VOLTAGE DROP CALCULATIONS

USM - Masterton Hall
Portland, ME

Circuit 1			**Circuit 2**		
	Amperage	1.56		Amperage	0.92
	Length of Run	289		Length of Run	150
	Voltage Drop	**9.87%**		Voltage Drop	**3.02%**
	VDC Applied	**18.03**		VDC Applied	**19.68**
Circuit 3			**Circuit 4**		
	Amperage	1.06		Amperage	0.518
	Length of Run	240		Length of Run	110
	Voltage Drop	**5.57%**		Voltage Drop	**1.25%**
	VDC Applied	**19.06**		VDC Applied	**20.1**
Circuit 5			**Circuit 6**		
	Amperage	1.48		Amperage	1.31
	Length of Run	336		Length of Run	283
	Voltage Drop	**10.89%**		Voltage Drop	**8.12%**
	VDC Applied	**17.79**		VDC Applied	**18.45**

Voltage Drop Parameters:
16 VDC = Minimum Power to any Appliance
4.4 VDC = Maximum Permissible Voltage Drop in Wiring System
20.4 VDC = Reduced Battery Potential at End of Life