



Report No. 12144
Date: 05/05/05

Fuel Reduction Pilot Program

CONDUCTED AT

ATMOS ENERGY - JACKSON, MS

FOR

Allied Energy

TEST RESULTS
FOR A
HOT-WATER BOILER

A Confidential Report
Prepared by
Intellidyne LLC



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Test Report

Report No. 12144

Date: 06/06/05

Customer:

Allied Energy
 634 Earl Ave.
 Somerdale, NJ, 08083

 Attn: Bill Tarves

Test Site Location:

ATMOS Energy
 711 West Capitol Street
 Jackson, MS, 39203

Test Type: HEATING AIR CONDITIONING REFRIGERATION OTHER: _____
 Product Tested: HW LCH LCS CHW CHS AC CAC RU OTHER: _____

Type of Equipment:

Manu.: AJAX
 Model: WNG-2500
 Fire Rate / Fuel Type: 2.3MMBTU/Hr. / Natural Gas
 Application / Area Served: Reheat / Entire Building
 Setpoint: 180 F.

Test Start Date: 04/29/05
 Test End Date: 05/22/05
 No. of Days in Test: 24

BURNER RUN-TIME:

in HRS. in MIN.

IntelliCon ON-DAYS: 89:30:03

IntelliCon OFF-DAYS: 112:53:56

RUN-TIME was reduced by: 20.72%

BURNER USAGE FACTOR:

IntelliCon On-Days: 31%

IntelliCon Off-Days: 39%

HEATING DEGREE-DAYS (FOR TEST PERIOD)

IntelliCon ON-DAYS: 18

It was 5.5% Colder on the On-Days.

IntelliCon OFF-DAYS: 17

Total Degree-Days: 35

SOLAR LOAD COMPENSATION: (Lumens/Sq. Ft.)

IntelliCon ON-DAYS: 13644

IntelliCon OFF-DAYS: 14001

It was 2.54% Sunnier on the OFF-Days.

BURNER CYCLING REDUCTION:

IntelliCon ON-DAYS: 3192

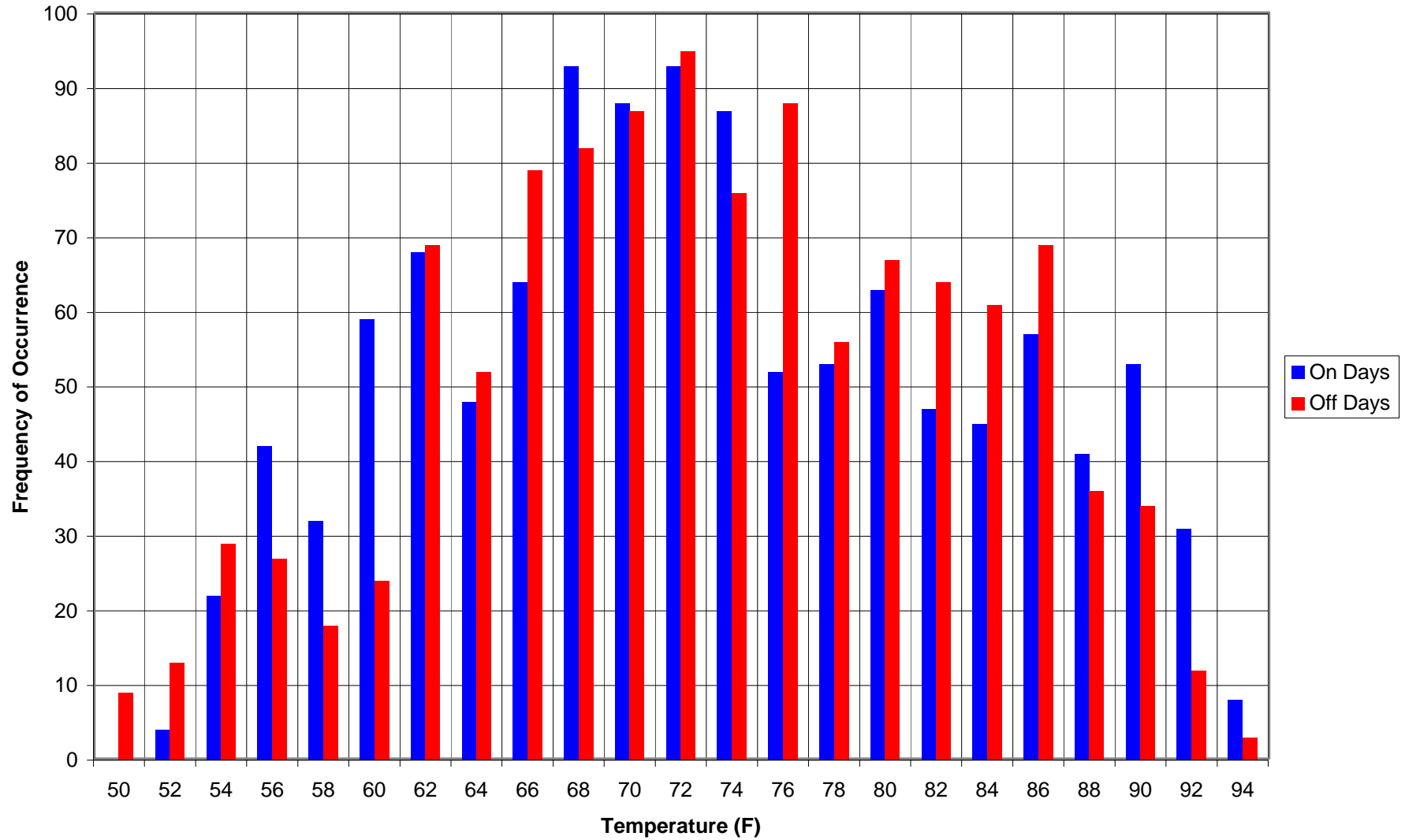
IntelliCon OFF-DAYS: 5358

Cycling was reduced by: 40.4%

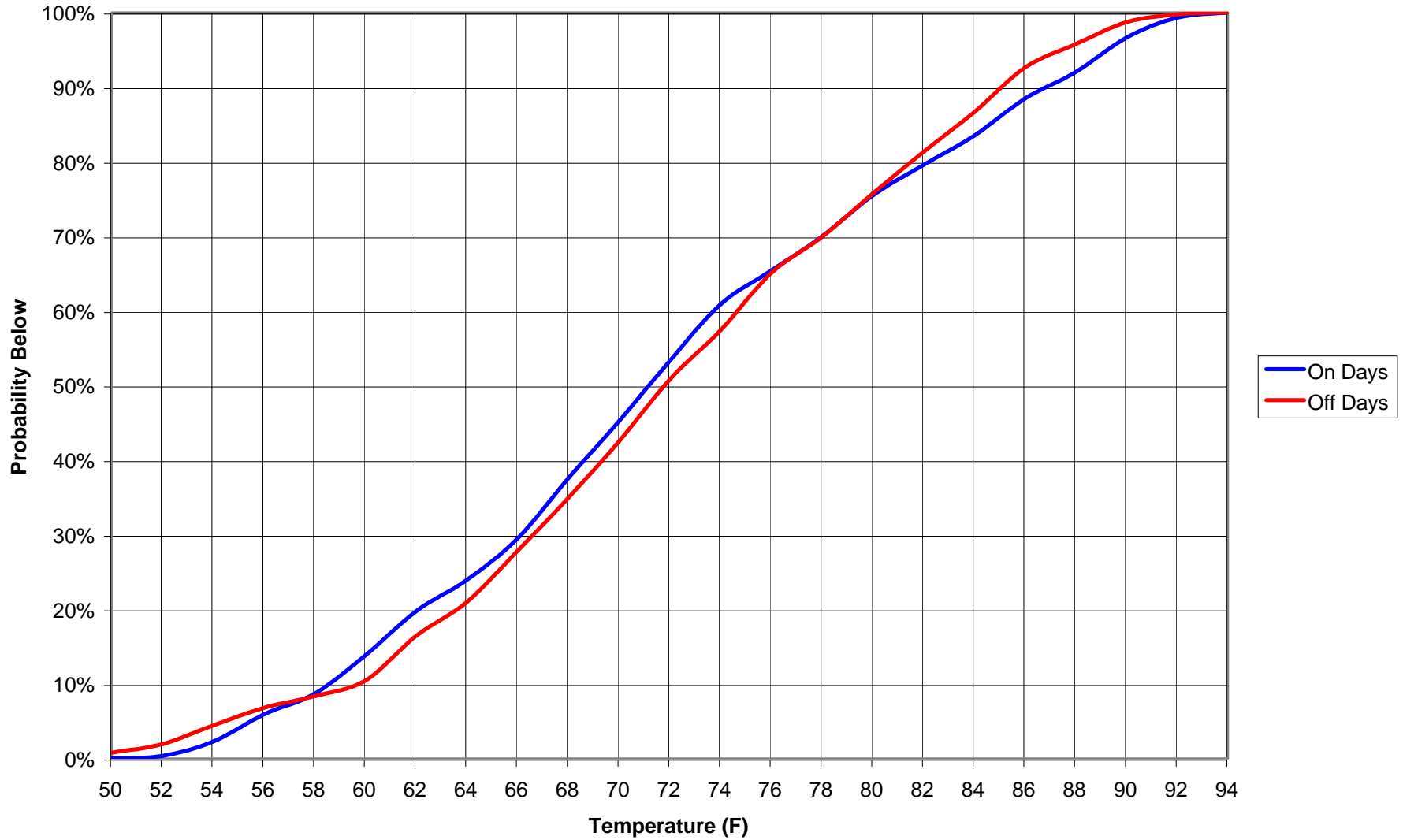
Savings = 20.72%

COMMENTS: Savings results should be considered a minimum since it was colder on the days that the IntelliCon controller was in-circuit and it was also sunnier on the days that it was out of circuit. Besides the savings, also of important note is the change in usage factor as well as the cycle reduction. Space temperature data verified virtually no difference in space temperature maintenance with or without the IntelliCon controller in the circuit.

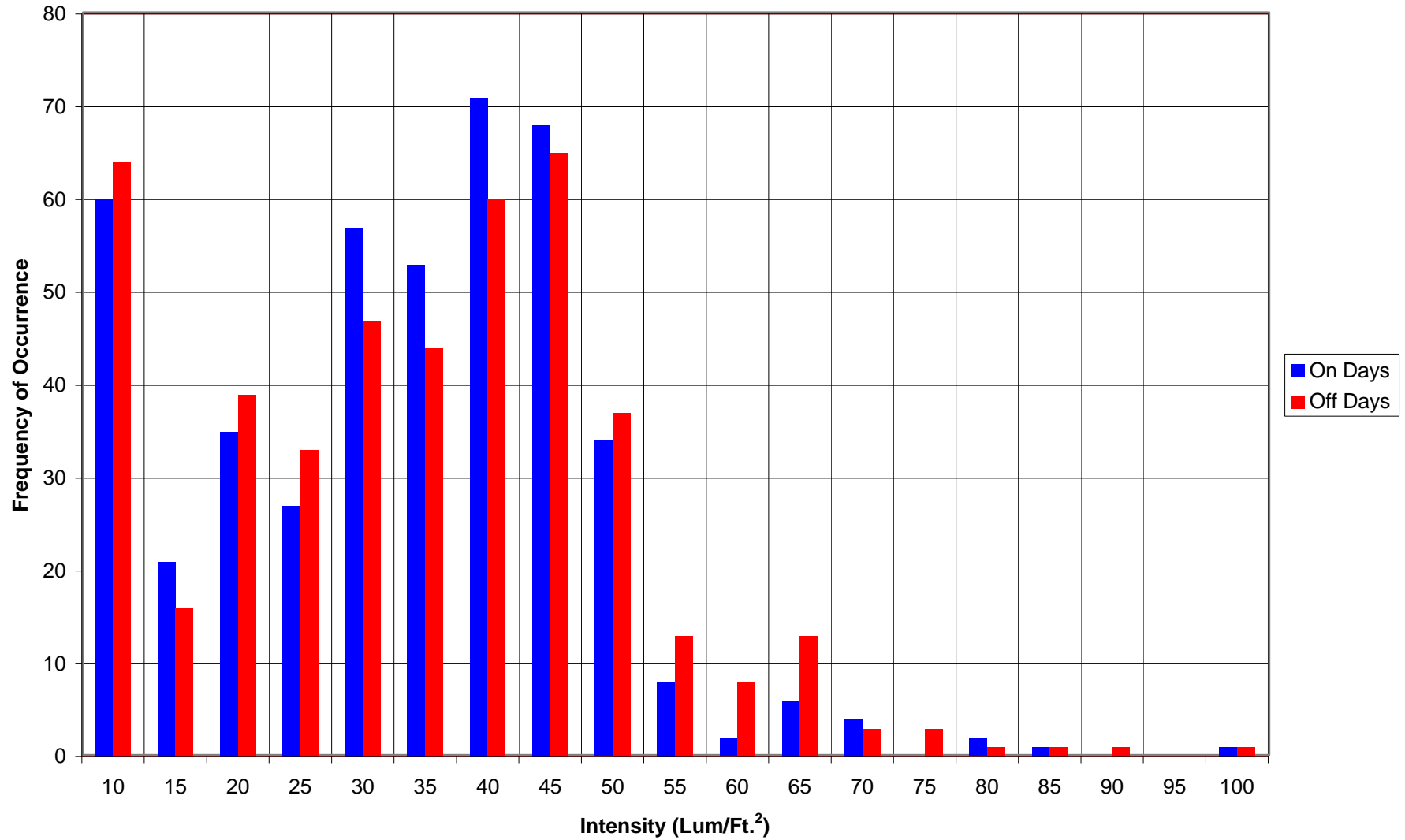
Outside Air Temperature Histogram (4/29/05 --5/22/05)



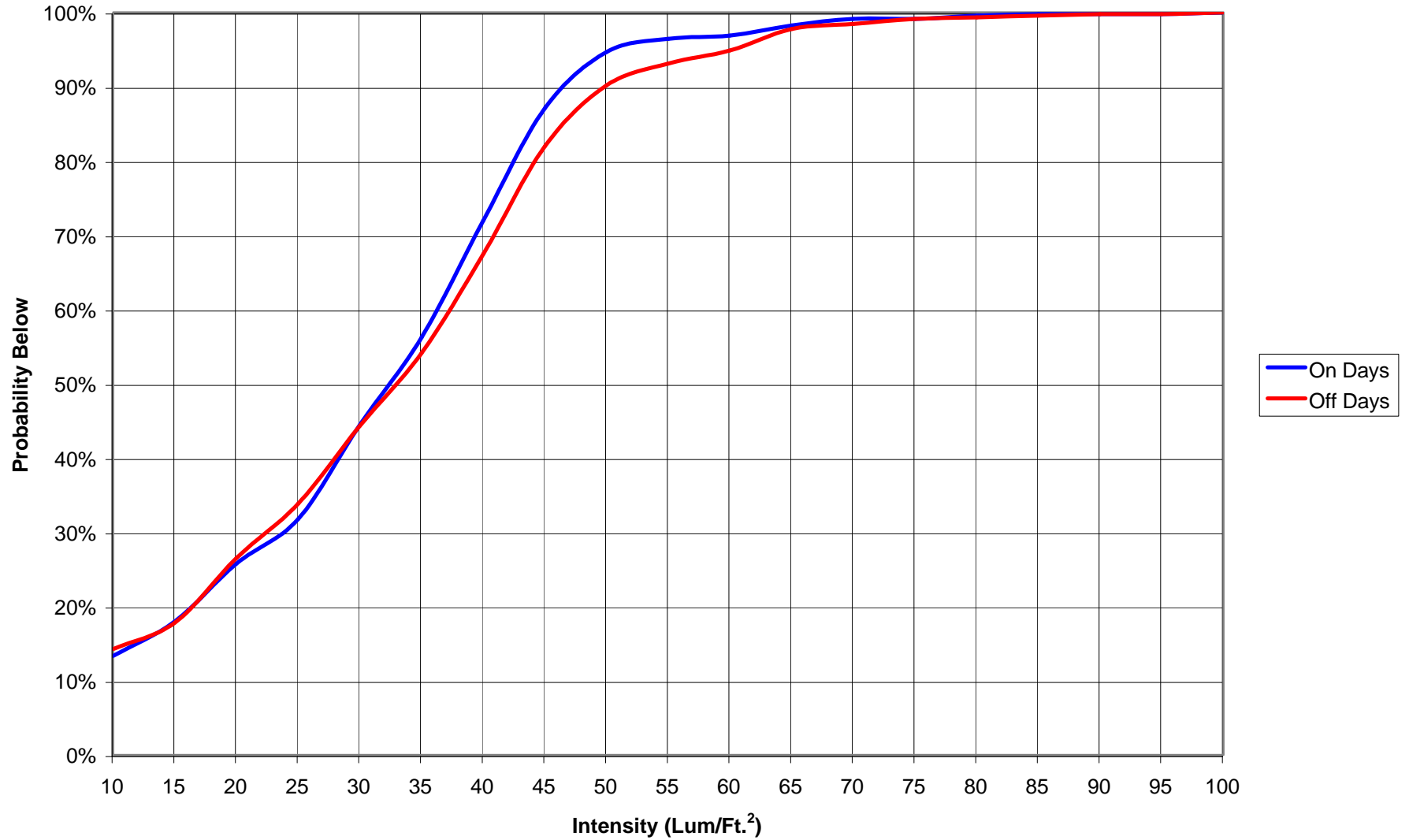
Outside-Air Temperature Probabilities (4/29/05 --5/22/05)



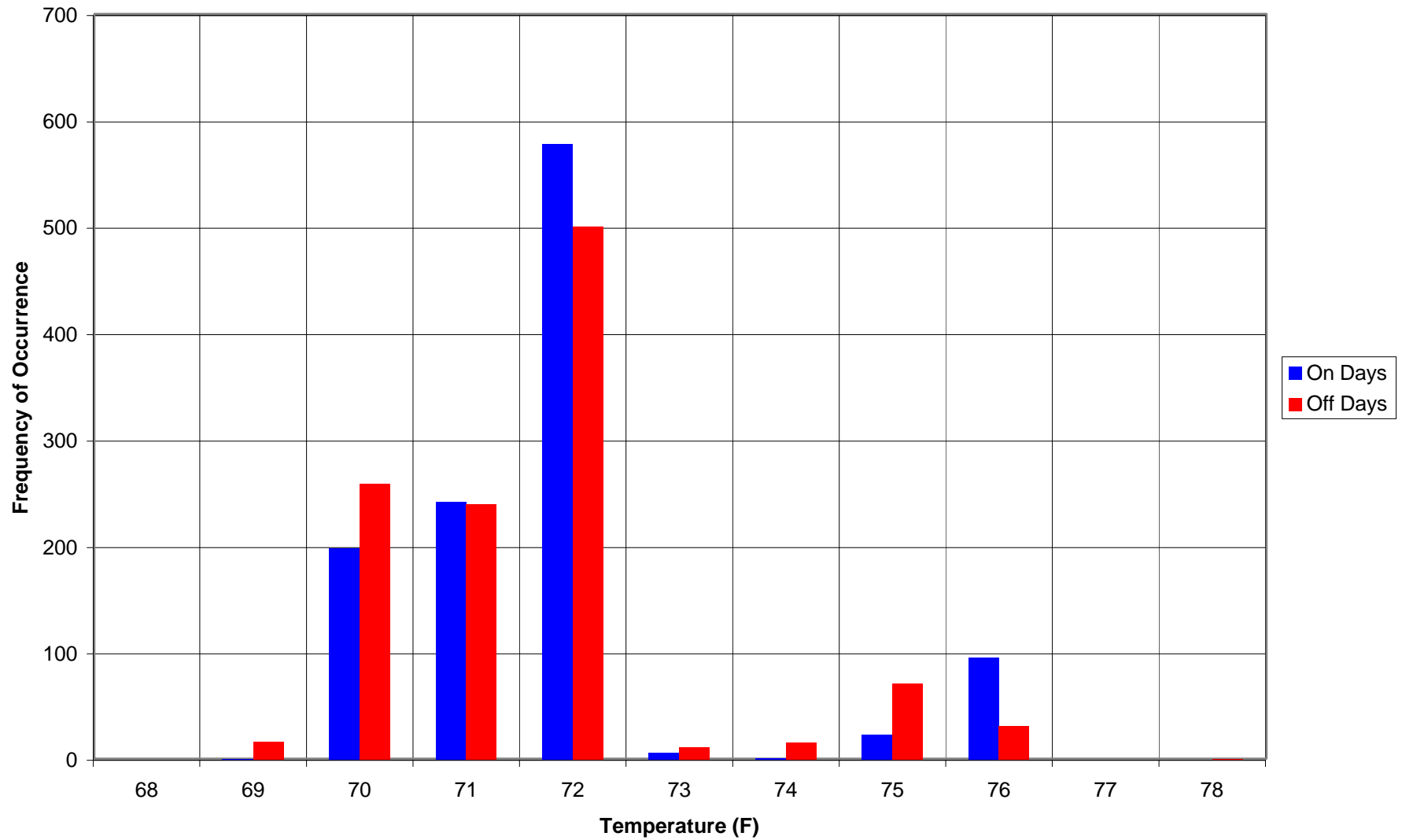
Solar Load Probabilities (4/29/05 --5/22/05)



Solar Load Probabilities (4/29/05 --5/22/05)



Space Temperature Histogram (4/29/05 --5/22/05)



Space Temperature Probabilities (4/29/05 --5/22/05)

