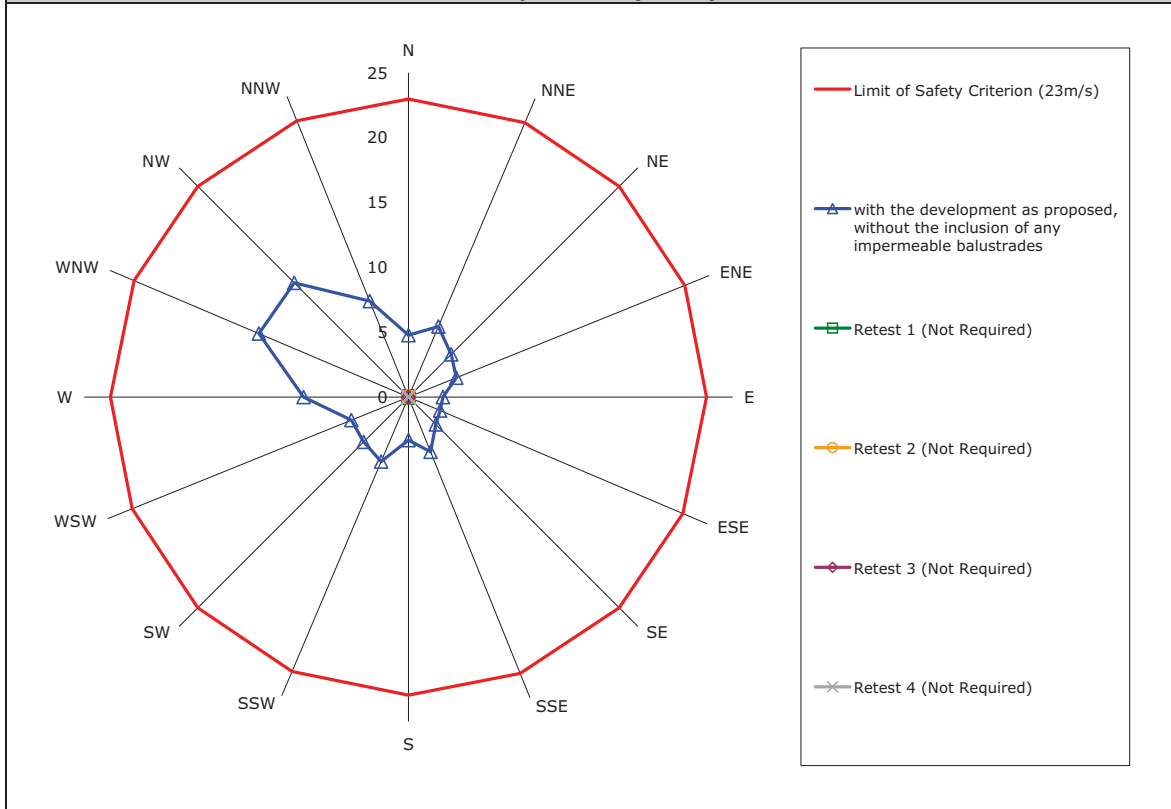


# Measured Wind Speeds at Point 62

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

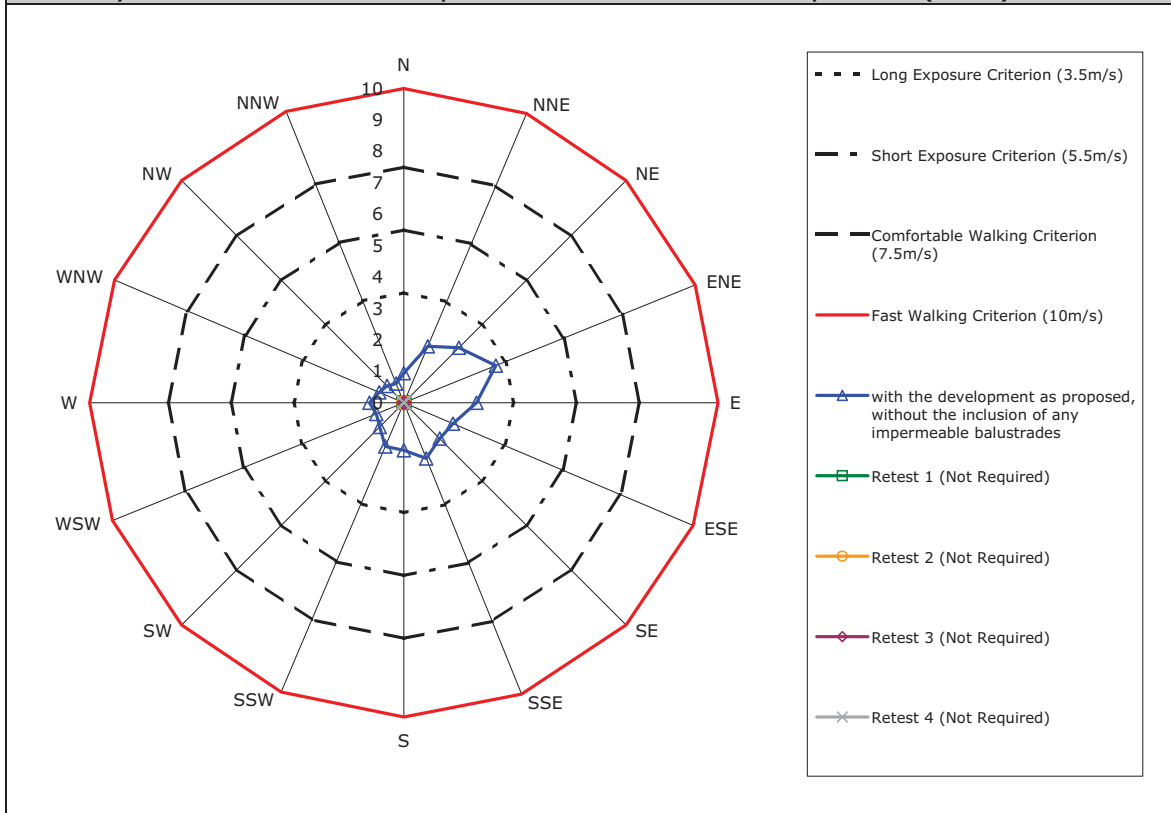


## Annual Maximum Gust Wind Speeds (m/s)

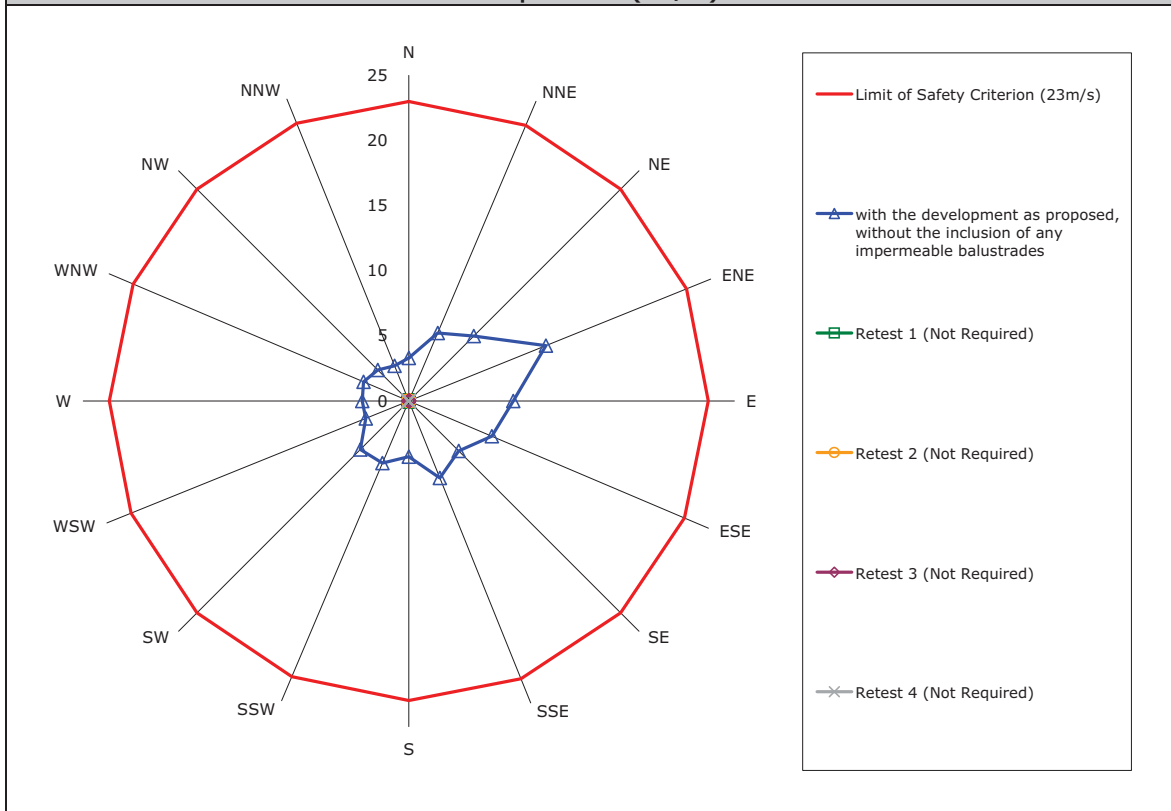


# Measured Wind Speeds at Point 63

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

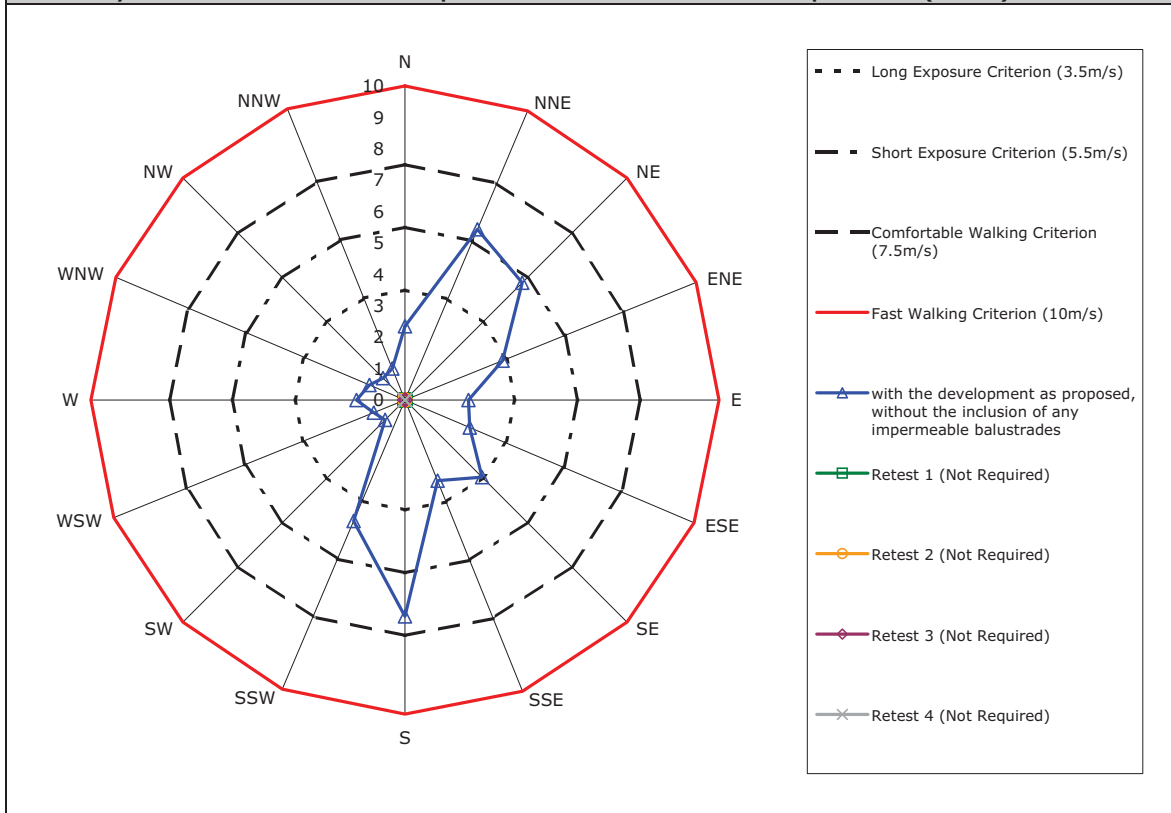


## Annual Maximum Gust Wind Speeds (m/s)

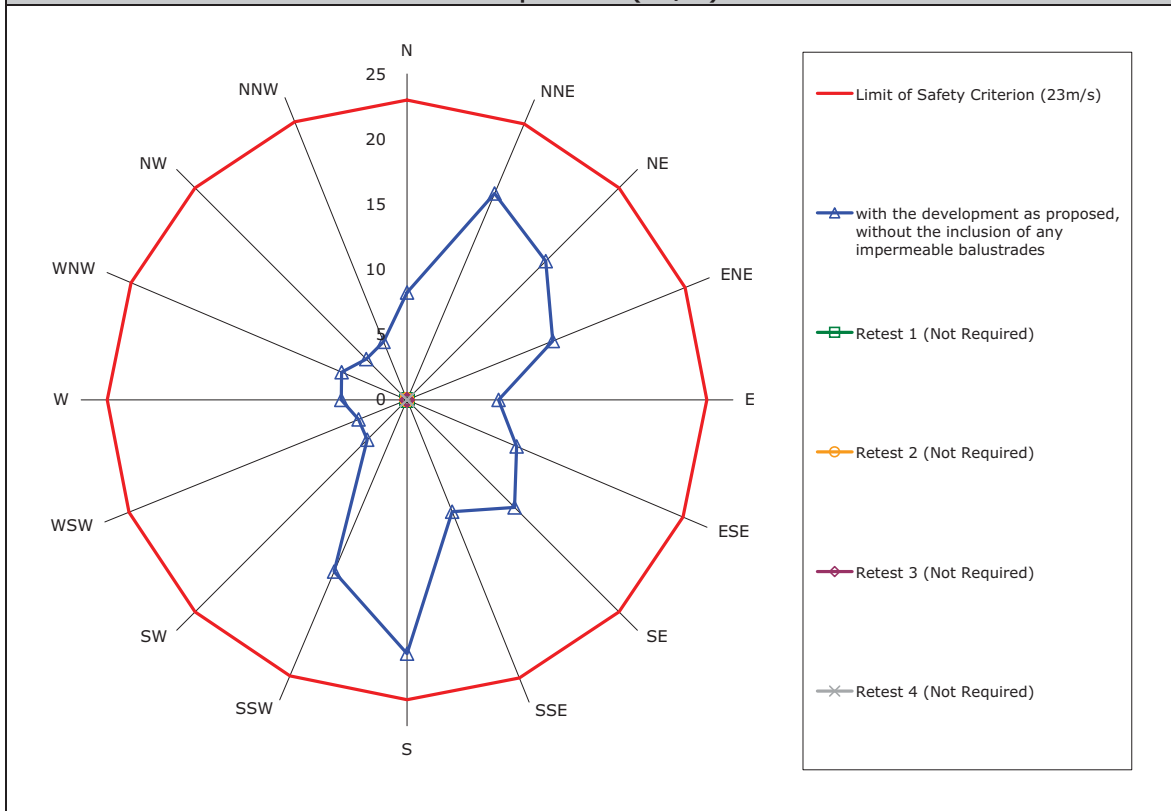


# Measured Wind Speeds at Point 64

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

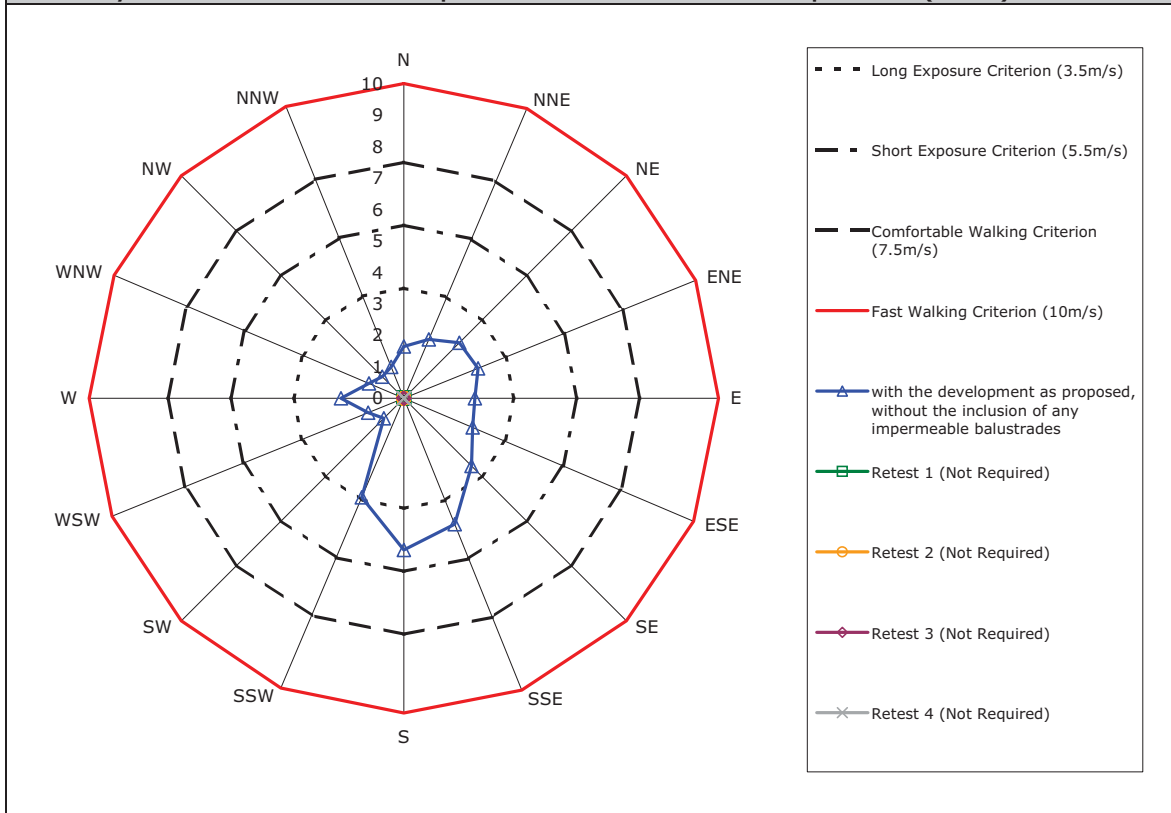


## Annual Maximum Gust Wind Speeds (m/s)

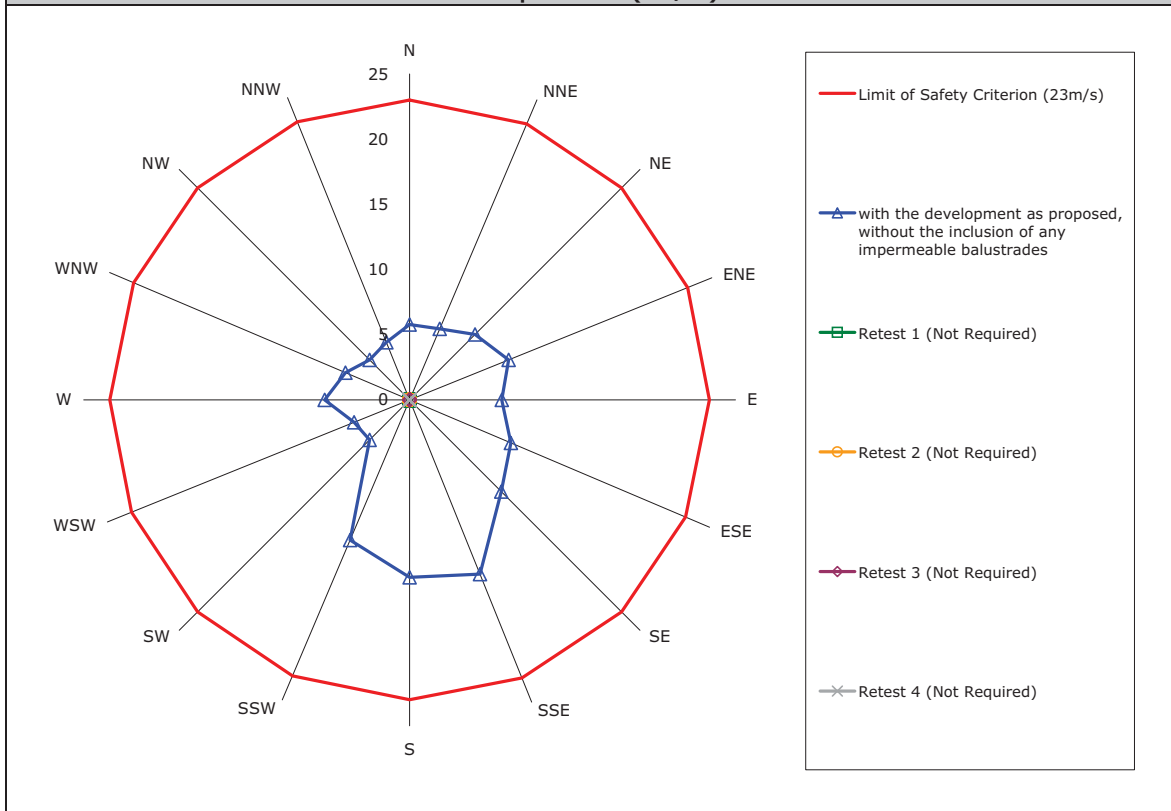


# Measured Wind Speeds at Point 65

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)



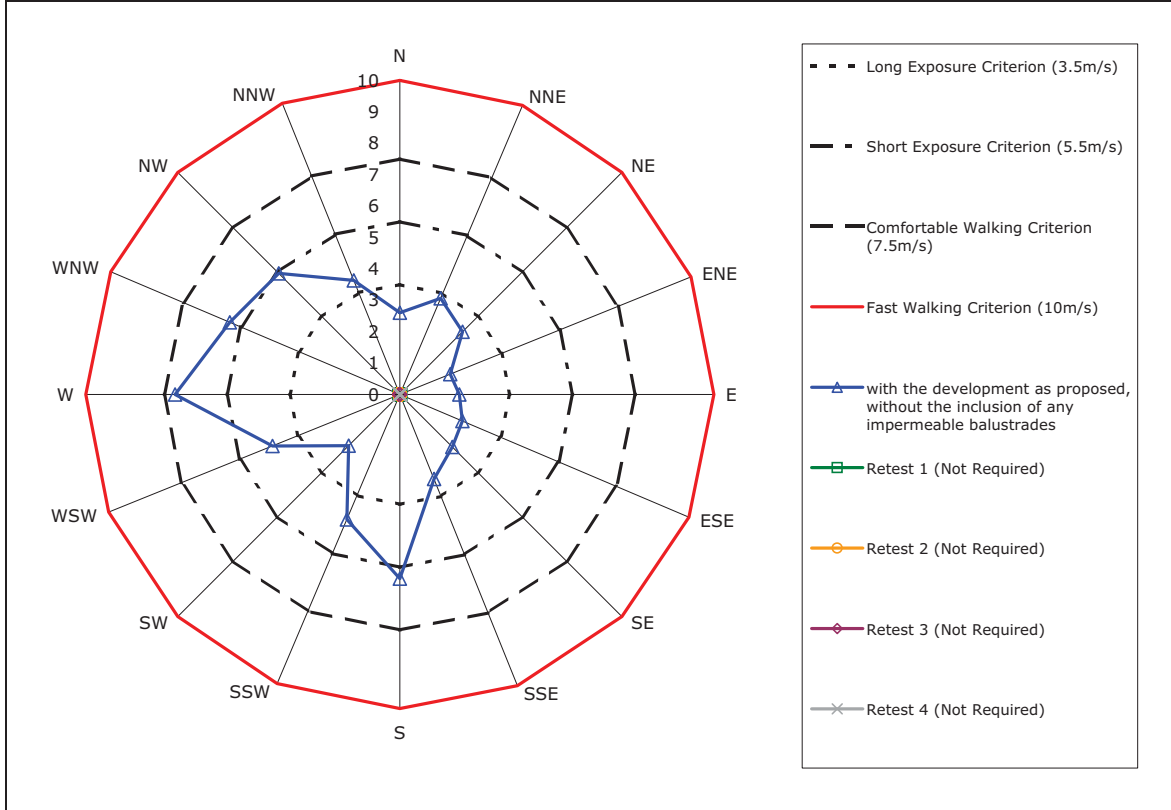
## Annual Maximum Gust Wind Speeds (m/s)



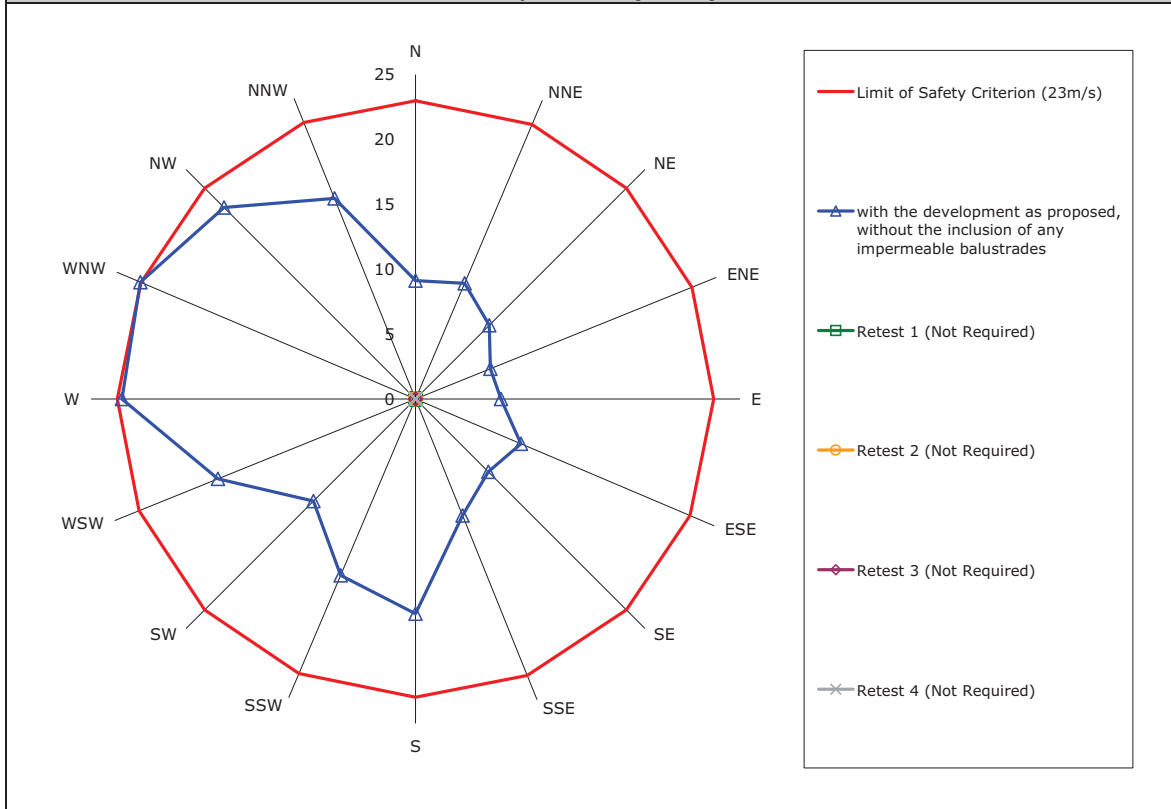


# Measured Wind Speeds at Point 66

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

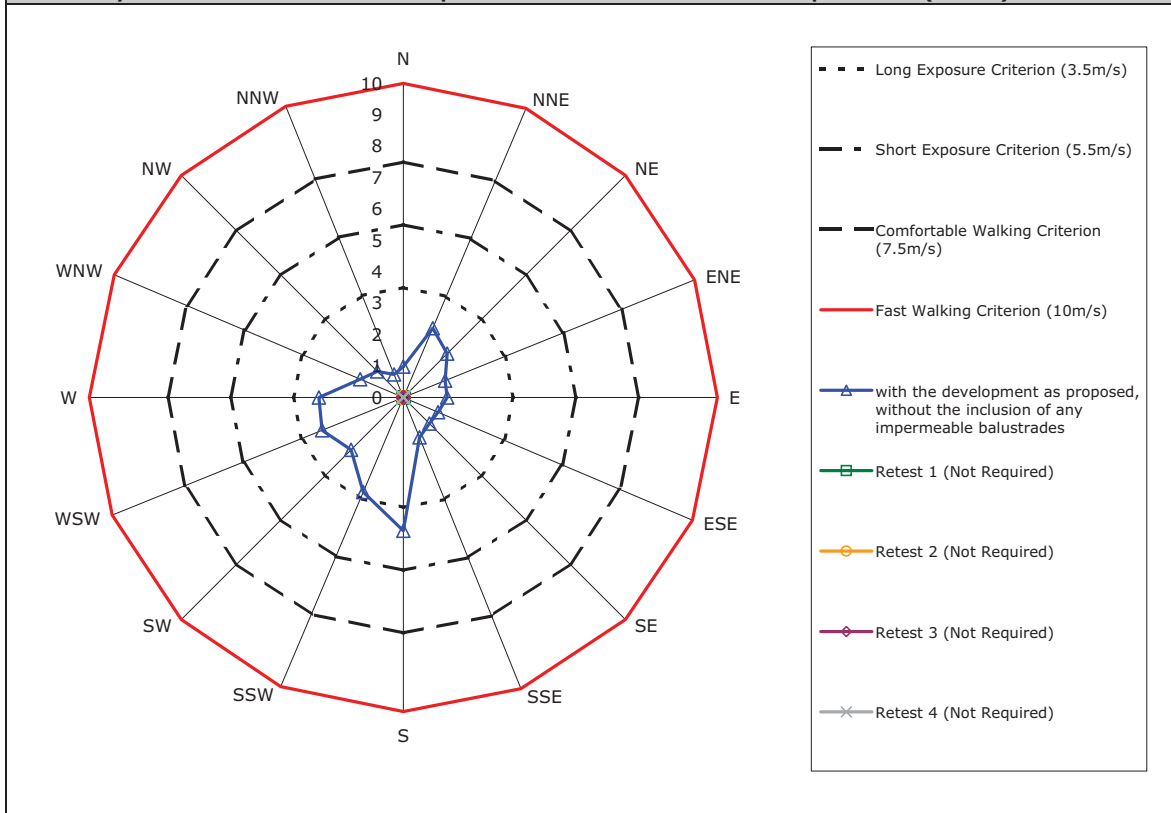


## Annual Maximum Gust Wind Speeds (m/s)

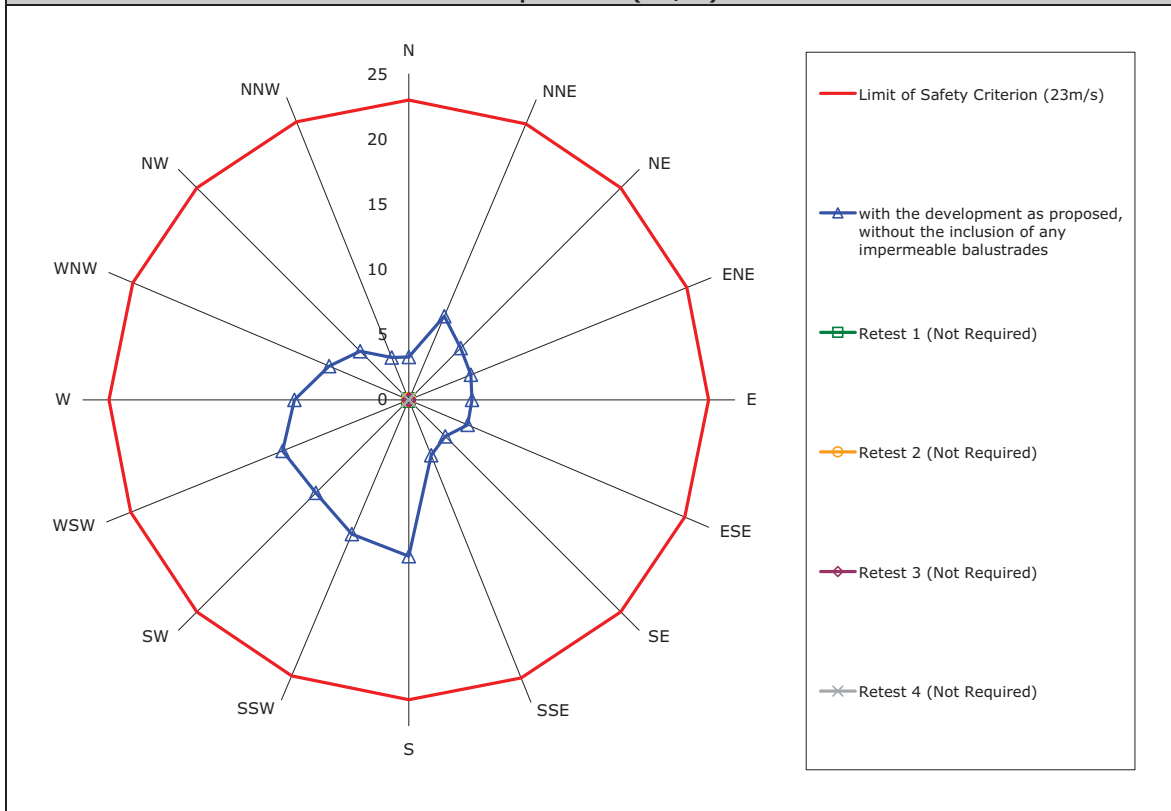


# Measured Wind Speeds at Point 67

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

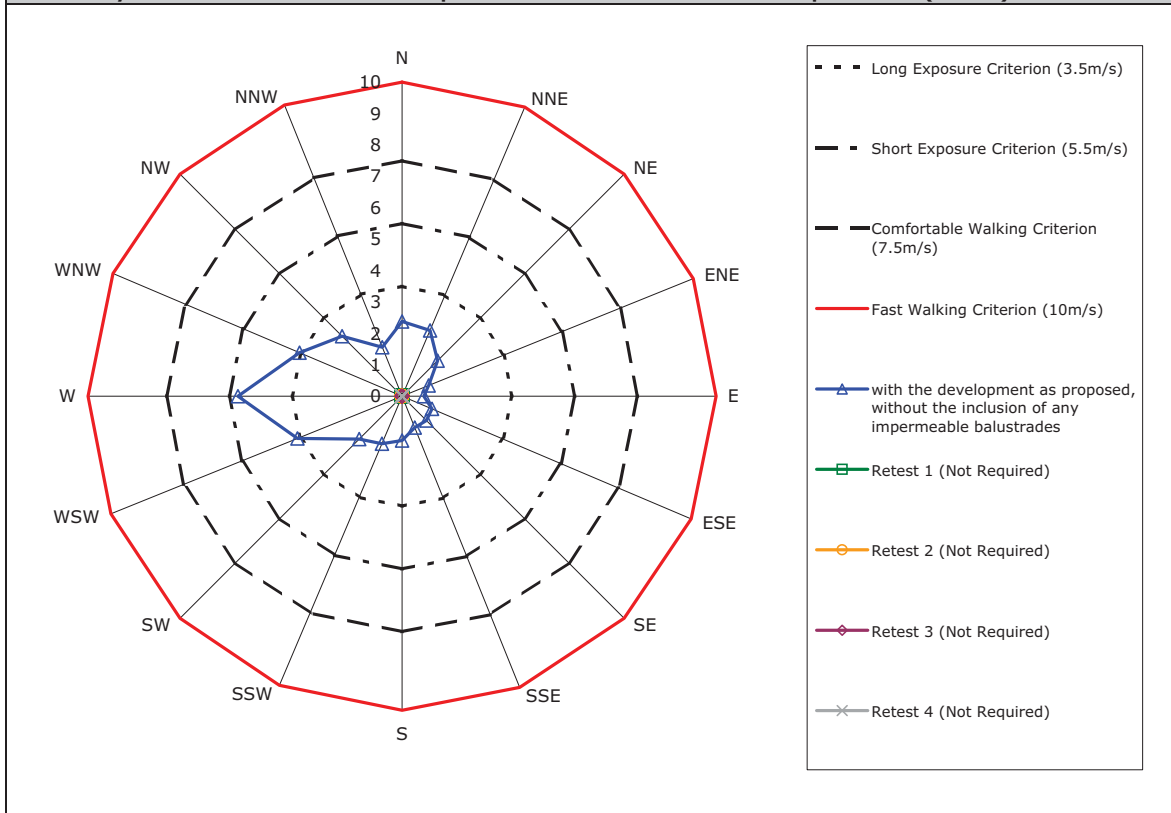


## Annual Maximum Gust Wind Speeds (m/s)

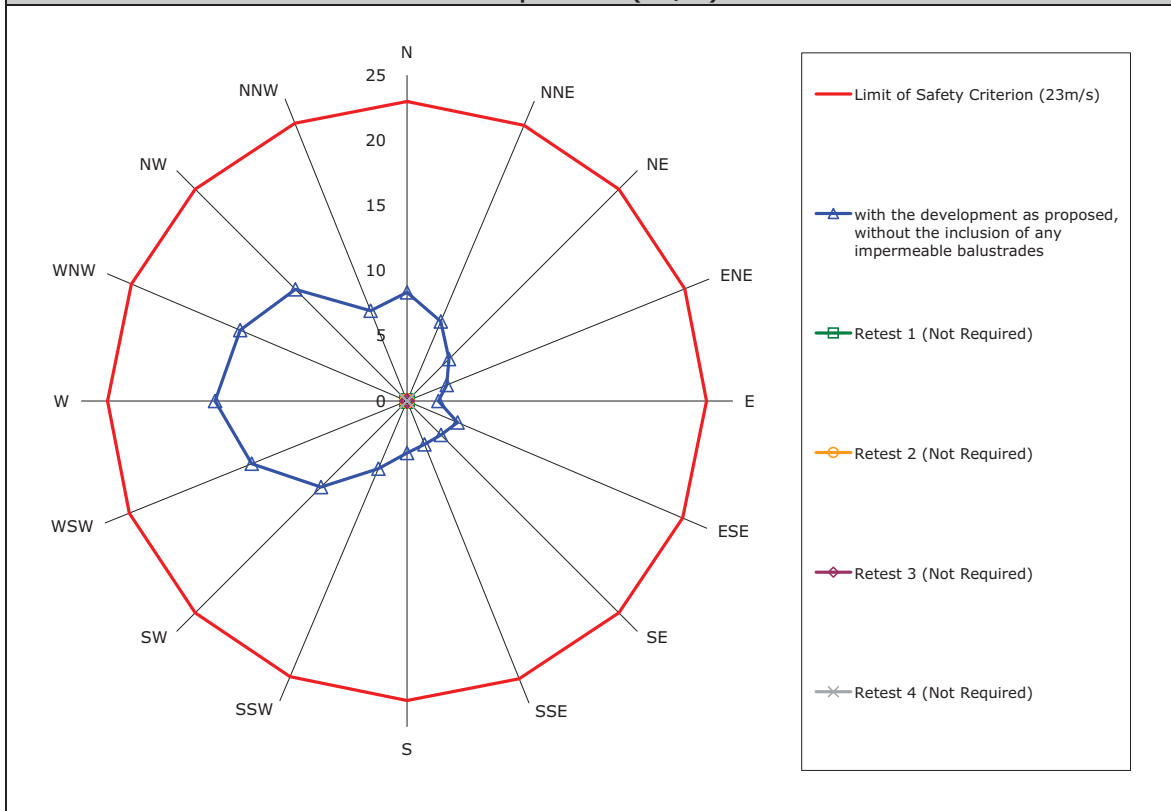


# Measured Wind Speeds at Point 68

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

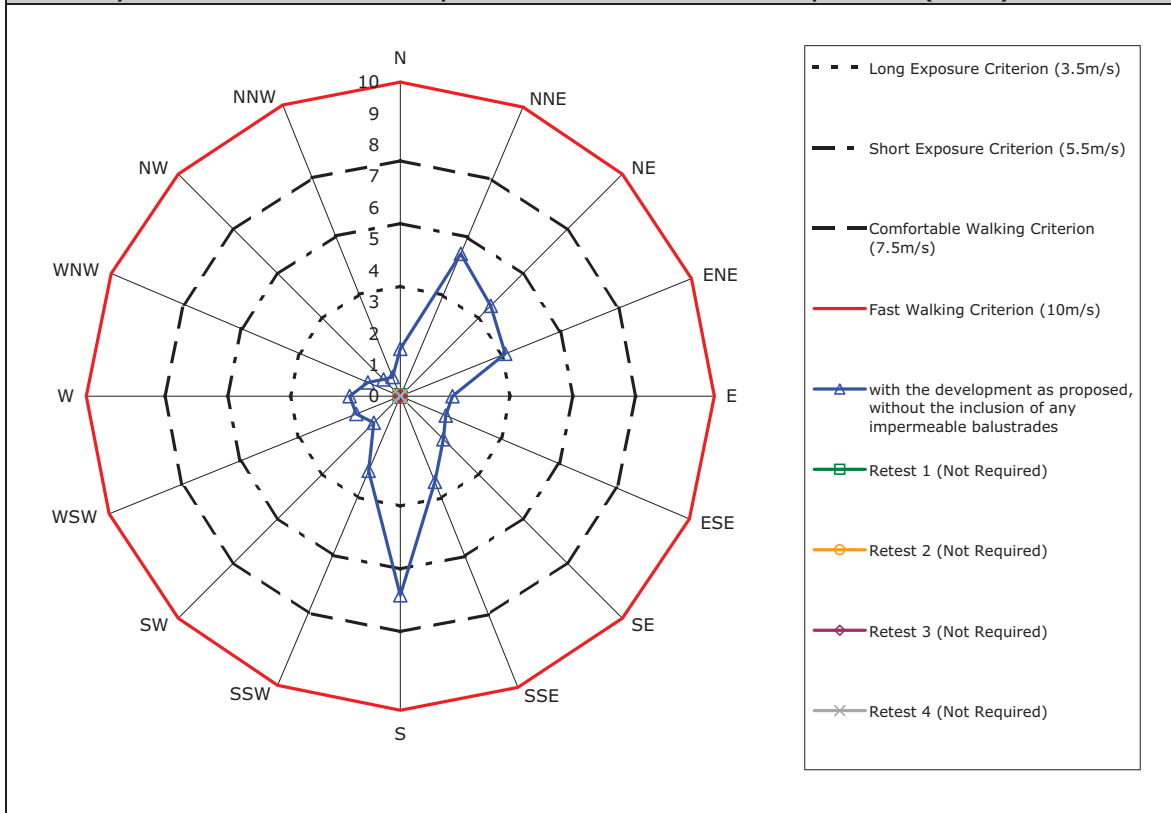


## Annual Maximum Gust Wind Speeds (m/s)

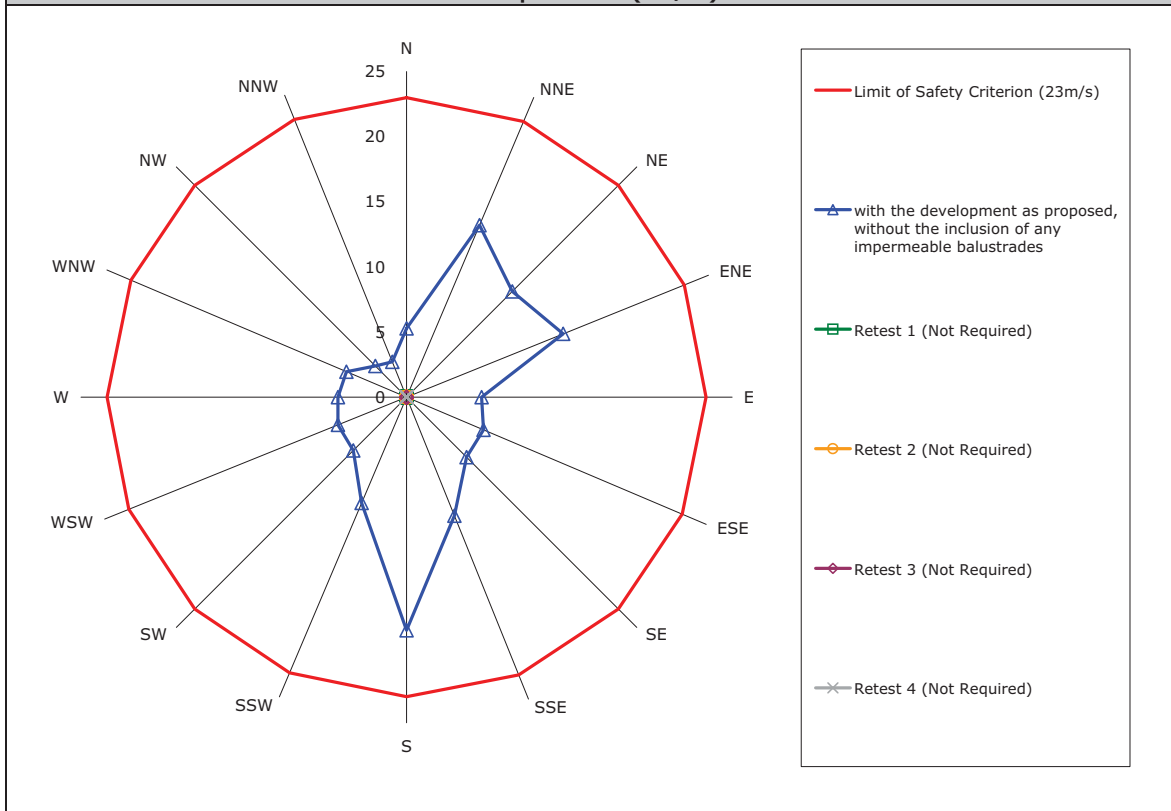


# Measured Wind Speeds at Point 69

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

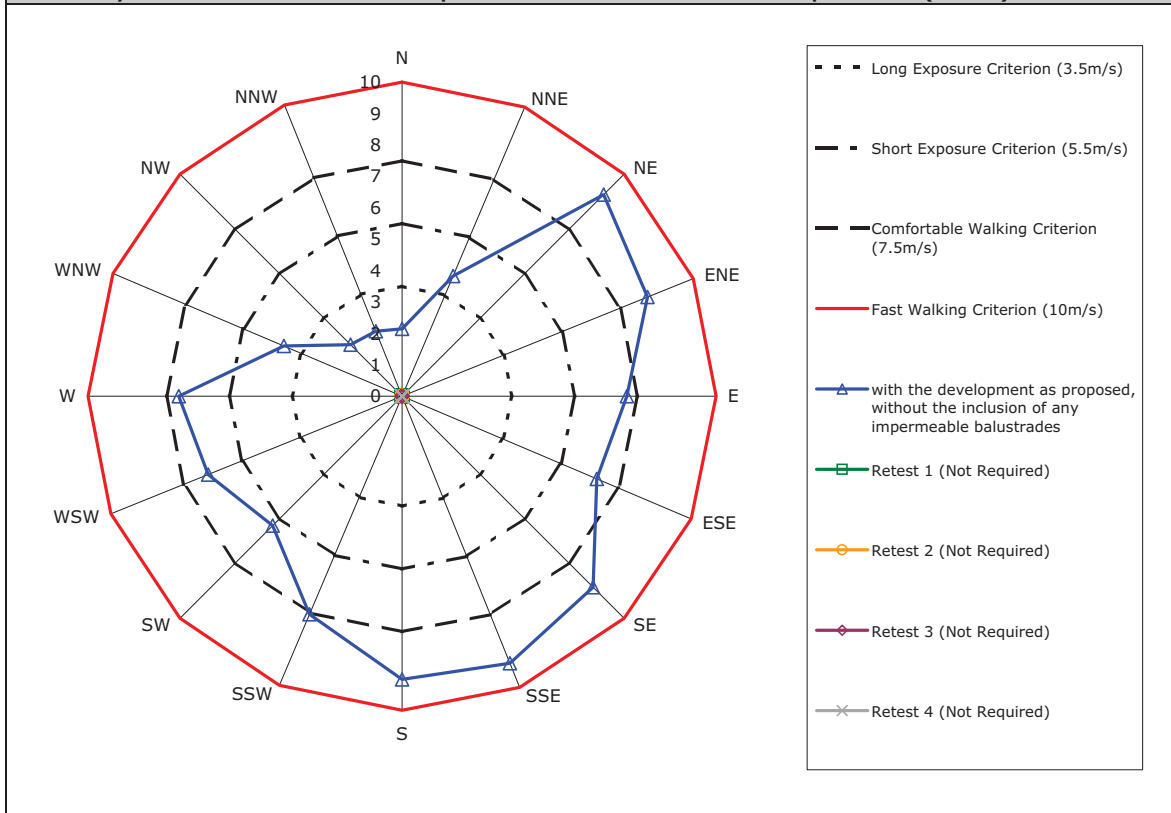


## Annual Maximum Gust Wind Speeds (m/s)

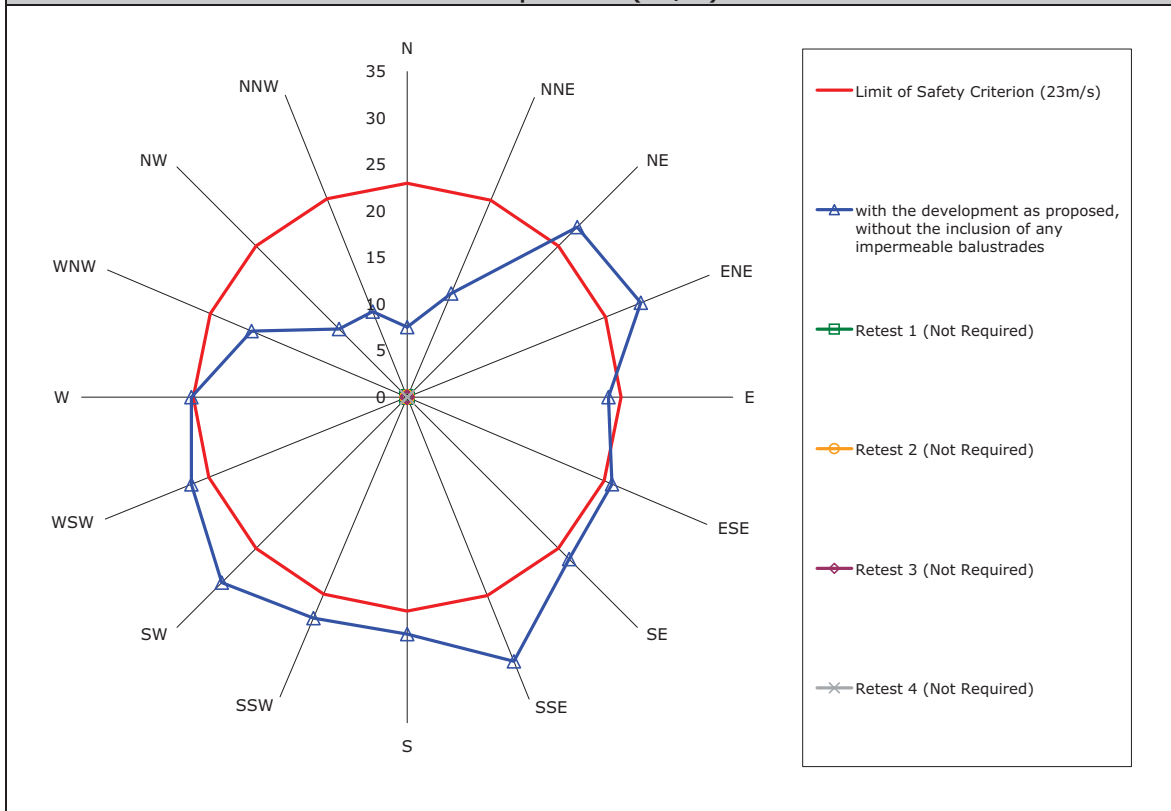


# Measured Wind Speeds at Point 70

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

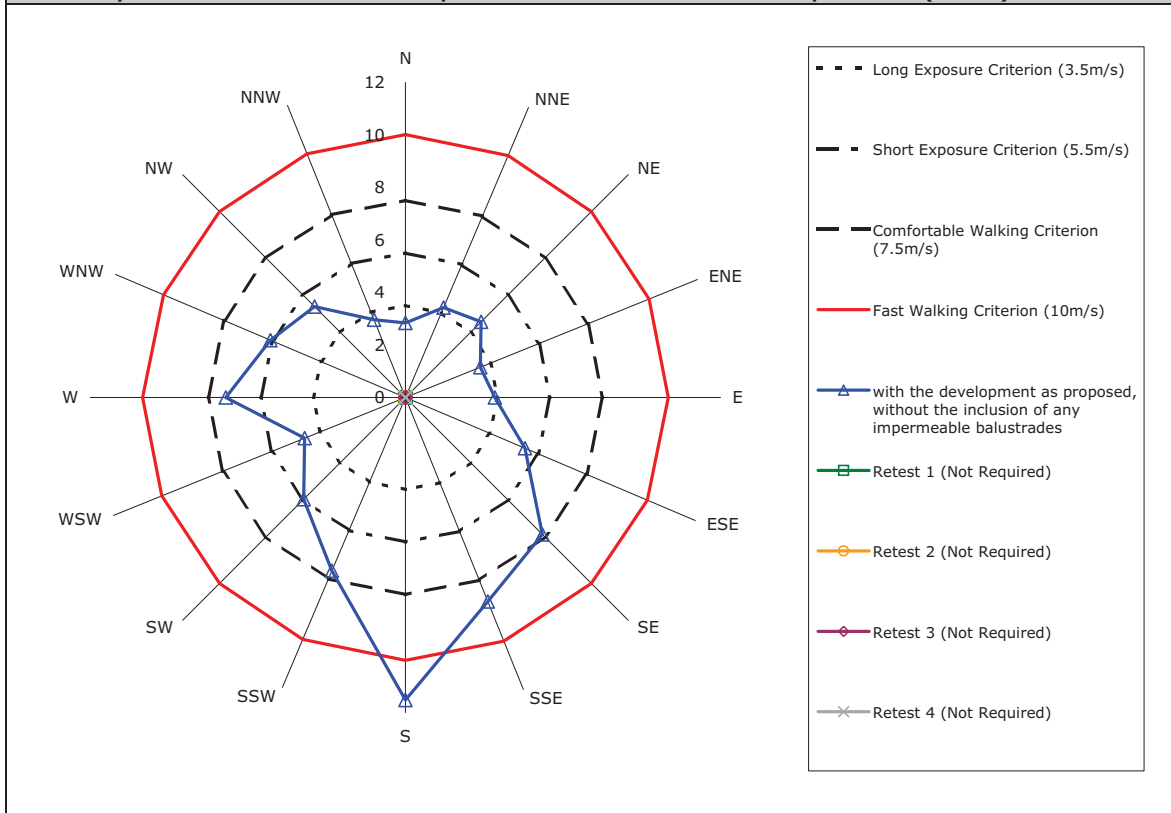


## Annual Maximum Gust Wind Speeds (m/s)

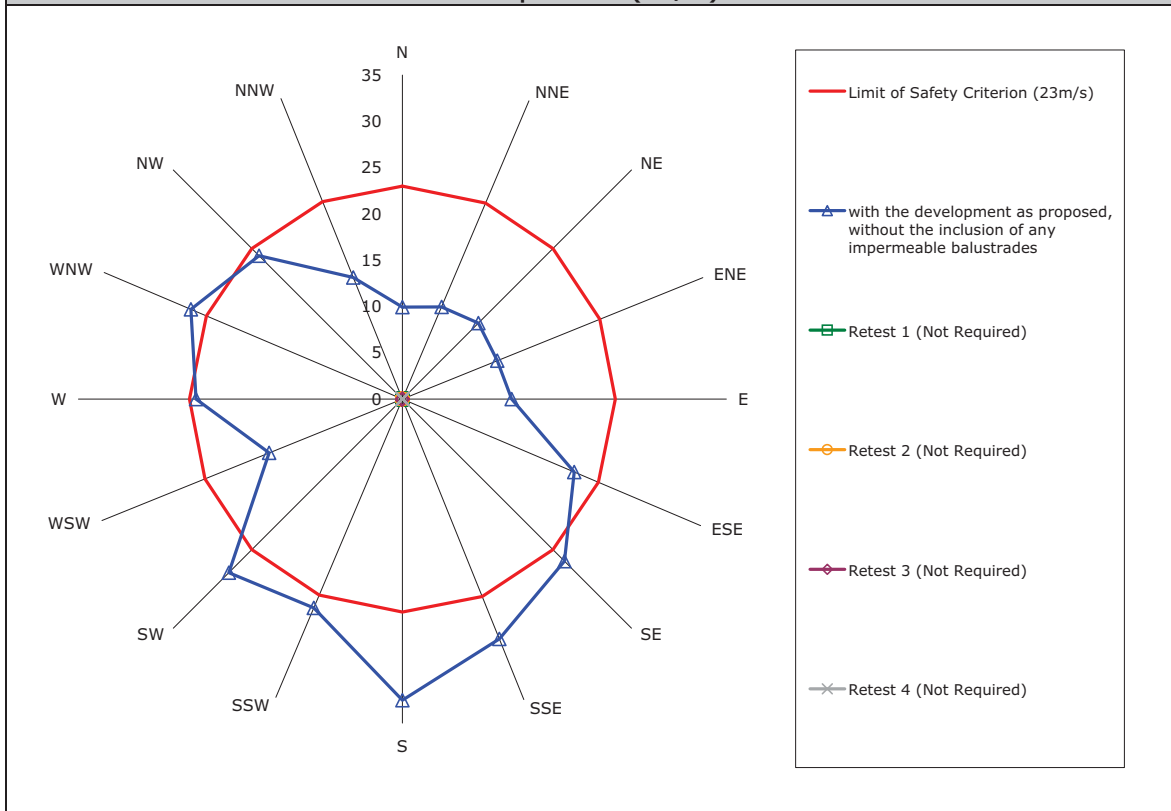


# Measured Wind Speeds at Point 71

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

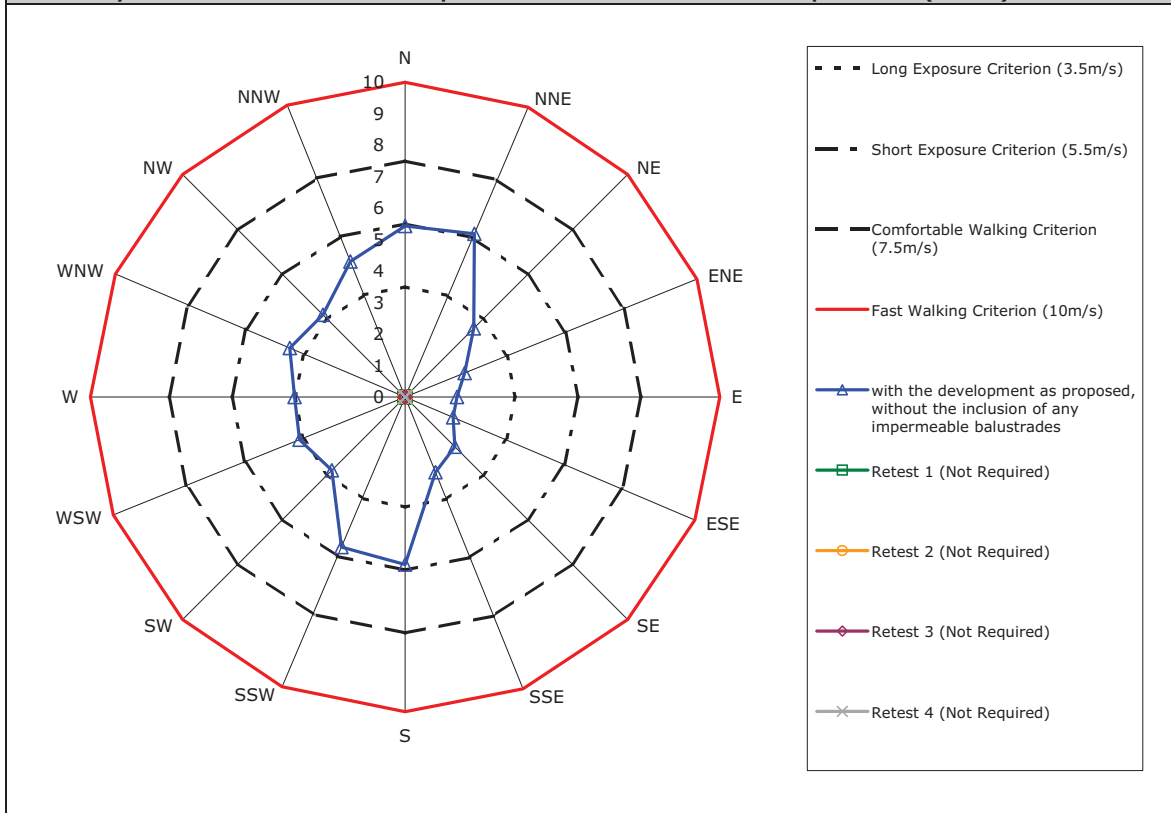


## Annual Maximum Gust Wind Speeds (m/s)

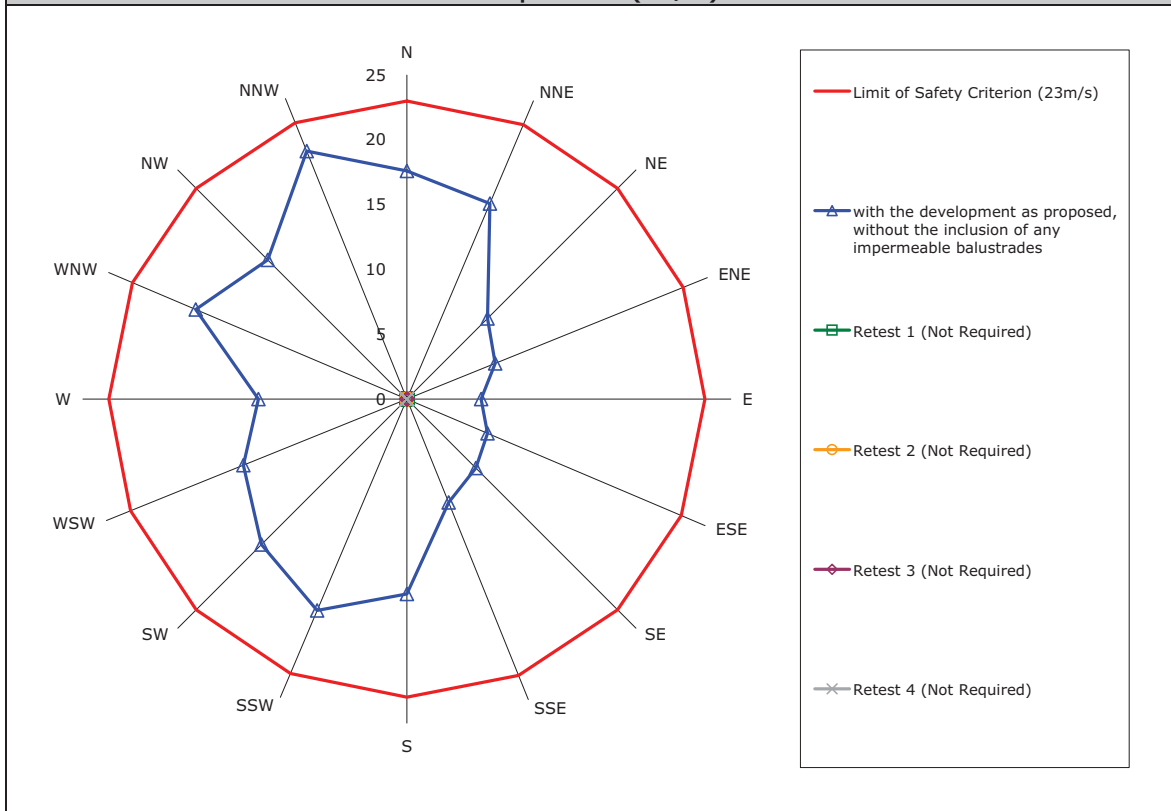


# Measured Wind Speeds at Point 72

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

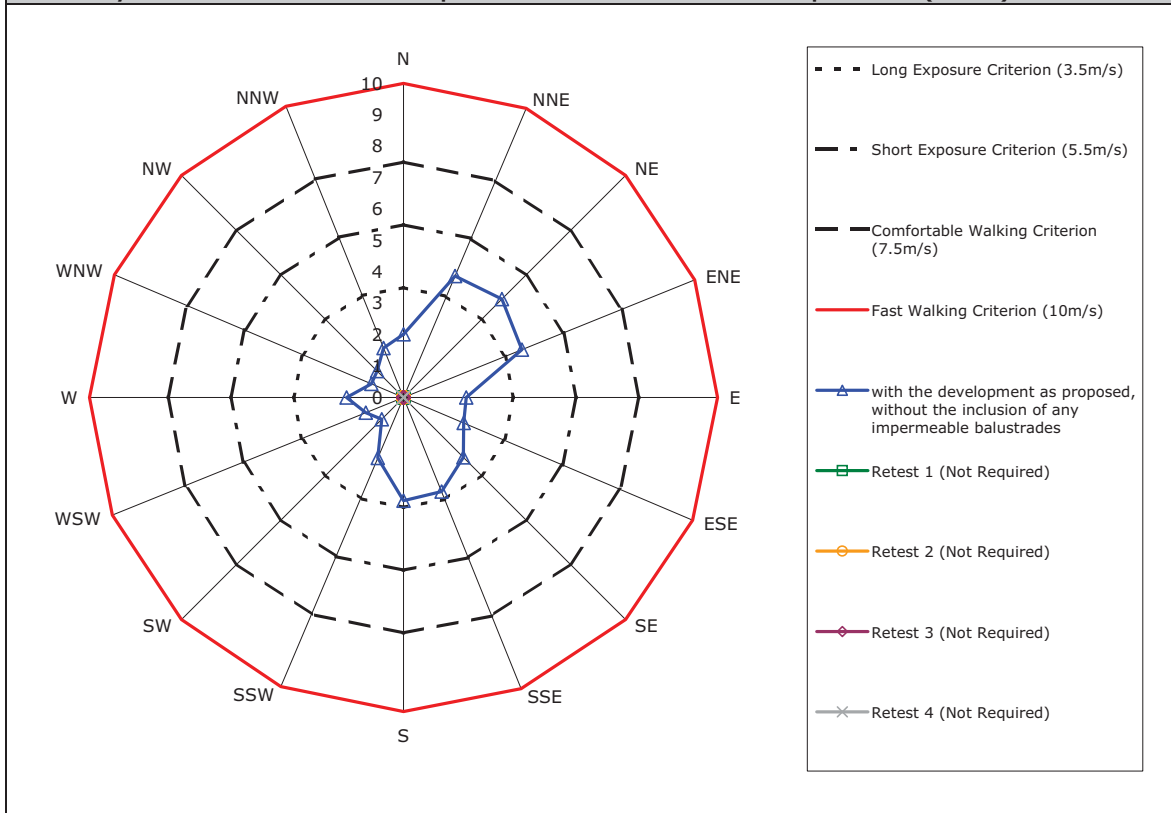


## Annual Maximum Gust Wind Speeds (m/s)

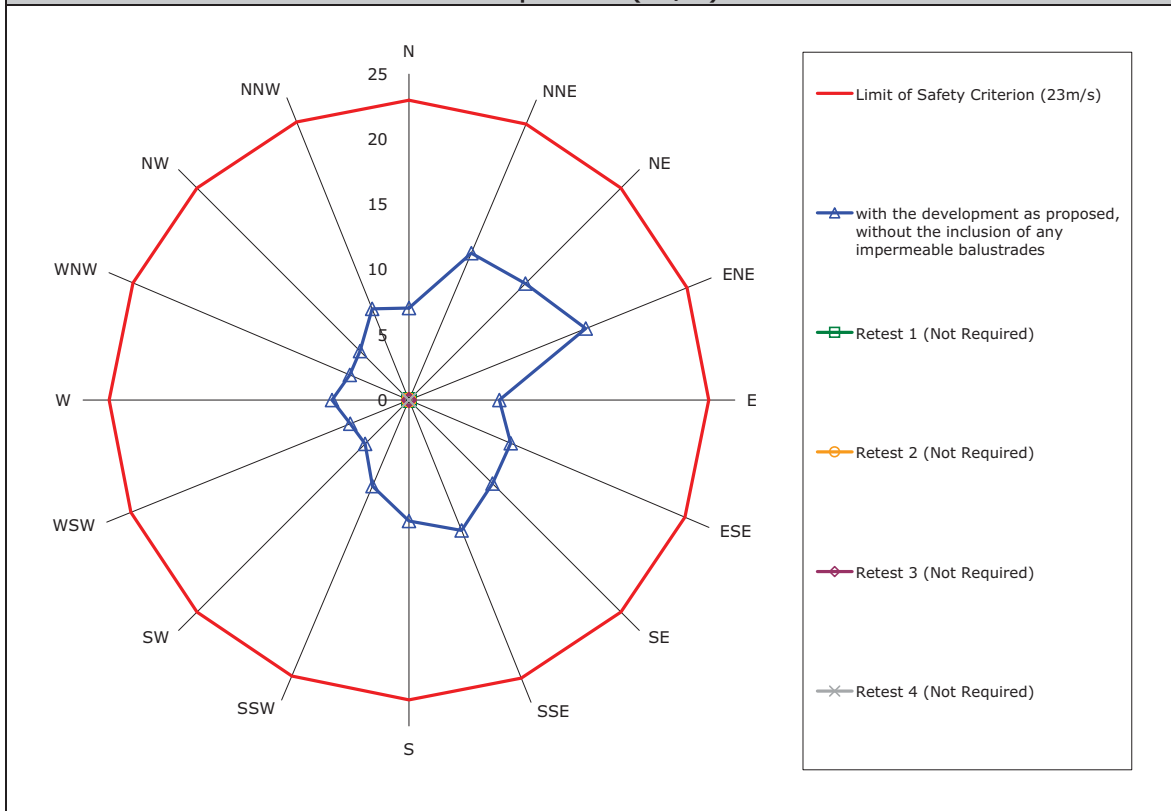


# Measured Wind Speeds at Point 73

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)



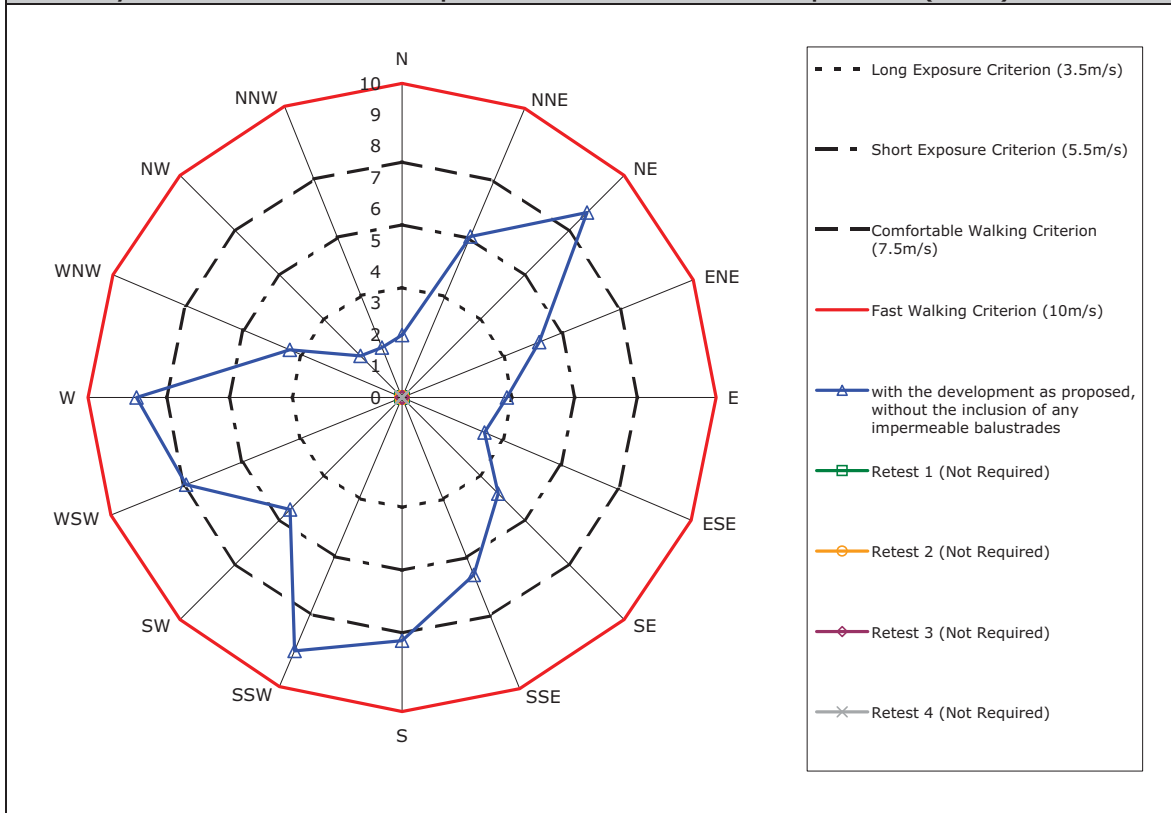
## Annual Maximum Gust Wind Speeds (m/s)



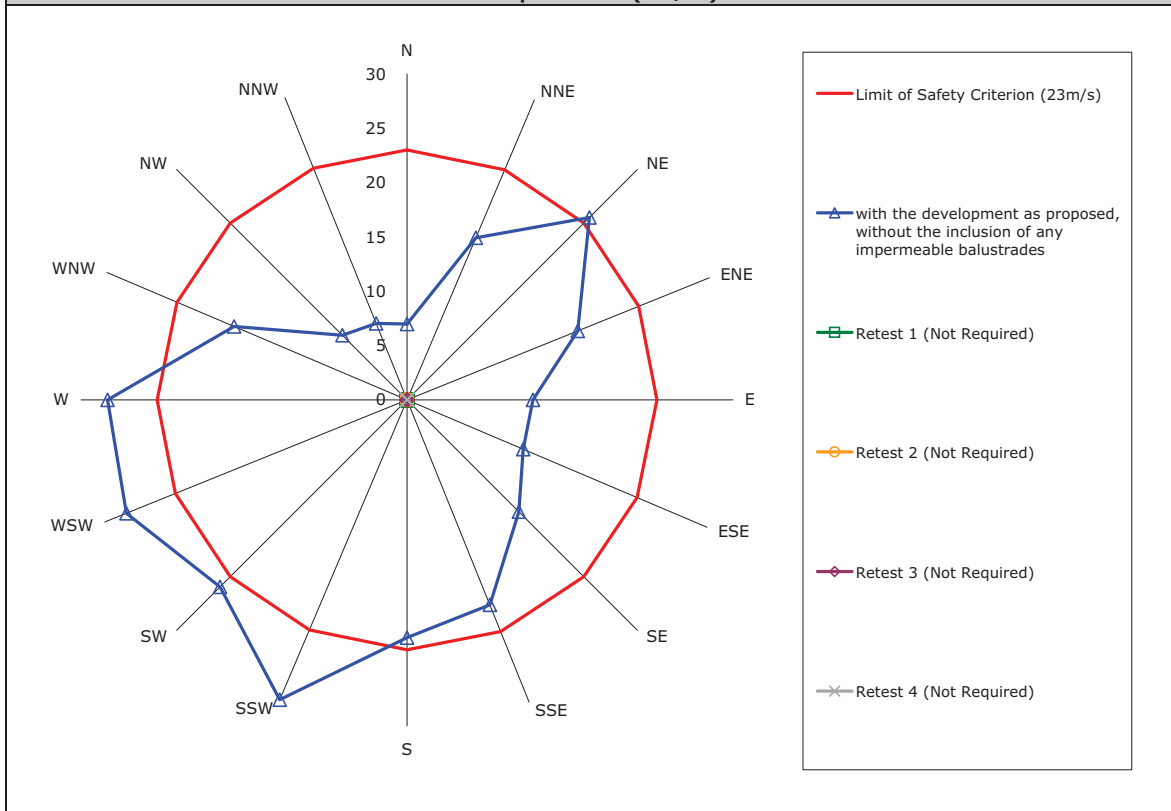


# Measured Wind Speeds at Point 74

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

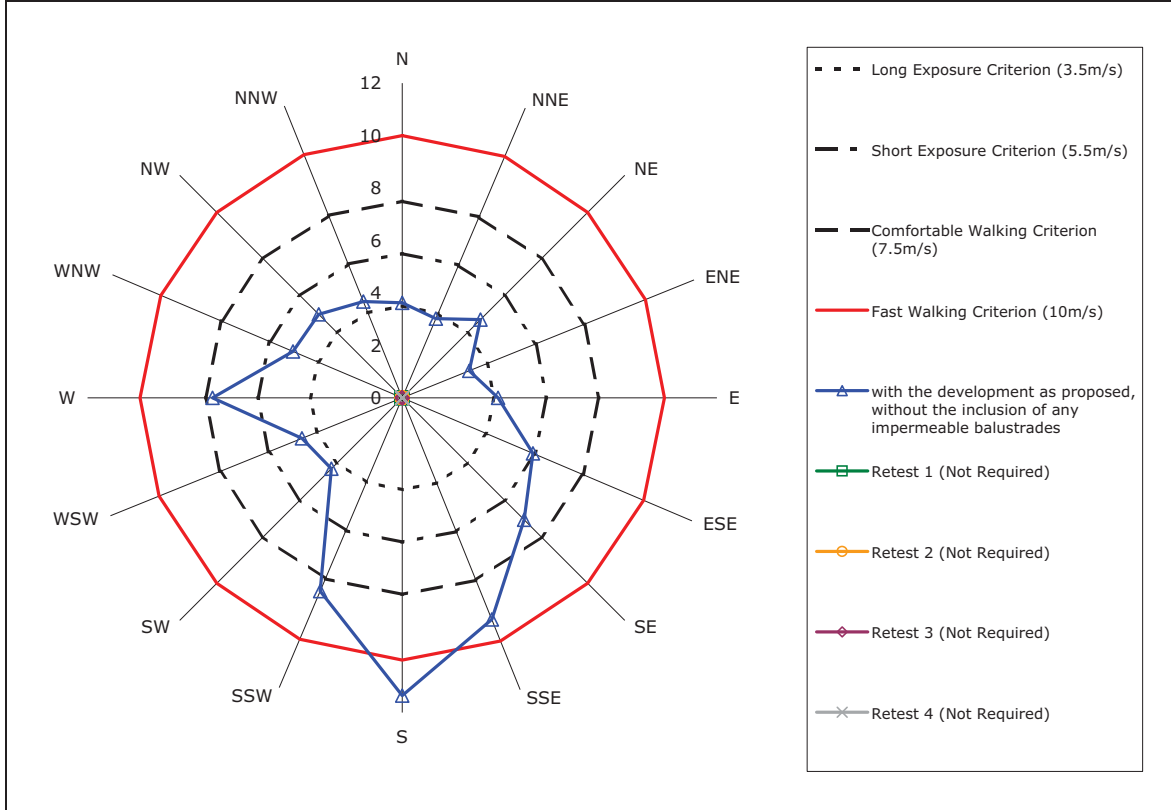


## Annual Maximum Gust Wind Speeds (m/s)

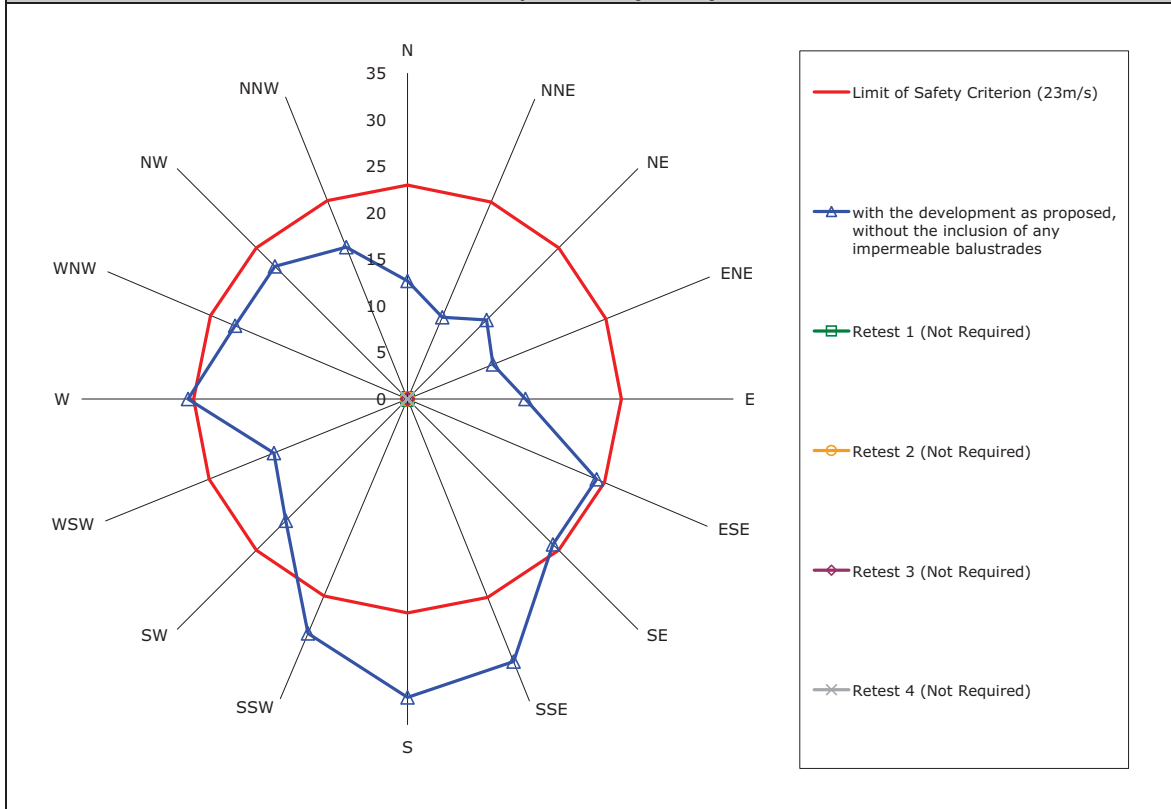


# Measured Wind Speeds at Point 75

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

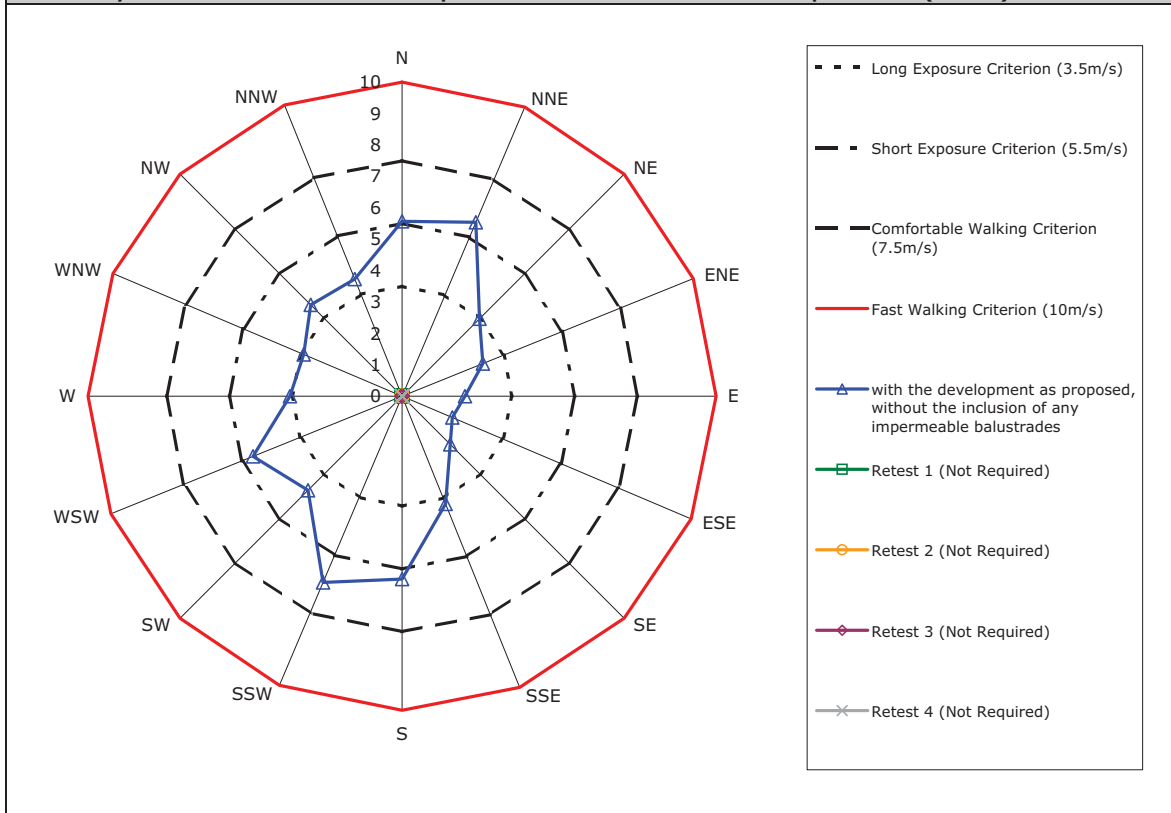


## Annual Maximum Gust Wind Speeds (m/s)

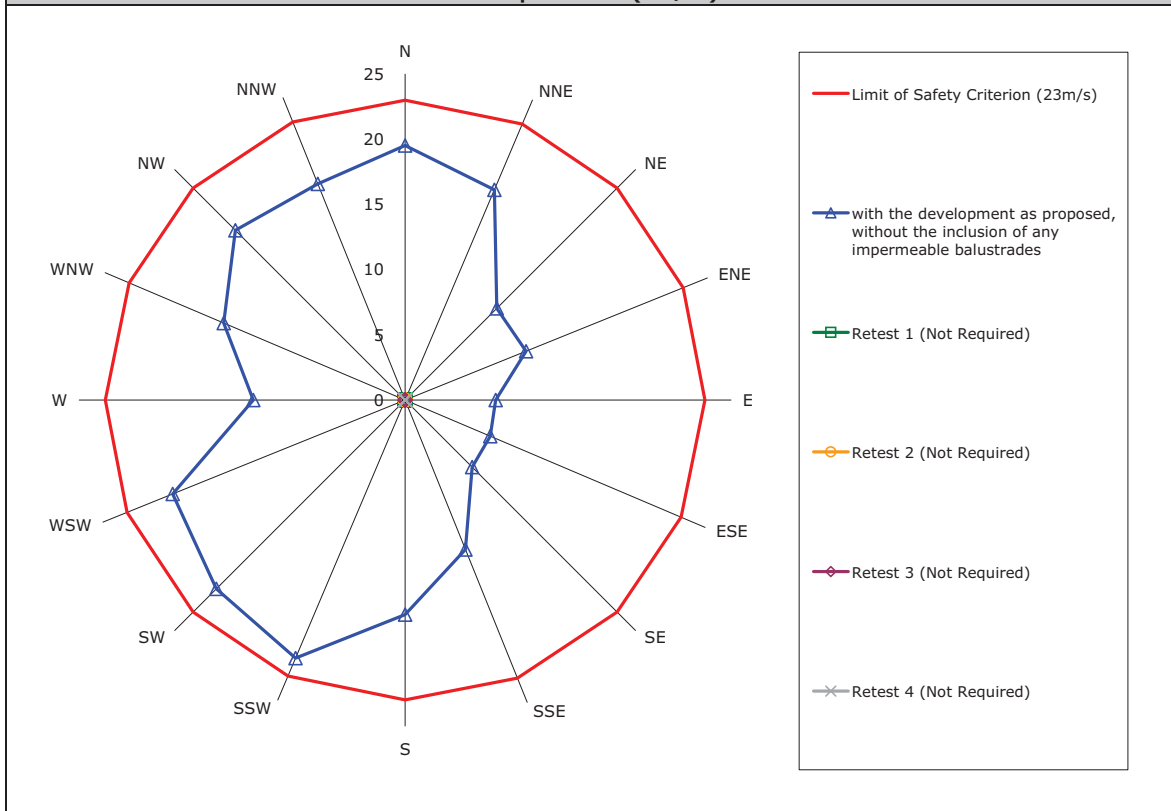


# Measured Wind Speeds at Point 76

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

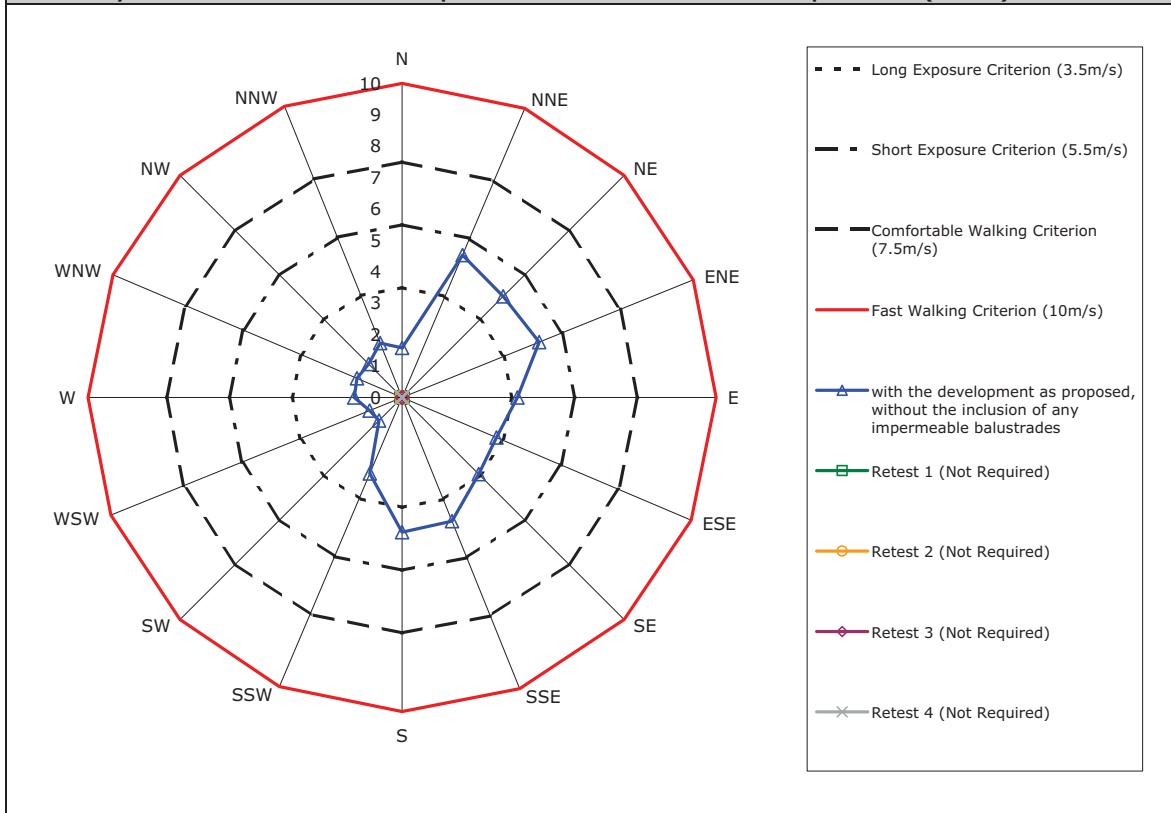


## Annual Maximum Gust Wind Speeds (m/s)

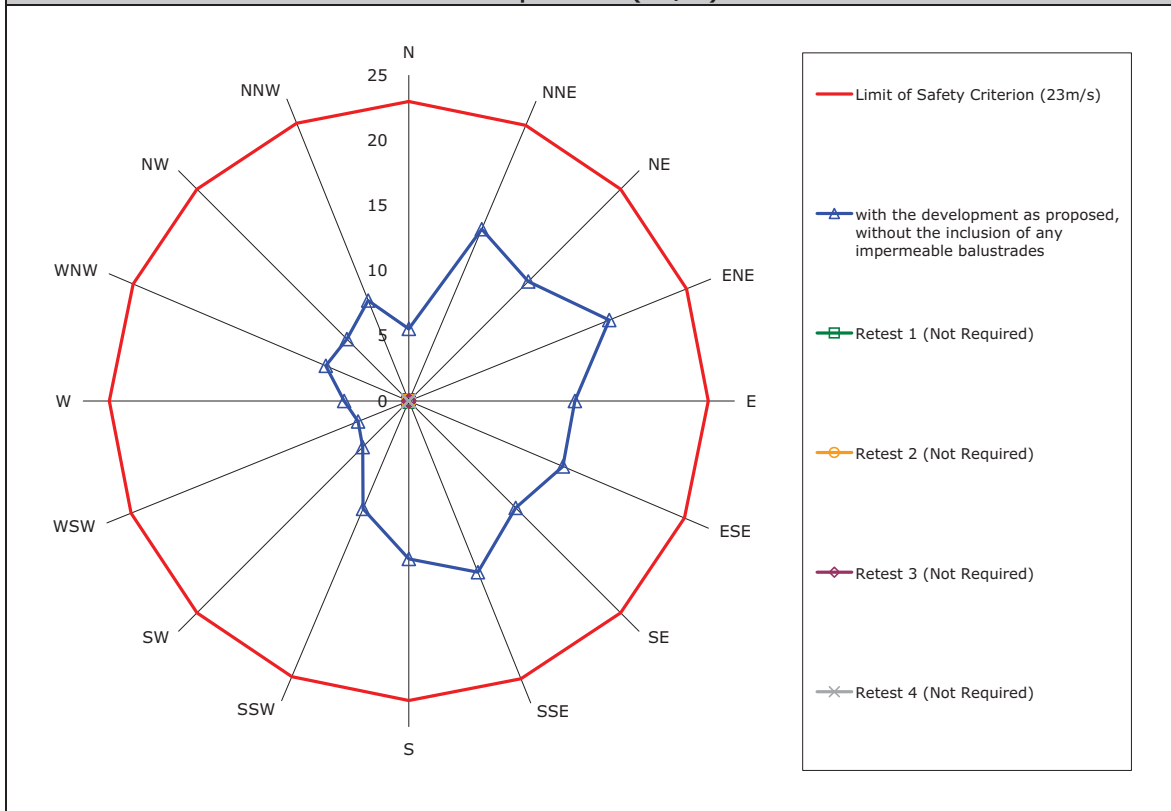


# Measured Wind Speeds at Point 77

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

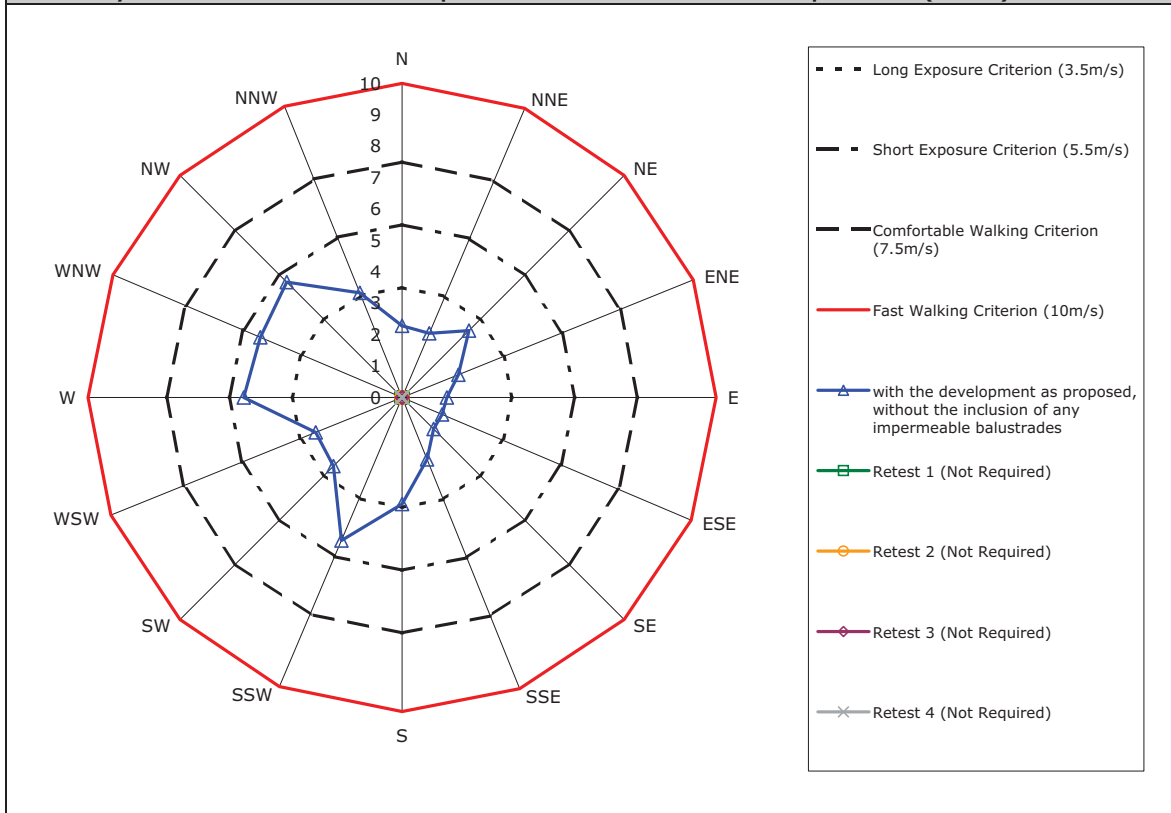


## Annual Maximum Gust Wind Speeds (m/s)

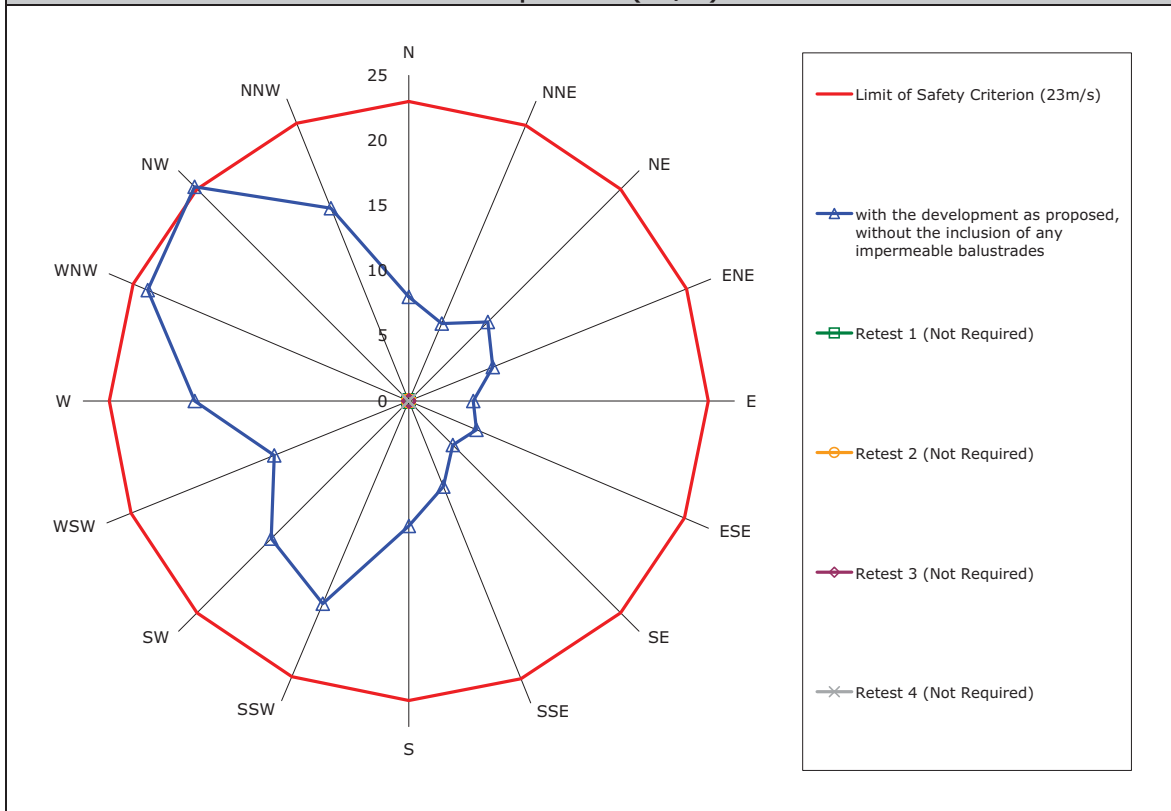


# Measured Wind Speeds at Point 78

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

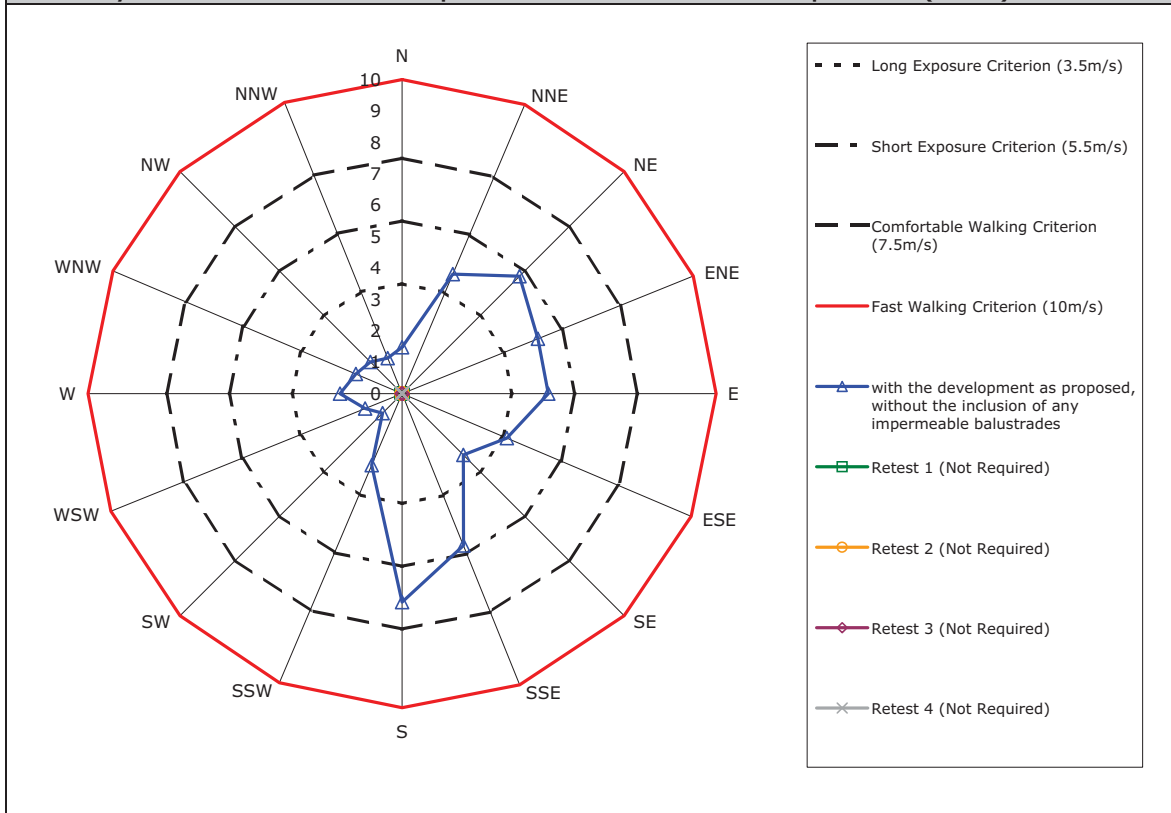


## Annual Maximum Gust Wind Speeds (m/s)

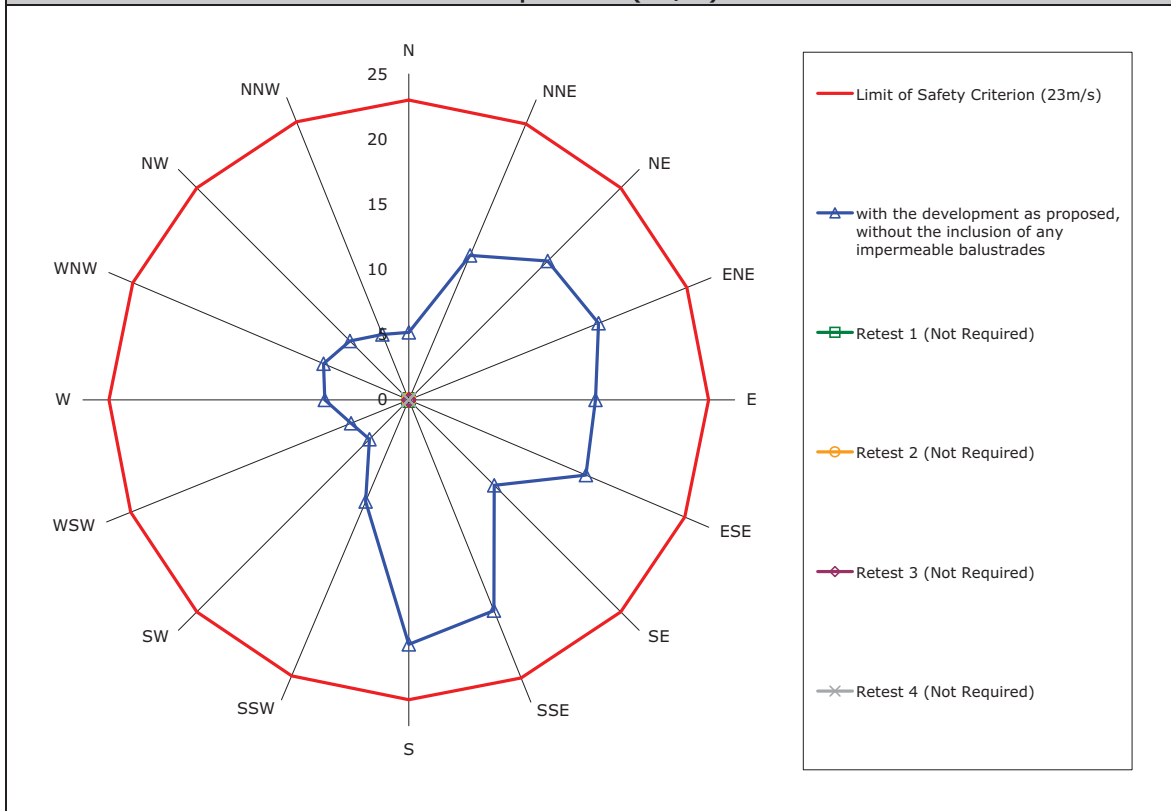


# Measured Wind Speeds at Point 79

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)

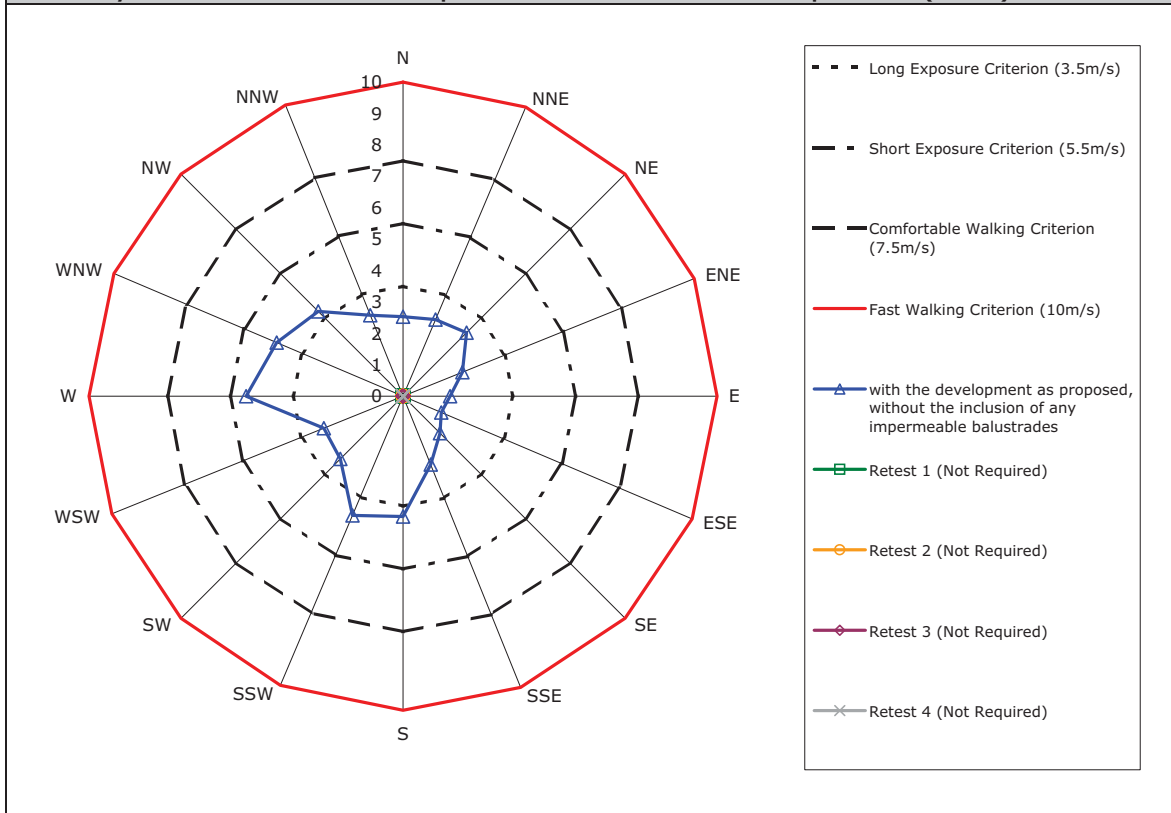


## Annual Maximum Gust Wind Speeds (m/s)

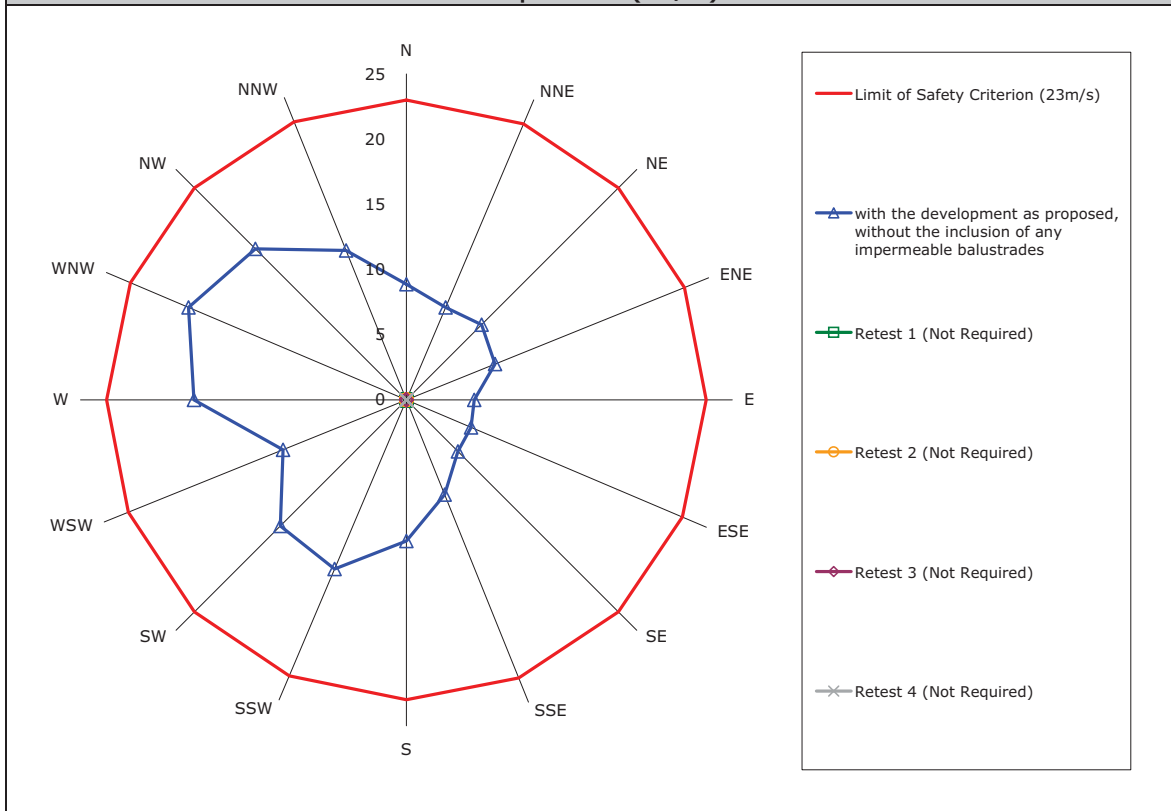


# Measured Wind Speeds at Point 80

## Weekly Maximum Gust Equivalent Mean Wind Speeds (m/s)



## Annual Maximum Gust Wind Speeds (m/s)

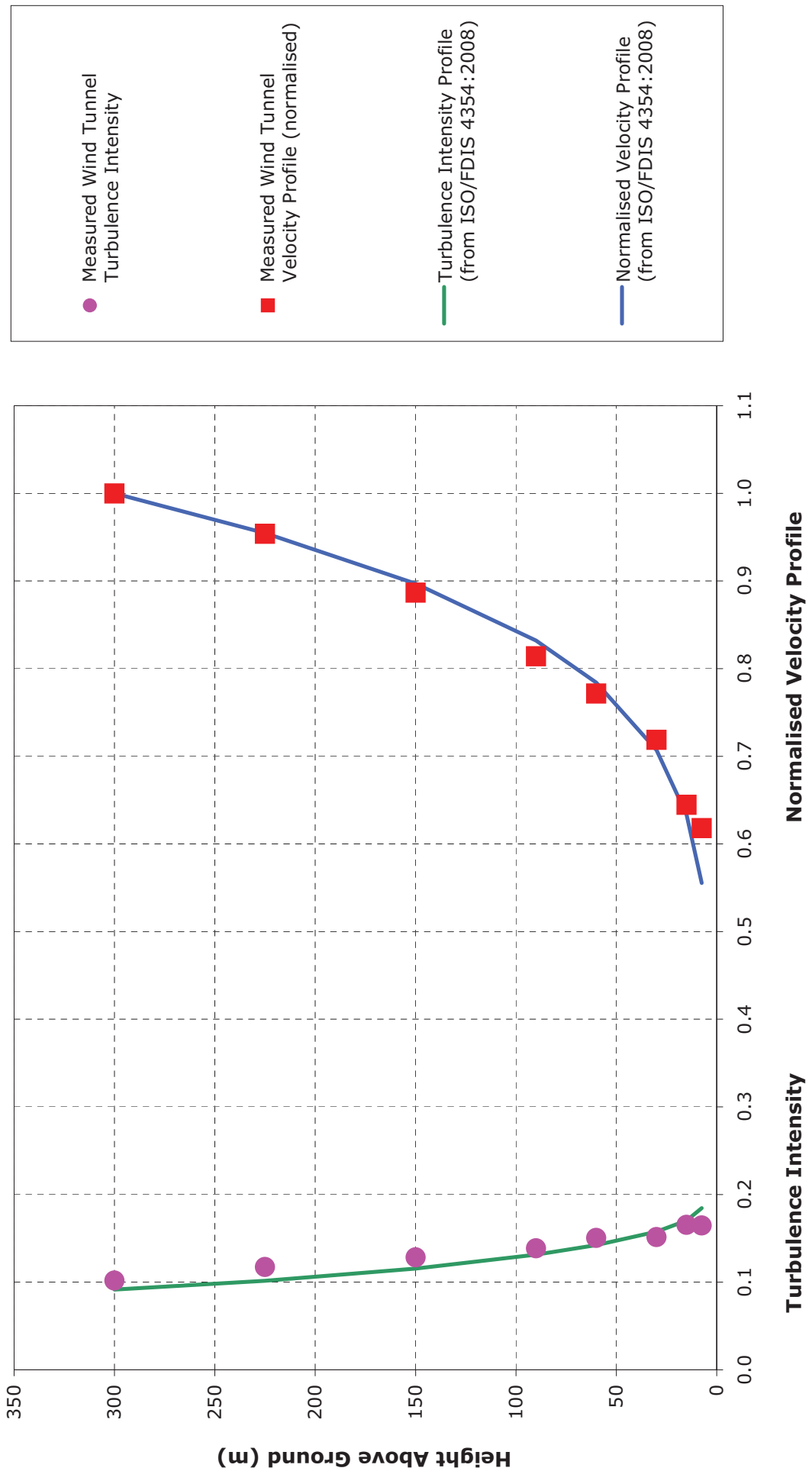


# **Appendix B**

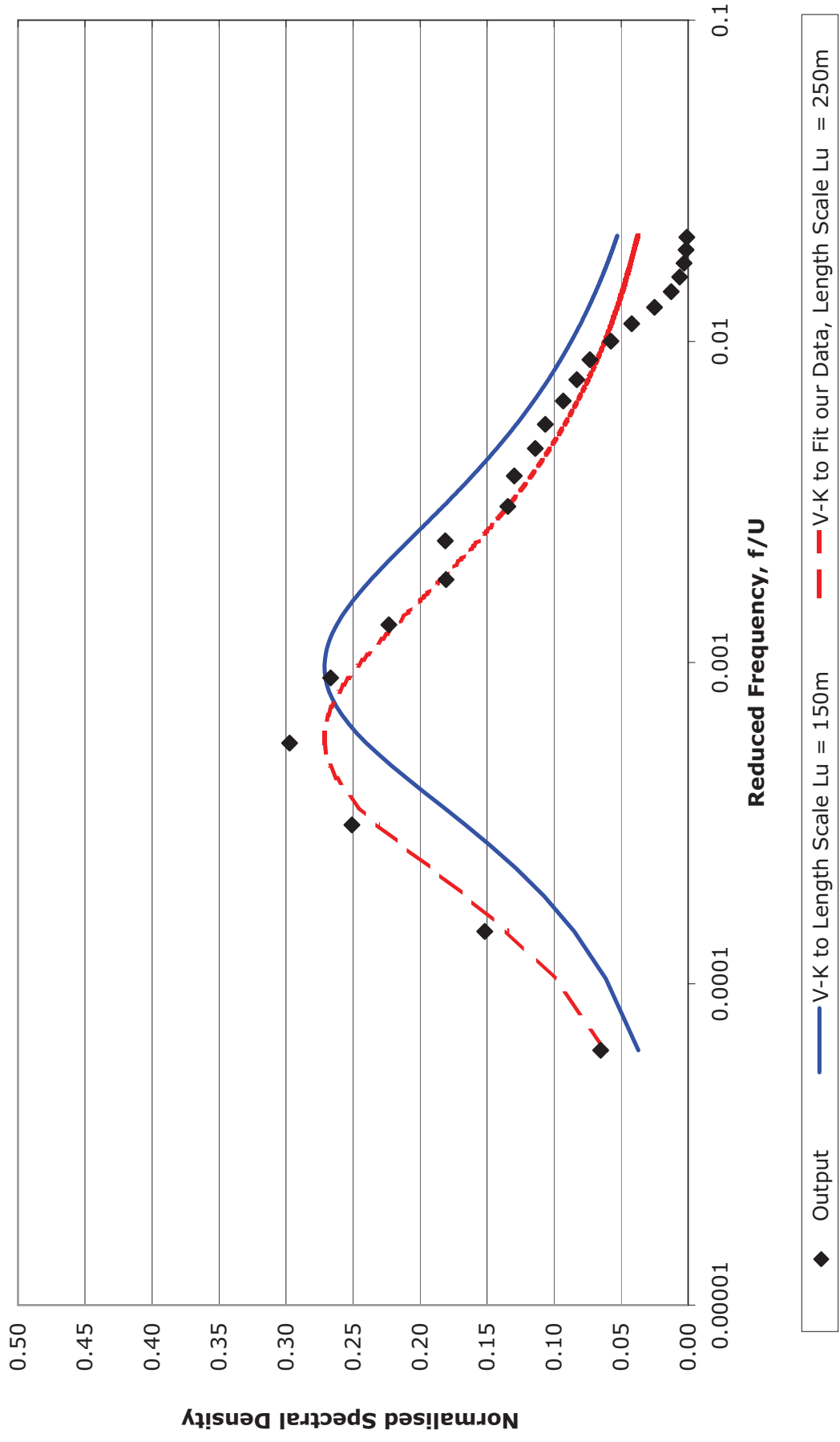
## Wind Tunnel Boundary Layer Profile



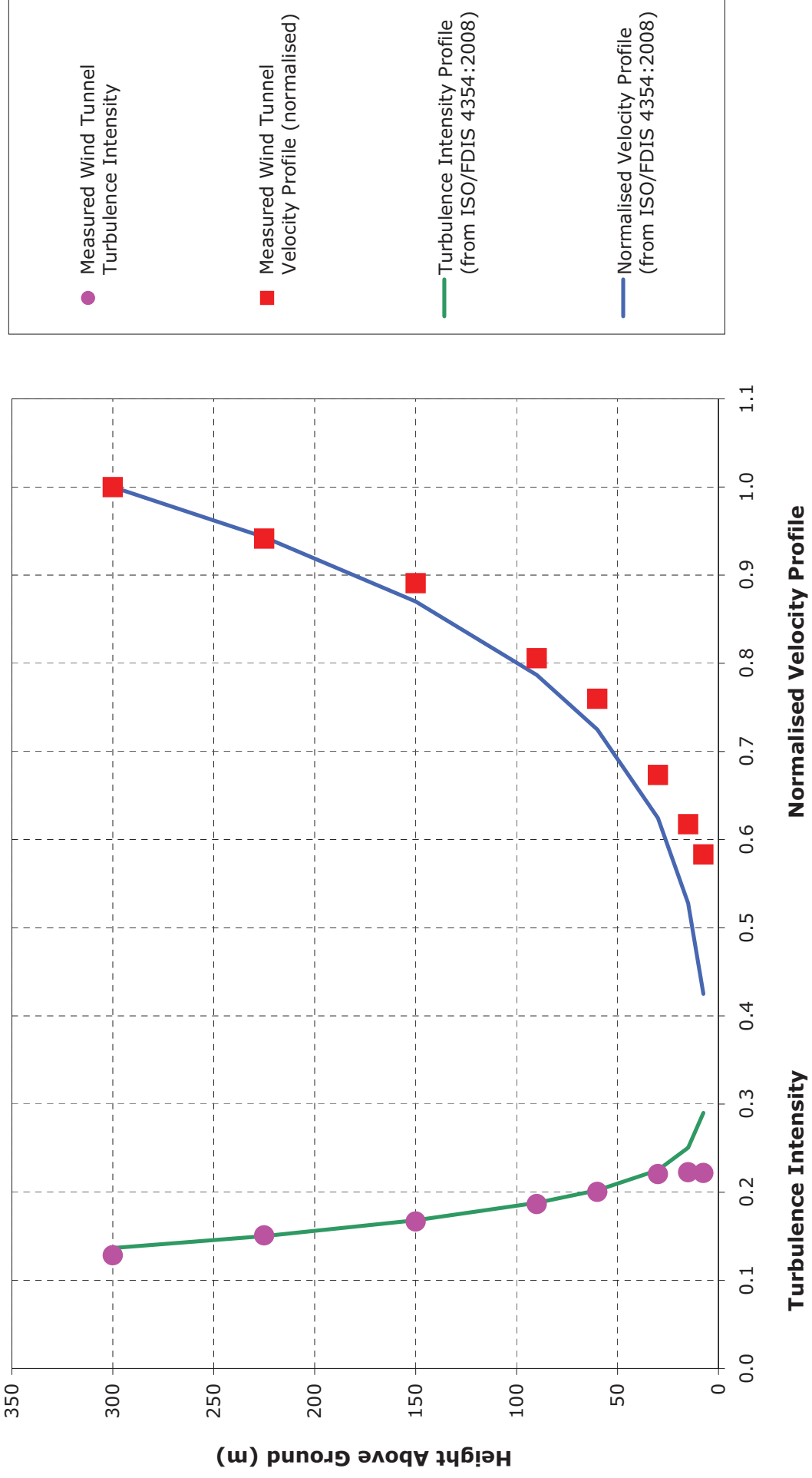
# Open Terrain Velocity and Turbulence Intensity Profile, 1:300 Scale



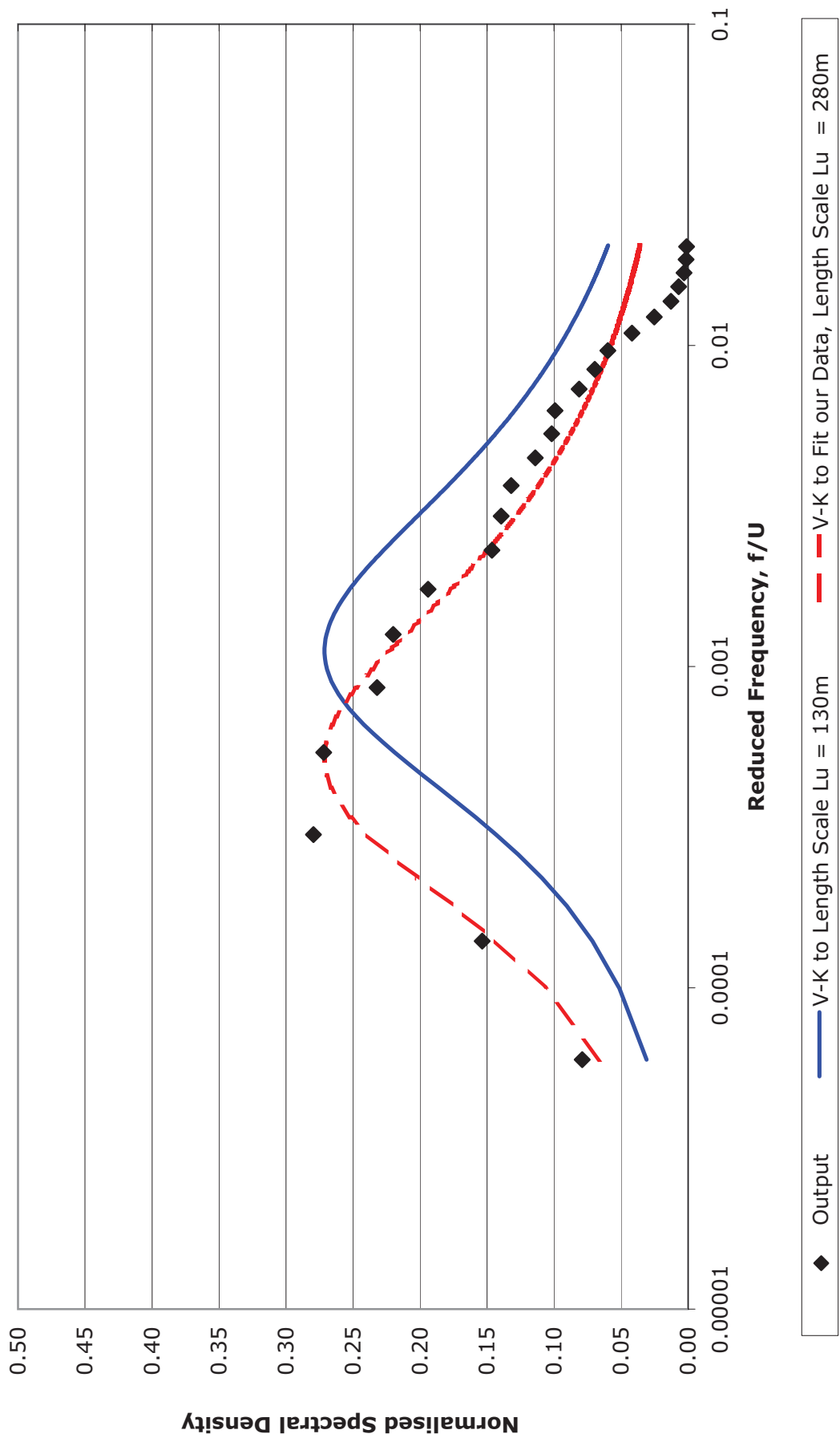
Open Terrain Spectral Density Plot for 1:300 Scale at 100m



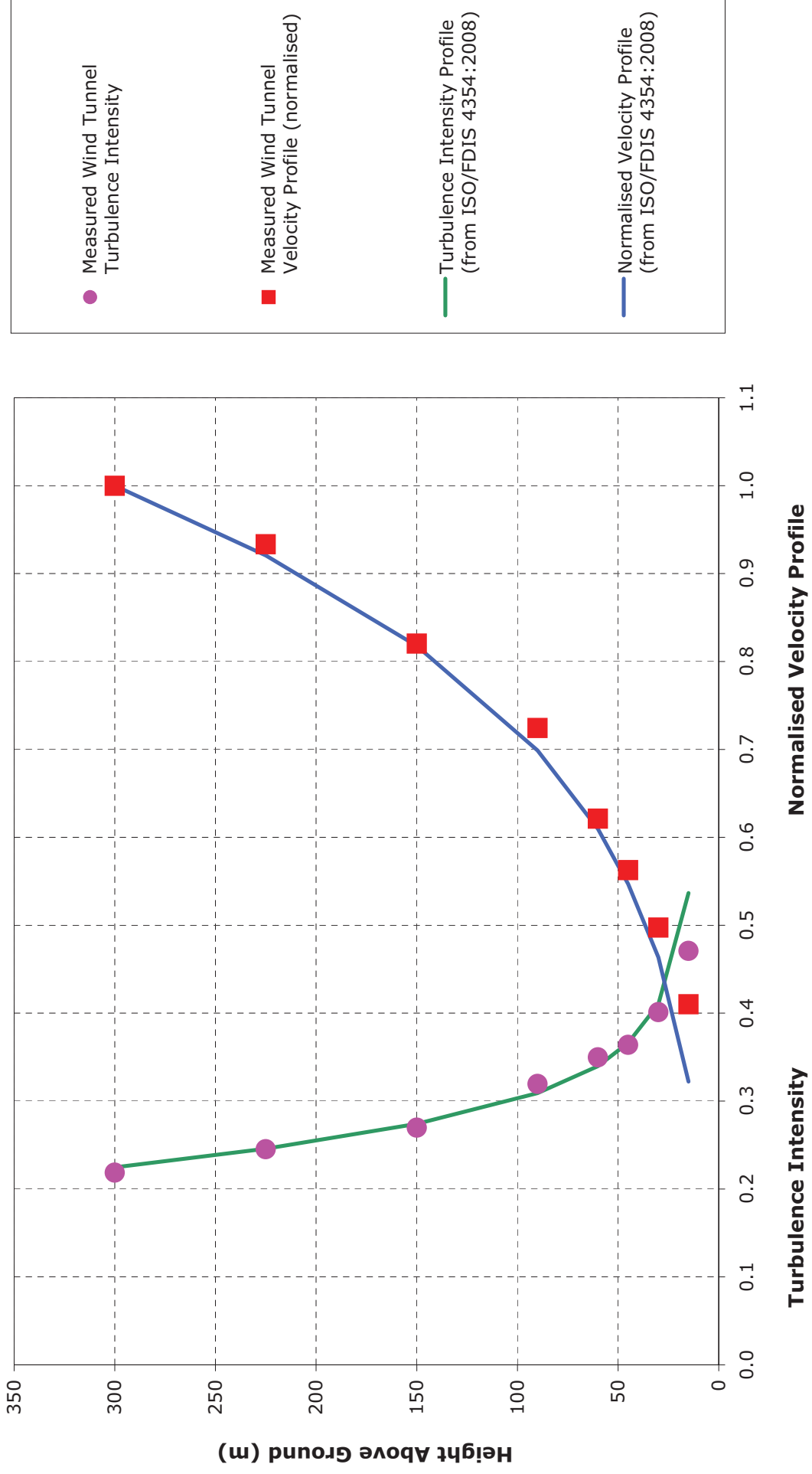
Suburban Terrain Velocity and Turbulence Intensity Profile, 1:300 Scale



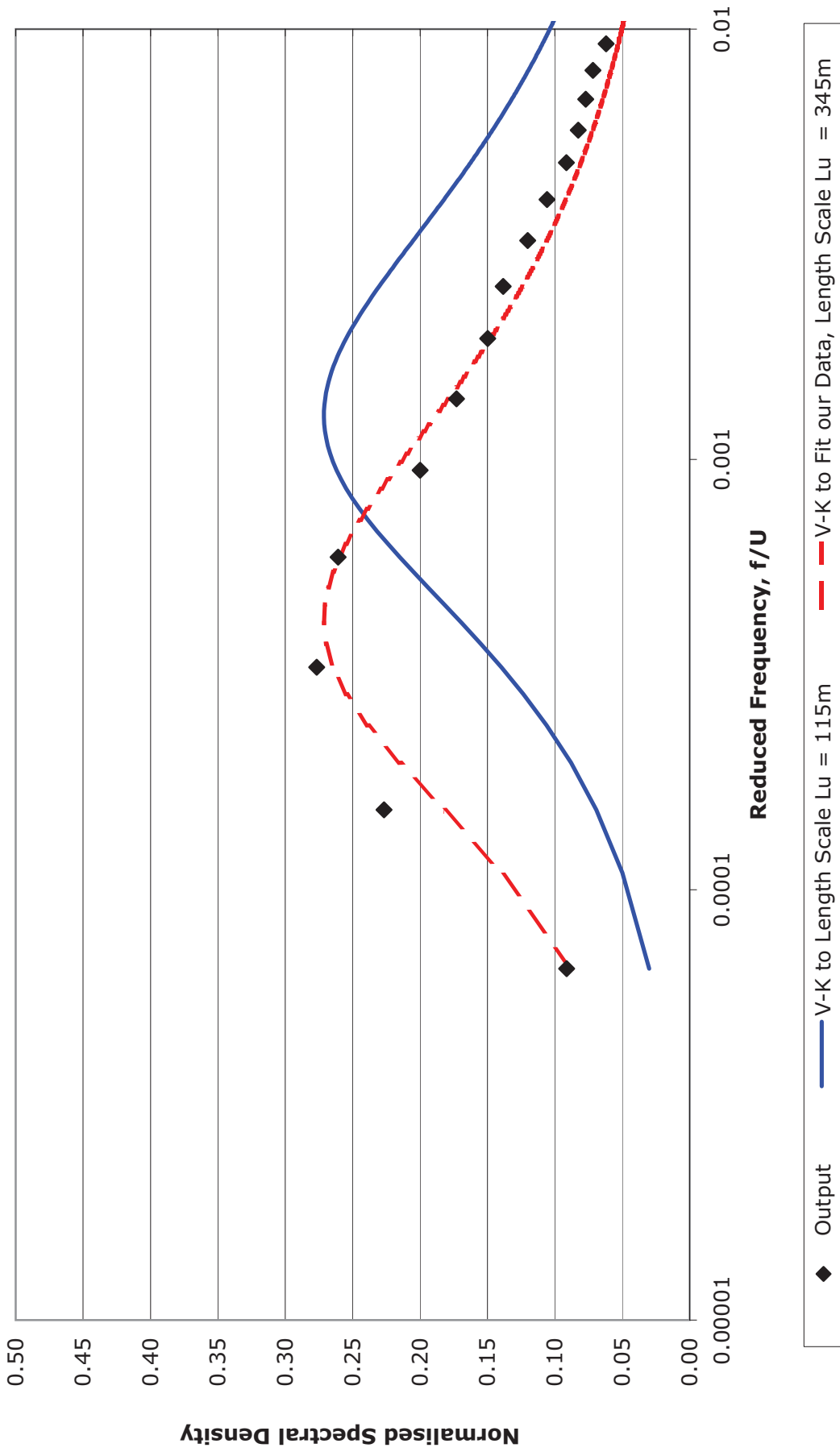
Suburban Terrain Spectral Density Plot for 1:300 Scale at 100m



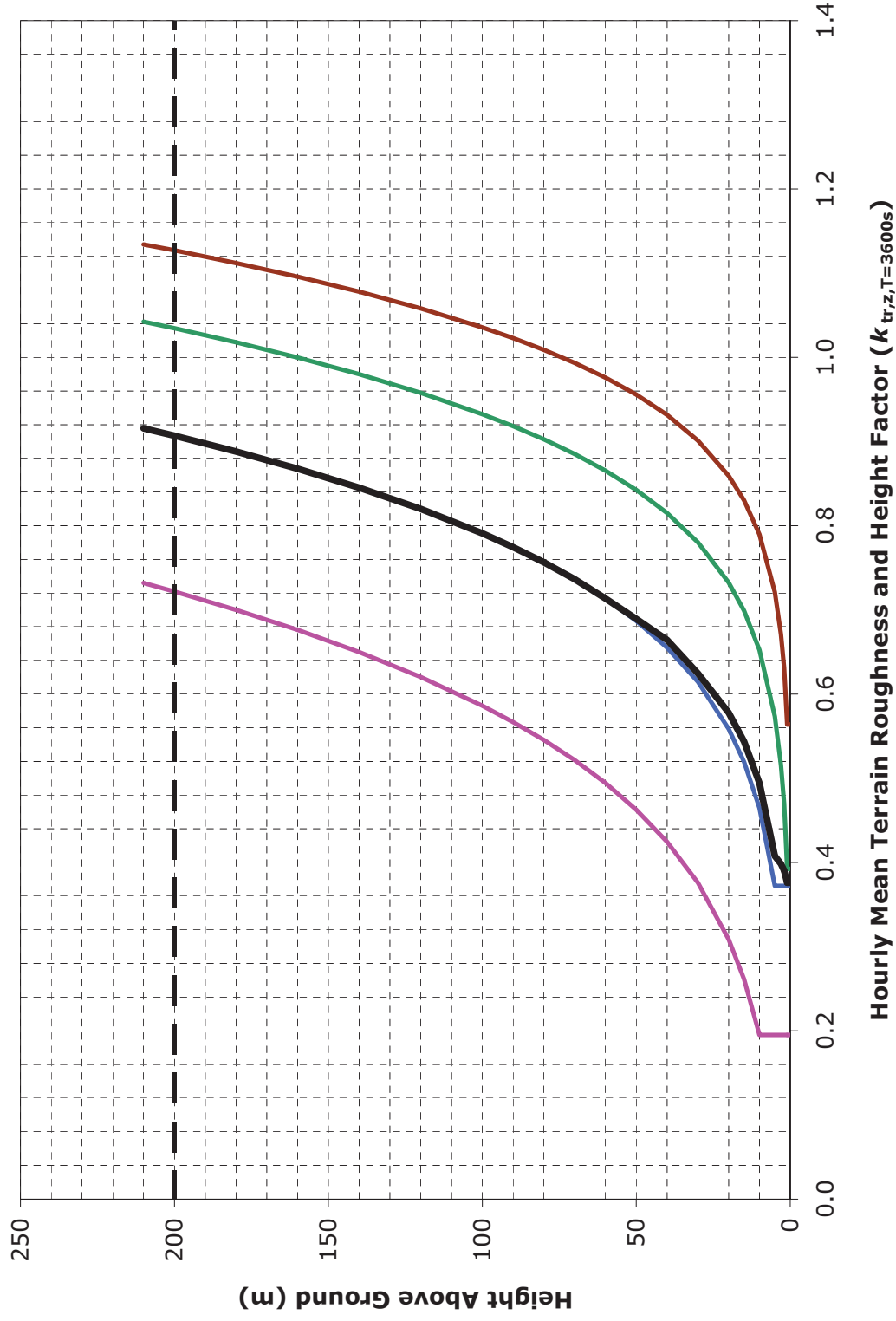
Urban Terrain Velocity and Turbulence Intensity Profile, 1:300 Scale



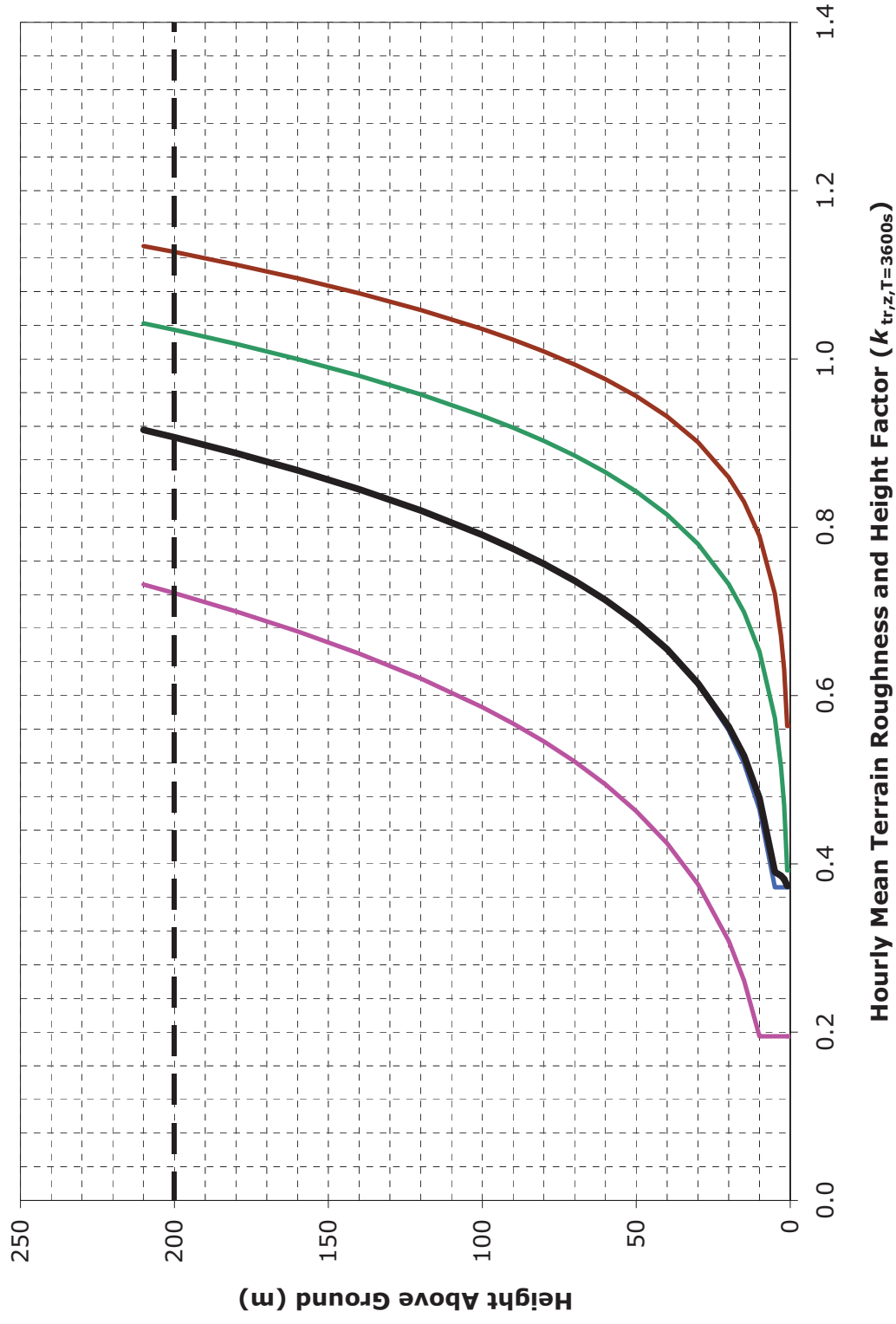
Urban Terrain Spectral Density Plot for 1:300 Scale at 100m



# Hourly Mean Velocity Profile for Northerly Winds

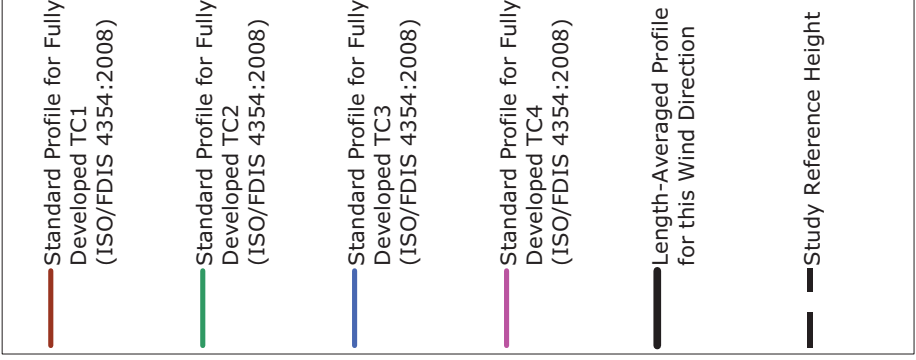
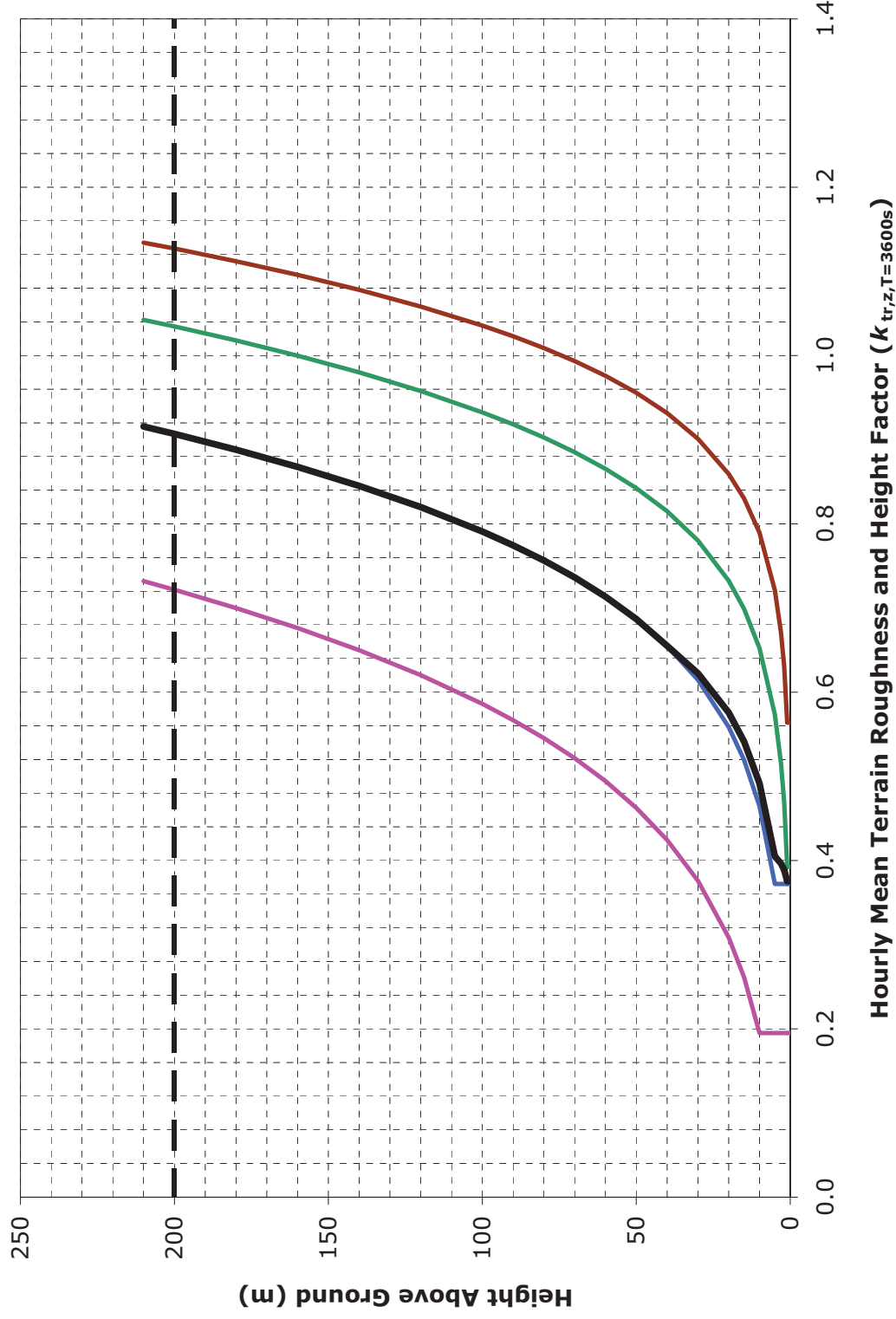


# Hourly Mean Velocity Profile for North-North-Easterly Winds

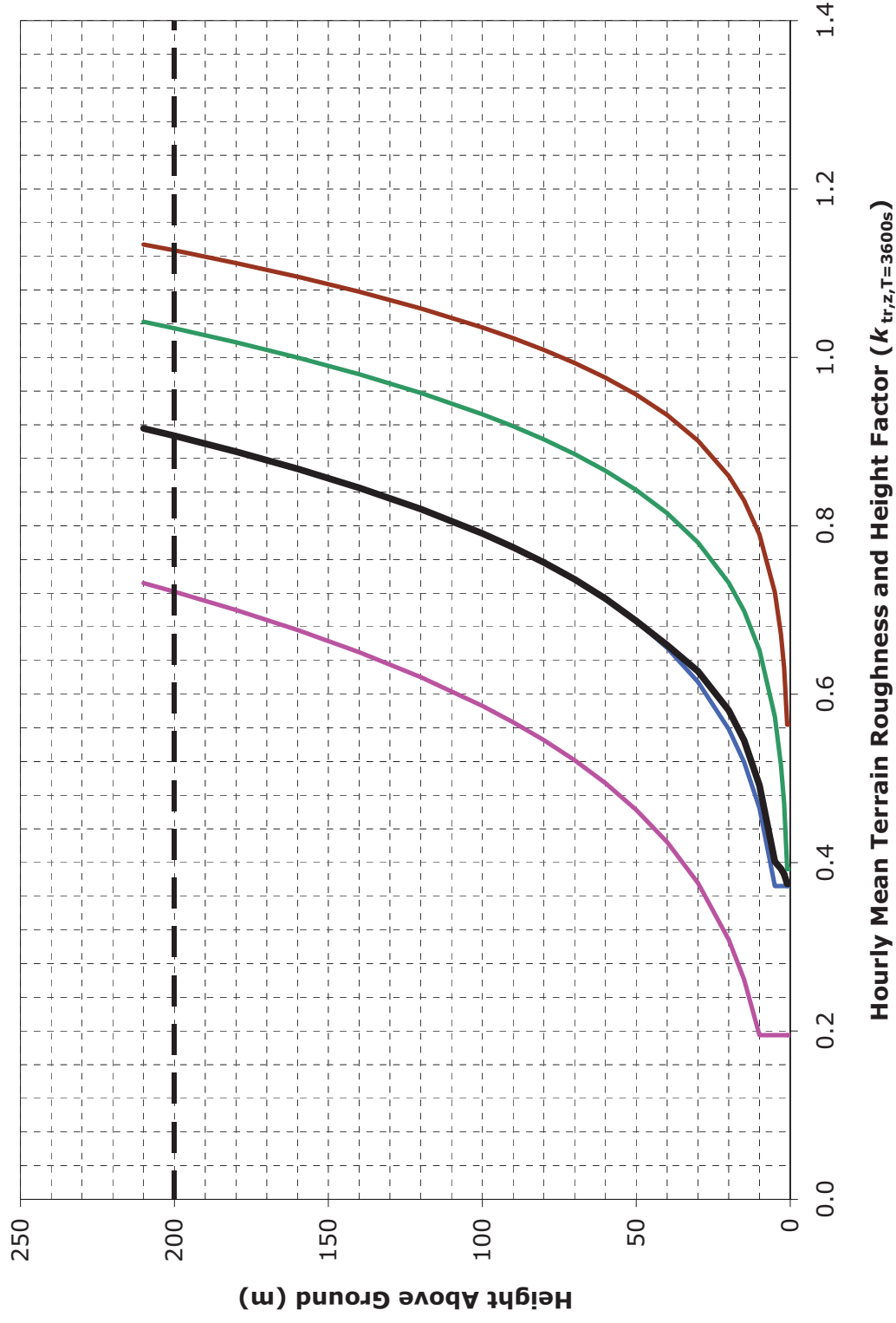




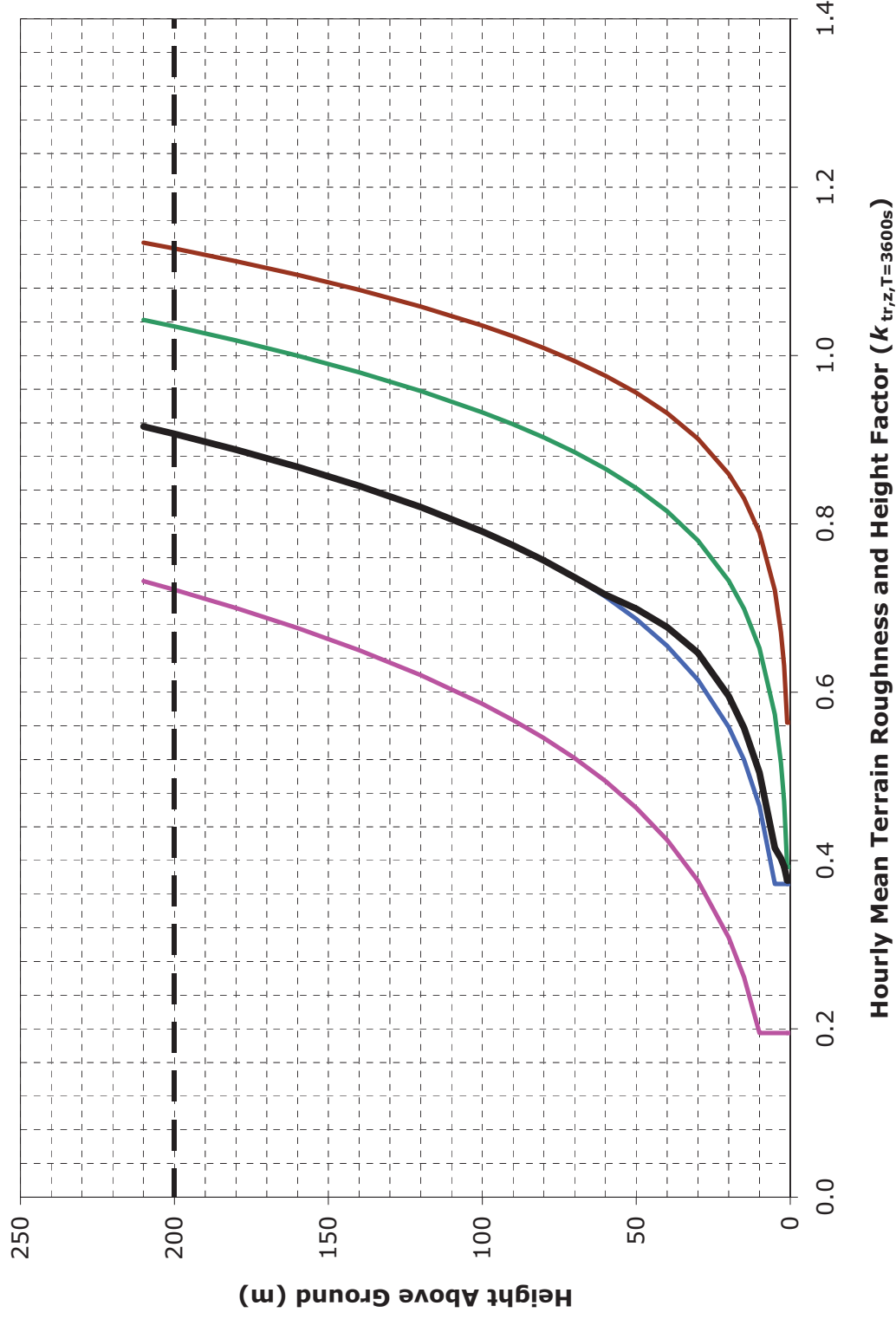
# Hourly Mean Velocity Profile for North-Easterly Winds



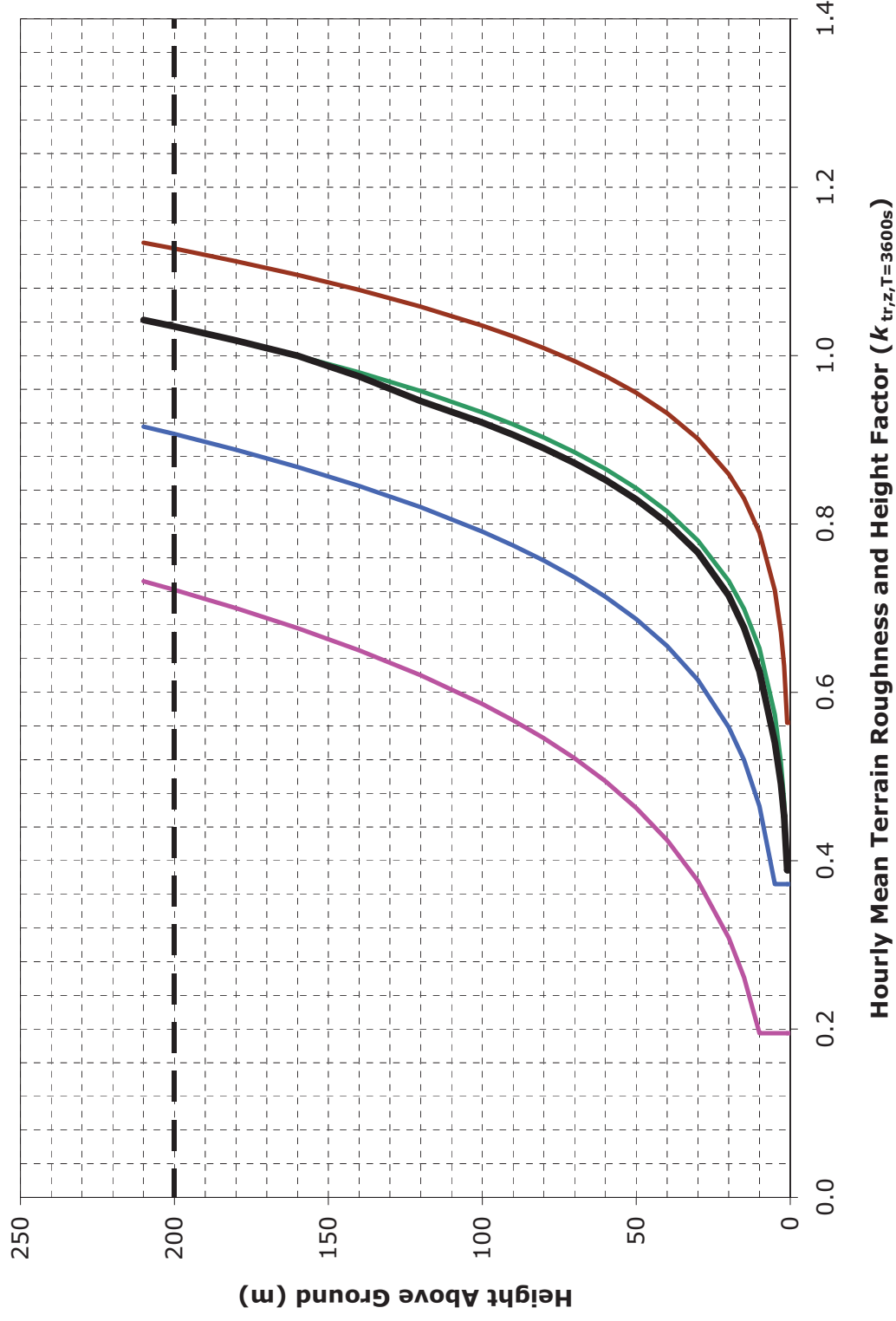
## Hourly Mean Velocity Profile for East-North-Easterly Winds



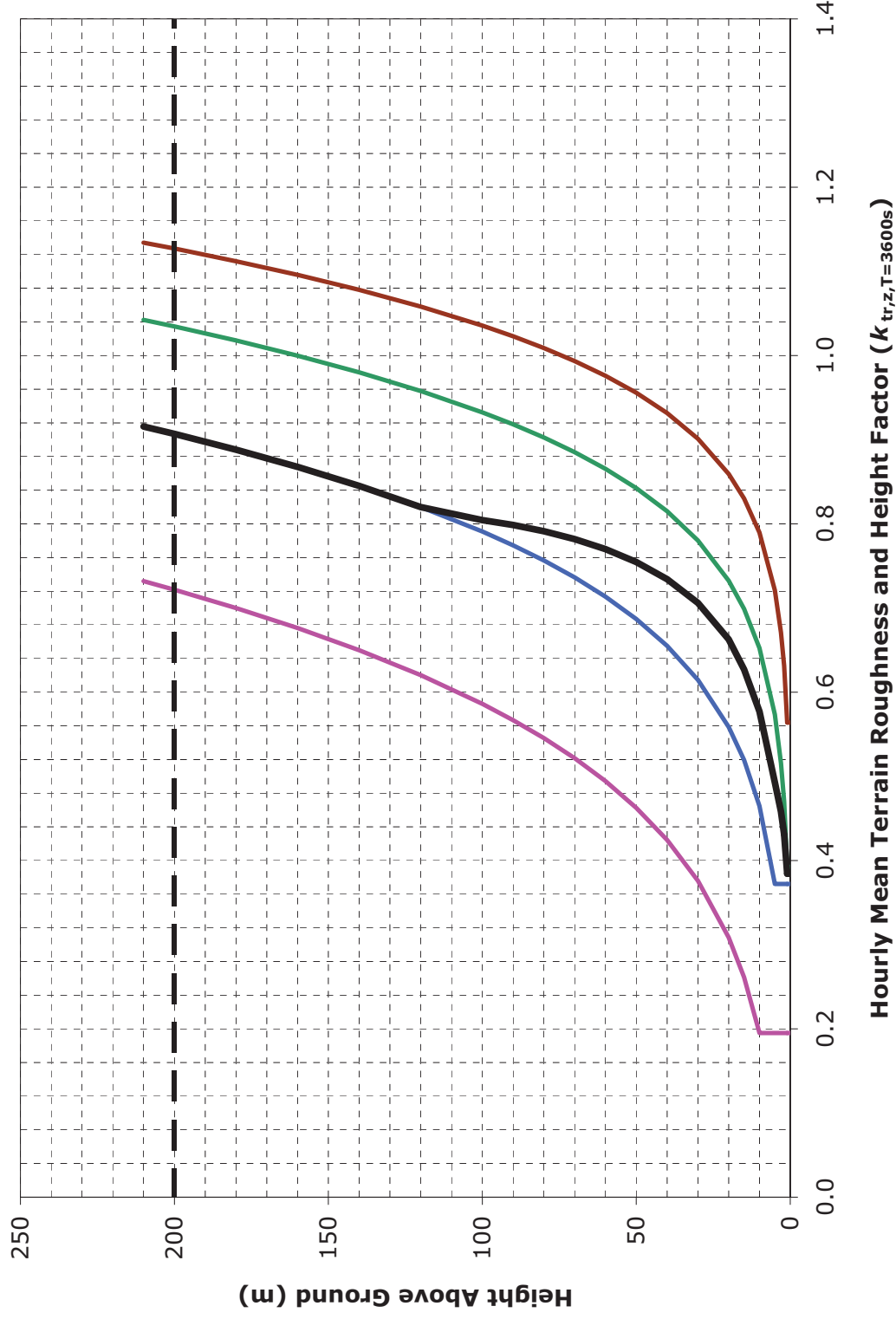
# Hourly Mean Velocity Profile for Easterly Winds



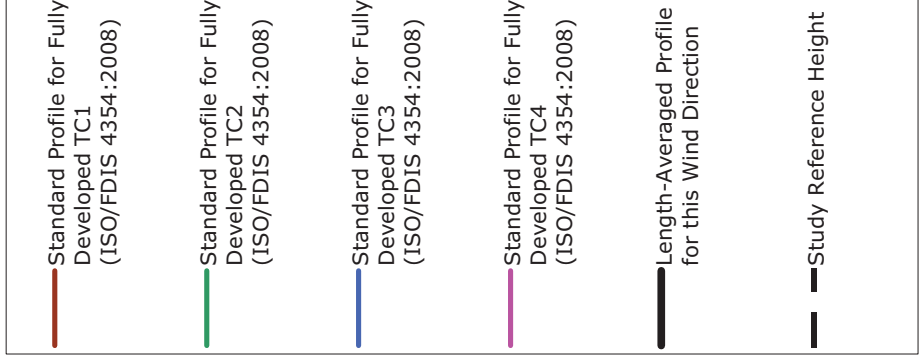
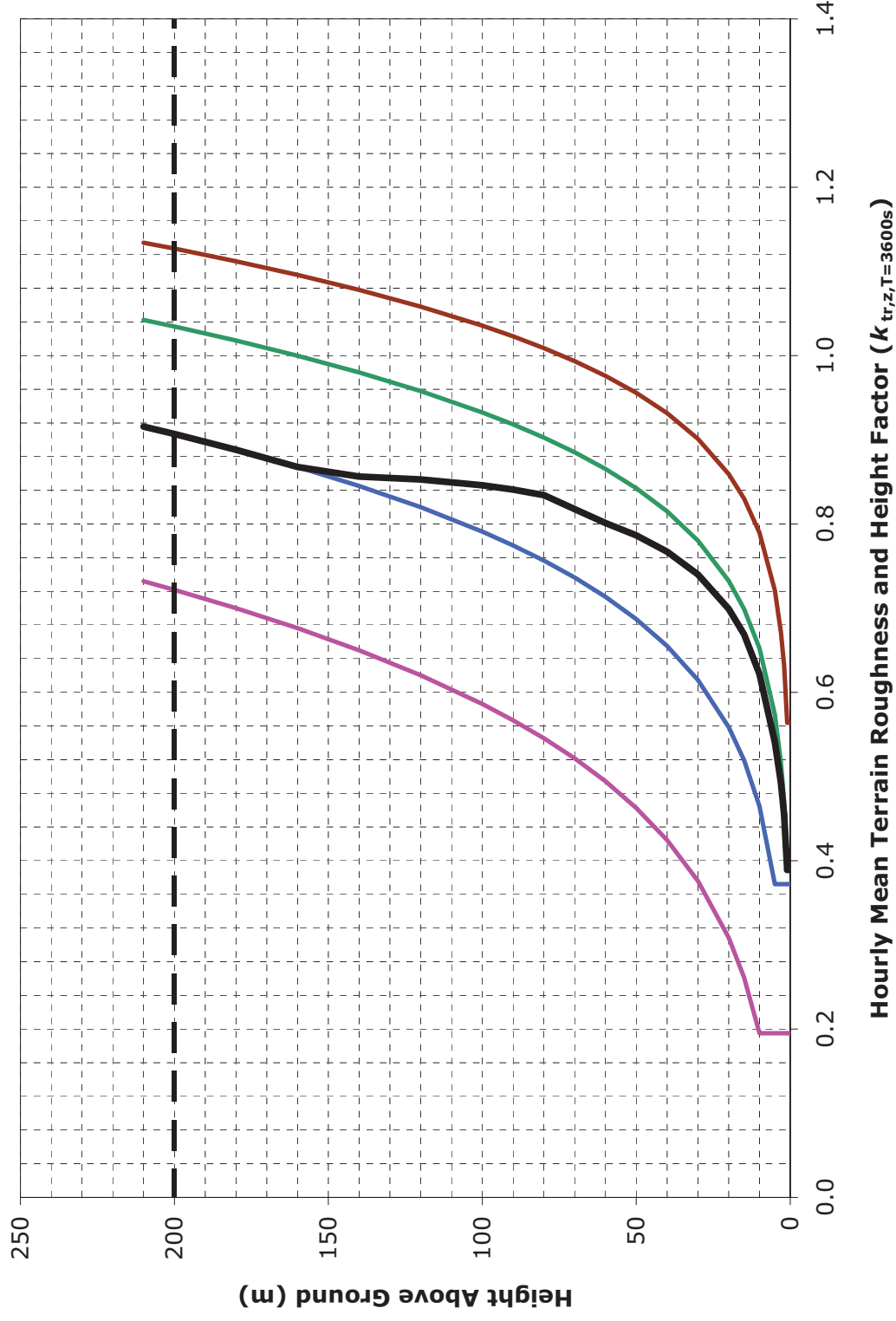
## Hourly Mean Velocity Profile for East-South-Easterly Winds



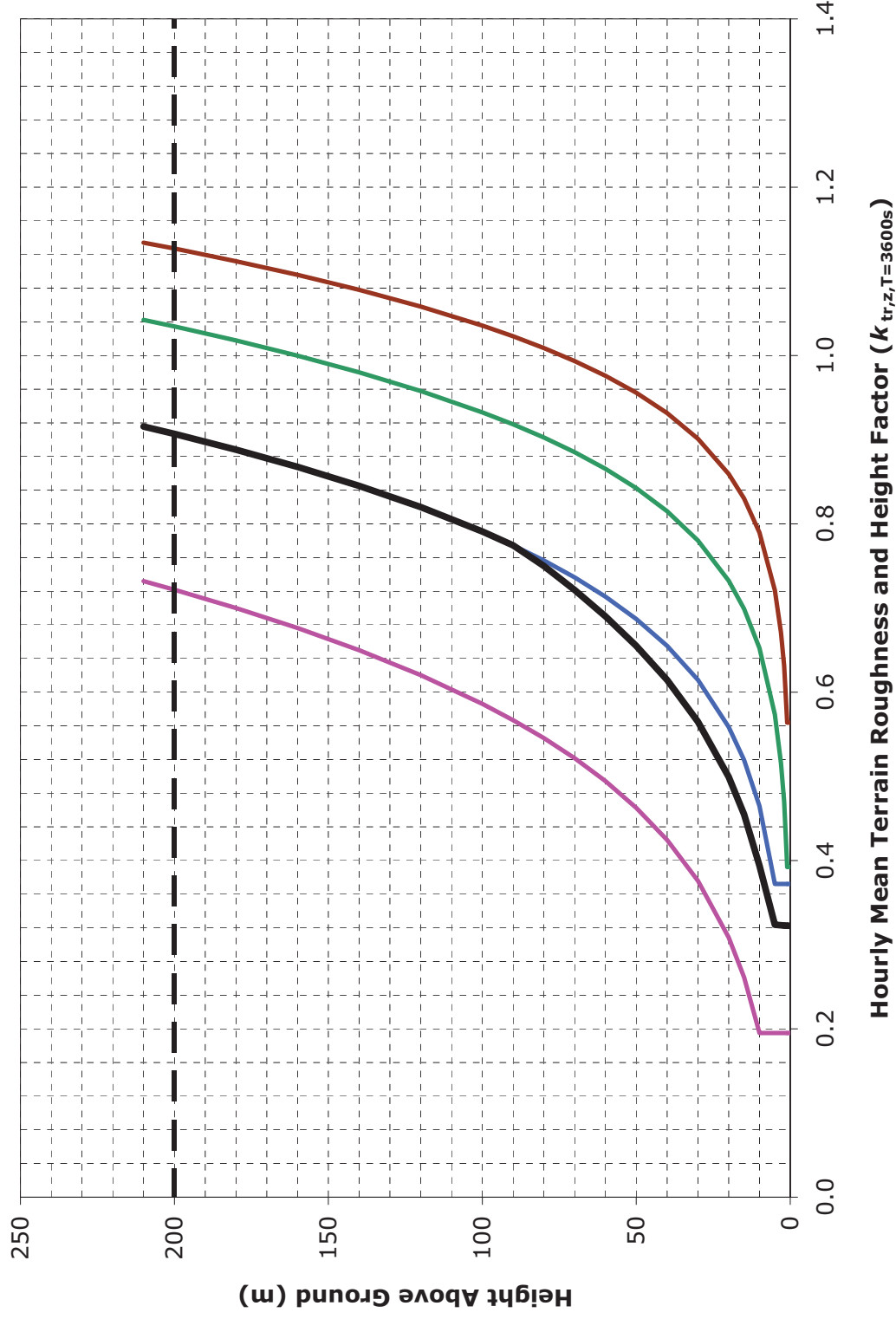
## Hourly Mean Velocity Profile for South-Easterly Winds



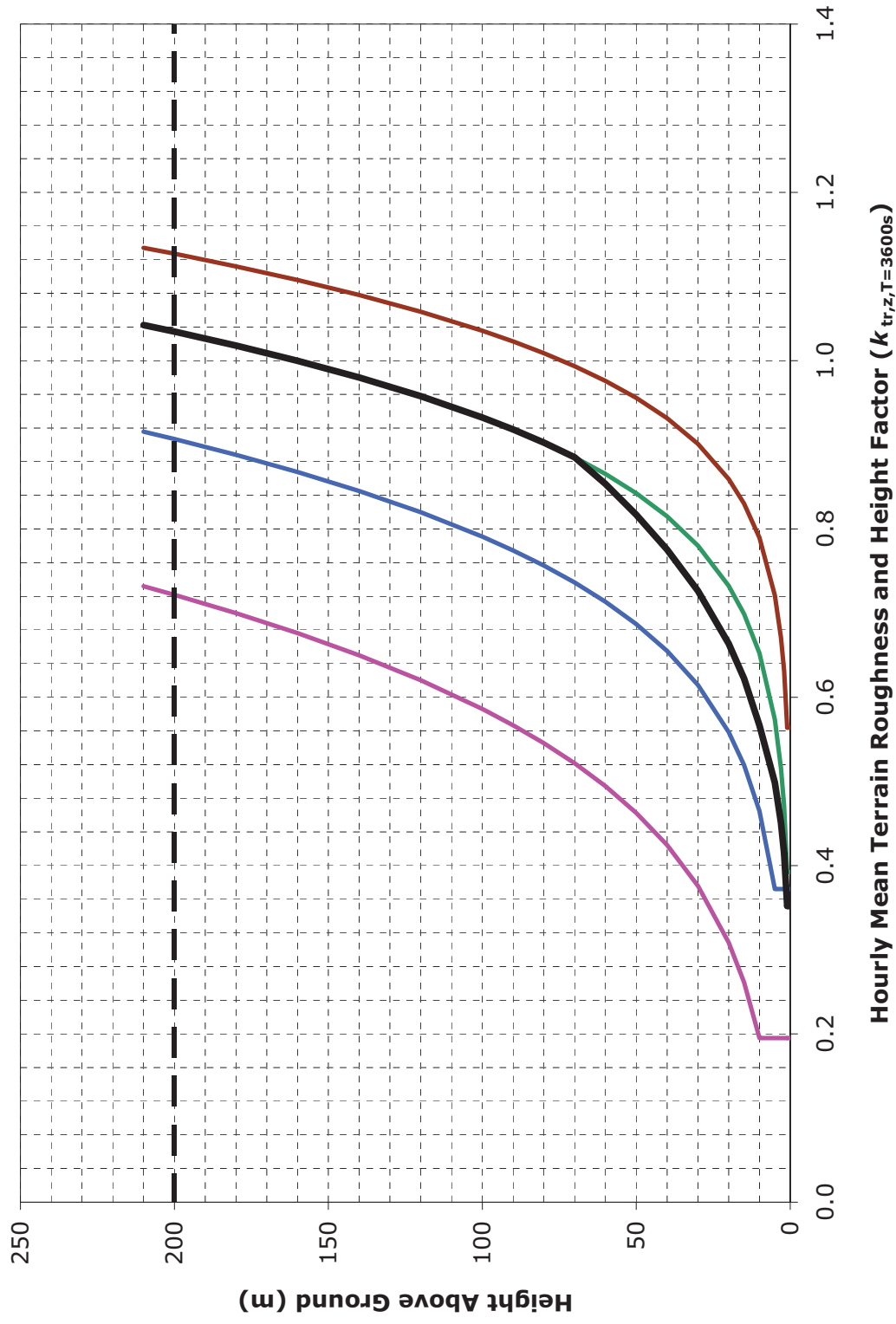
## Hourly Mean Velocity Profile for South-South-Easterly Winds



## Hourly Mean Velocity Profile for Southerly Winds



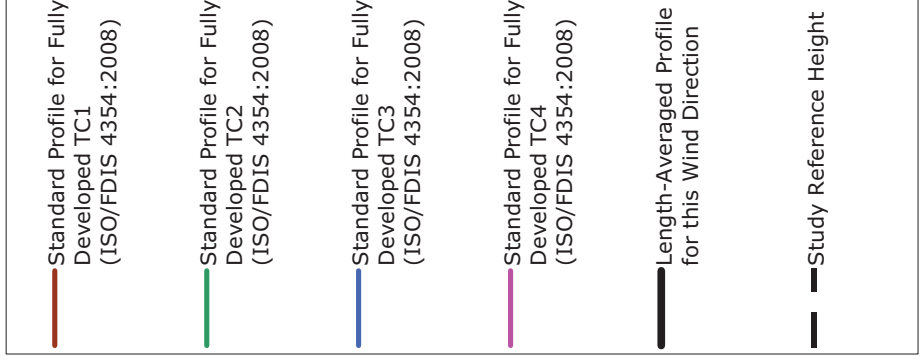
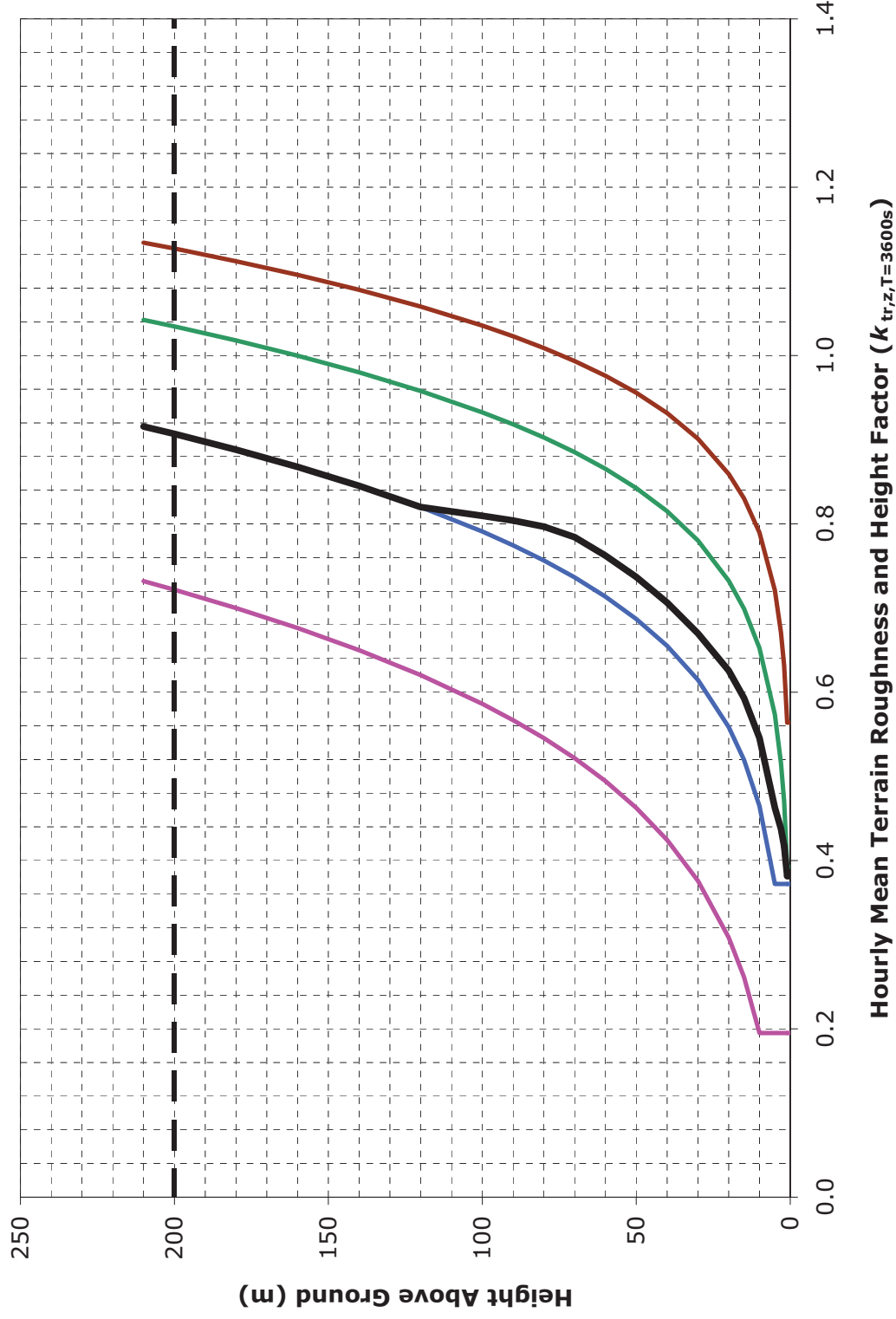
## Hourly Mean Velocity Profile for South-South-Westerly Winds



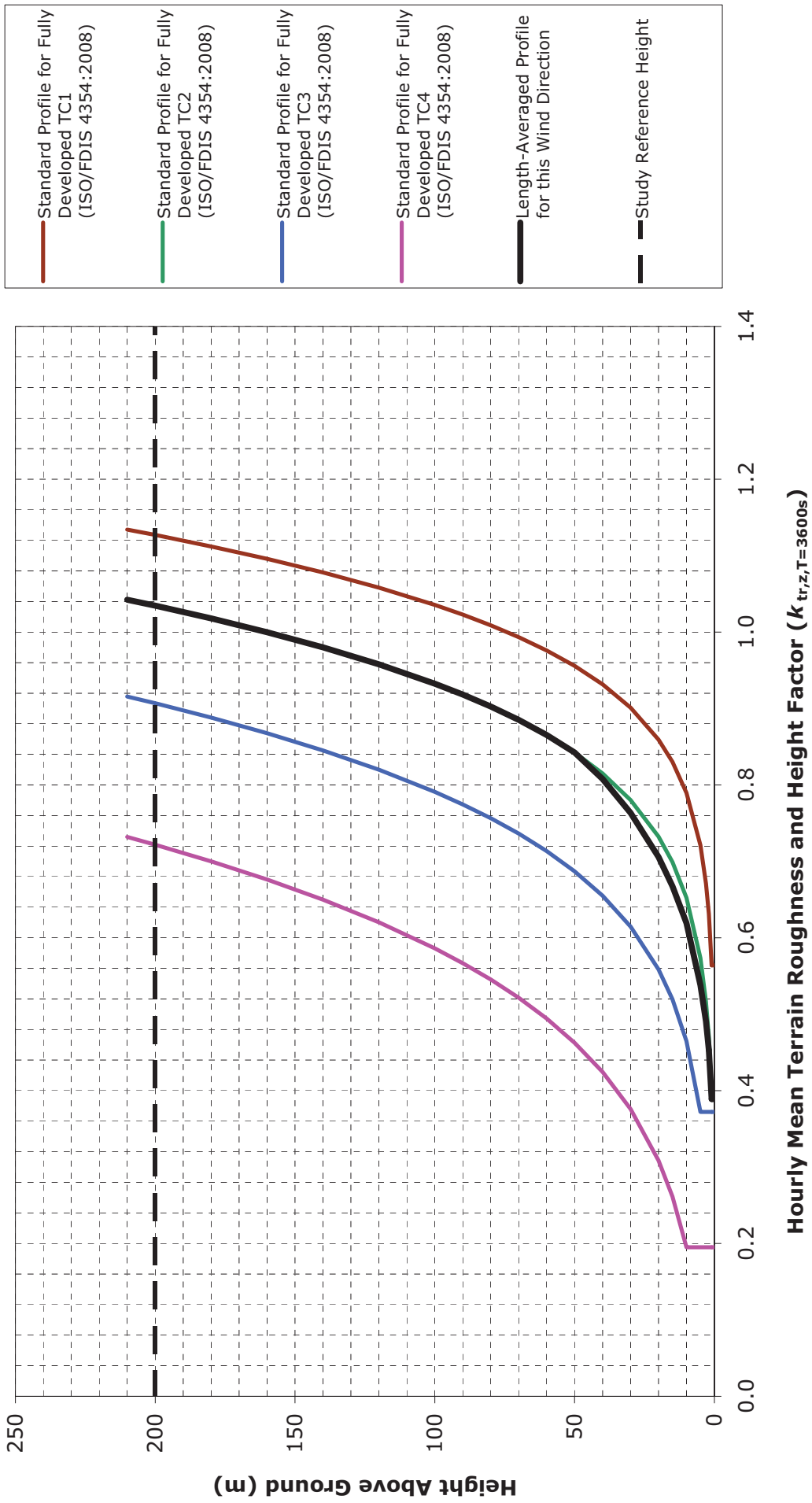




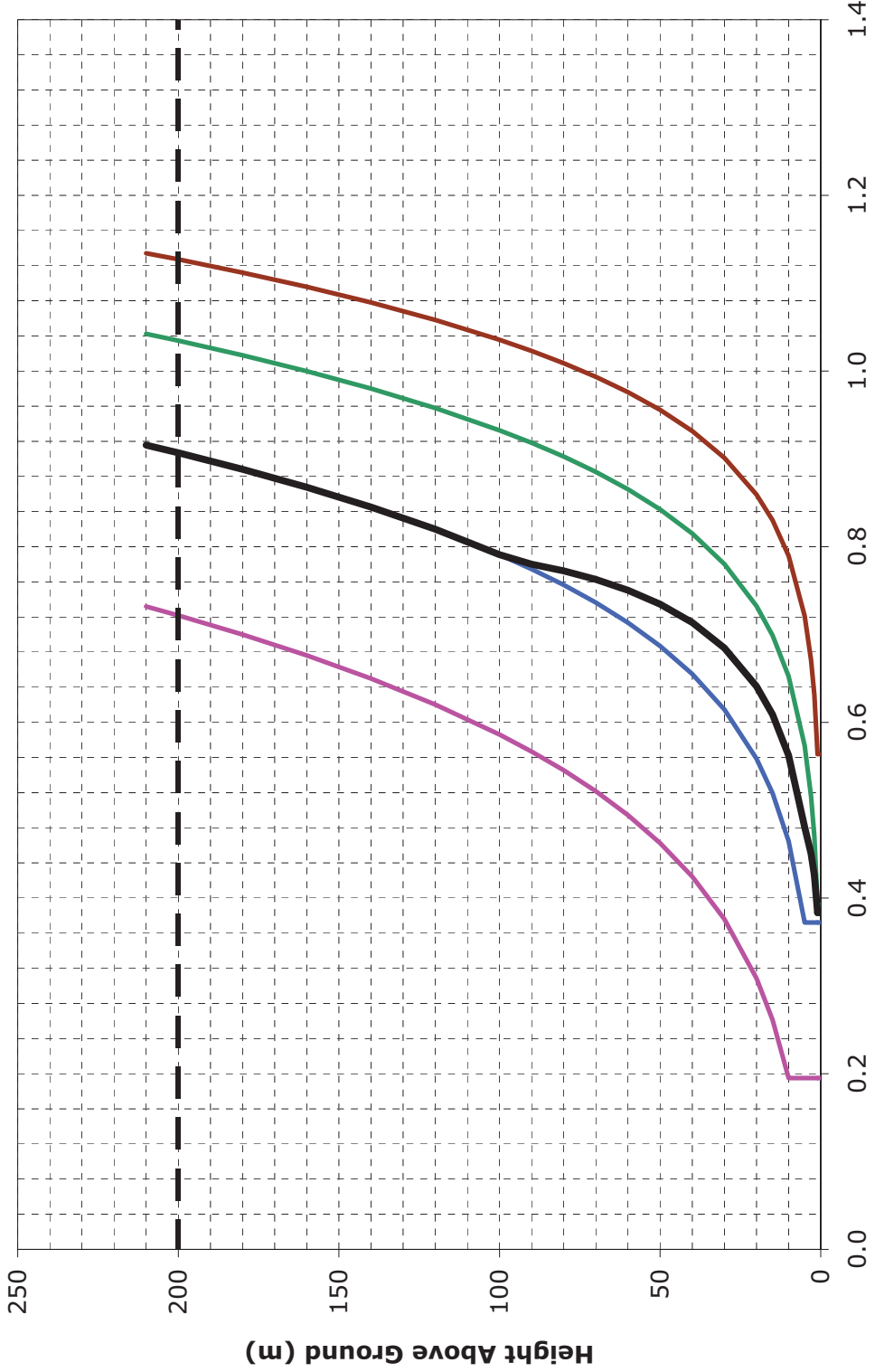
# Hourly Mean Velocity Profile for West-South-Westerly Winds



## Hourly Mean Velocity Profile for Westerly Winds



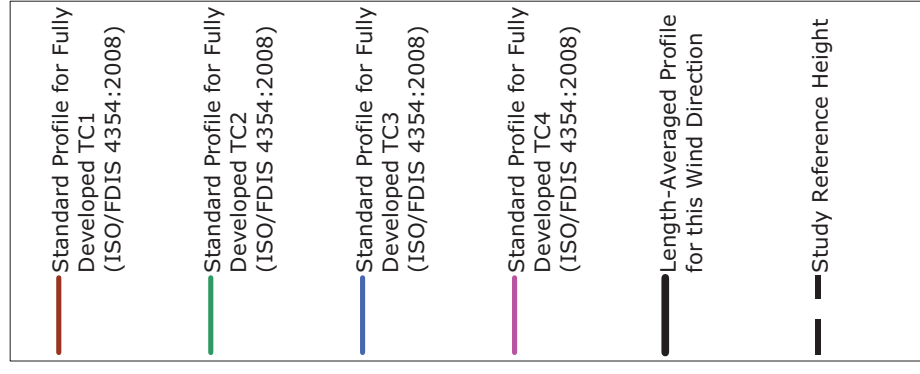
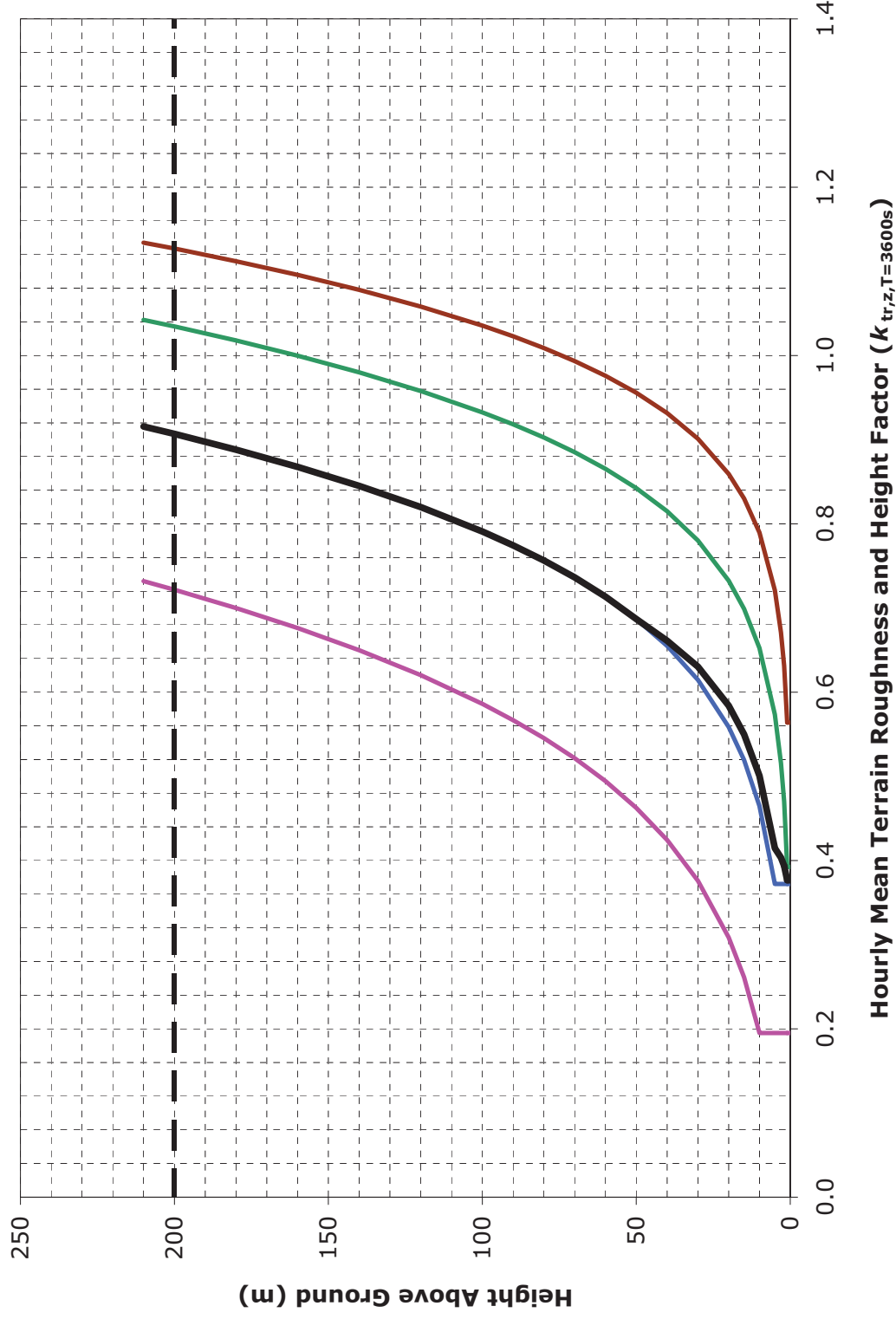
# Hourly Mean Velocity Profile for West-North-Westerly Winds



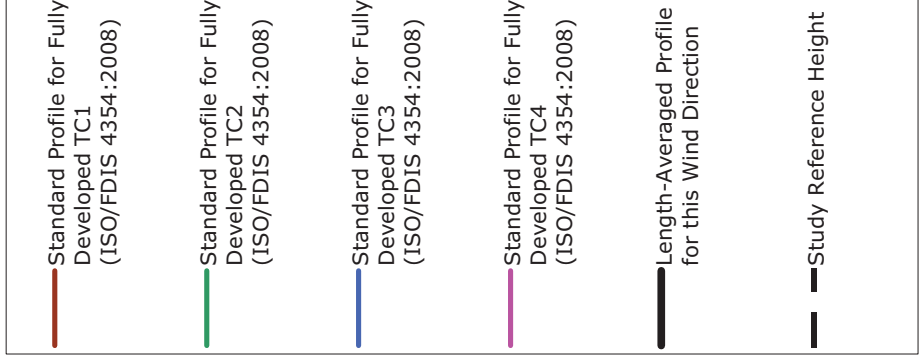
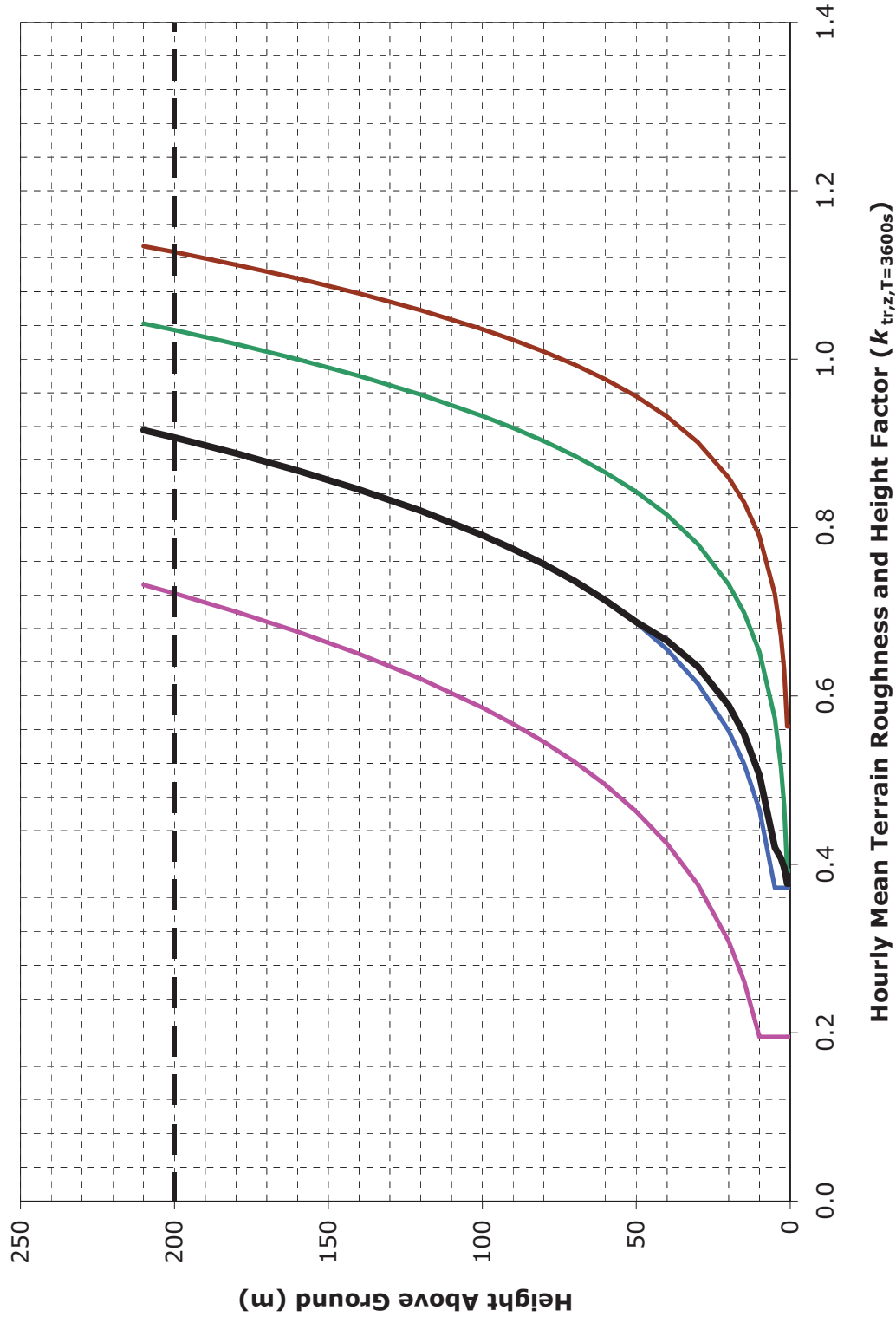
Hourly Mean Terrain Roughness and Height Factor ( $k_{tr,z,T=3600s}$ )

- Standard Profile for Fully Developed TC1 (ISO/FDIS 4354:2008)
- Standard Profile for Fully Developed TC2 (ISO/FDIS 4354:2008)
- Standard Profile for Fully Developed TC3 (ISO/FDIS 4354:2008)
- Standard Profile for Fully Developed TC4 (ISO/FDIS 4354:2008)
- Length-Averaged Profile for this Wind Direction
- Study Reference Height

# Hourly Mean Velocity Profile for North-Westerly Winds



## Hourly Mean Velocity Profile for North-North-Westerly Winds

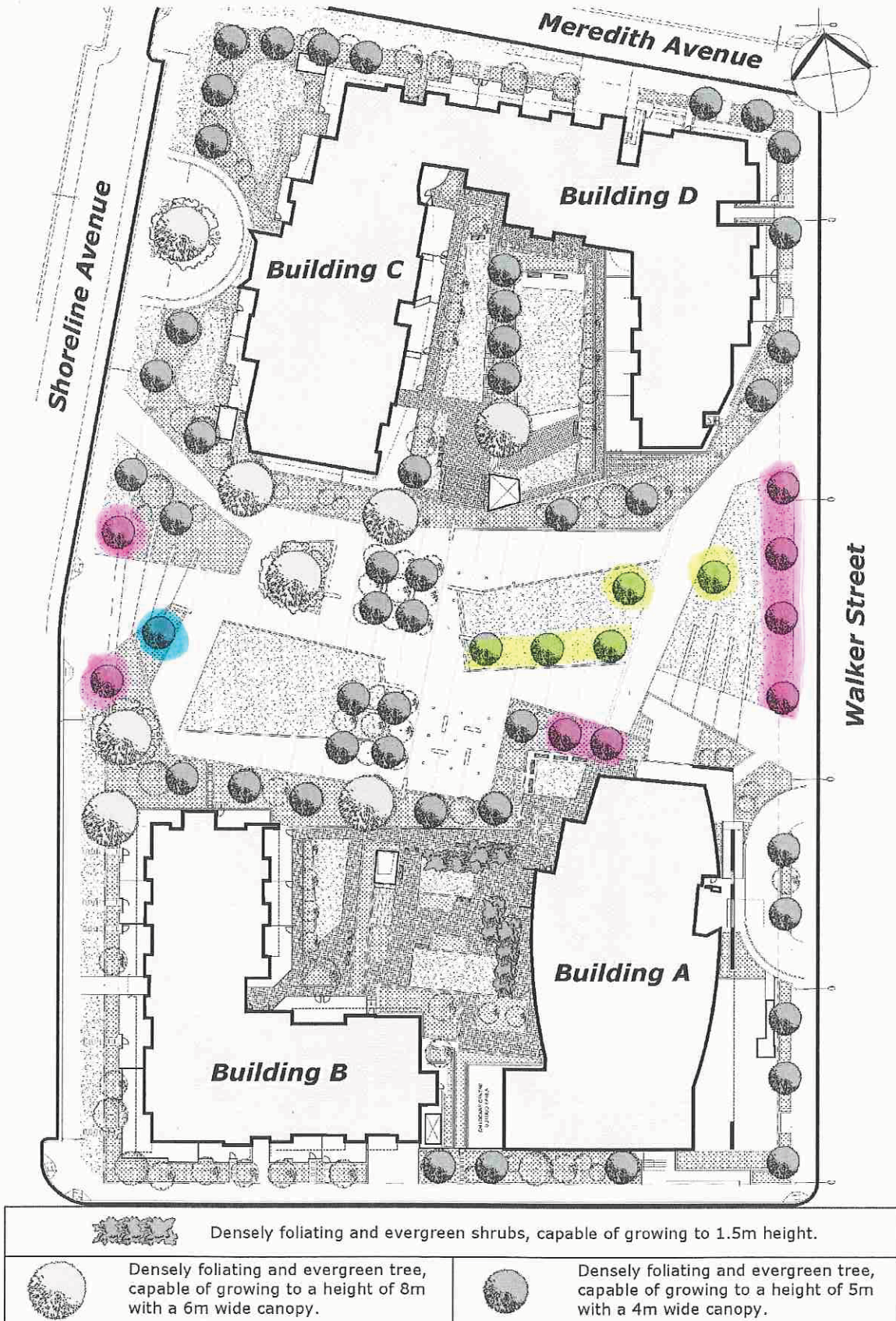


# **Appendix C**

Landscape Architect's Mark-Up  
of the Recommended  
Ground Level Tree Planting

SITE IMAGE  
28/5/2010

OBSTRUCTION OF VIEW CORRIDOR  
LIMITED SOIL DEPTH  
POSSIBLE



**Figure 7a: Recommended *Minimum* Tree Planting Layout for the Ground Level**