



Report No. 12166
Date: 03/16/10

Fuel Reduction Pilot Program

CONDUCTED AT

NYU – BRITTANY HALL

LOCATED AT

55 EAST 10 STREET, NEW YORK, NY10003

FOR

New York University

**TEST RESULTS
FOR A
STEAM BOILER**

A Confidential Report
Prepared by
Intellidyne LLC



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Test Report

Report No. 12166

Date: 03/16/10

Customer:

New York University
 740 Broadway, New York, NY 10003

Contact: Cesil Scheib

Test Site Location:

NYU - Brittany Hall
 55 East 10 Street, New York, NY 10003

Test Type: HEATING AIR CONDITIONING REFRIGERATION OTHER: _____

Product Tested: HW LCH LCS CHW CHS AC CAC RU OTHER: _____

Type of Equipment:

Manufacturer: RockMills
 Model: MP200
 Capacity / SetPt: 200 HP / 4-5 psi, aquastat 175 F
 Fuel Type: #6 Fuel Oil
 Application: Steam Boiler For Heat with DHW coil
 Area Served: Whole Bldg.
 Misc.

Test Start Date: 01/22/10
 Test End Date: 02/22/10
 No. of Days in Test: 32

BURNER RUN-TIME:

in HRS. in MIN.

IntelliCon ON-DAYS: 150:53:47

IntelliCon OFF-DAYS: 164:26:29

RUN-TIME was reduced by: 8.24%

BURNER USAGE FACTOR:

IntelliCon On-Days: 39%

IntelliCon Off-Days: 43%

HEATING DEGREE-DAYS (FOR TEST PERIOD)

IntelliCon ON-DAYS: 283

It was 5.6% Colder on the On-Days.

IntelliCon OFF-DAYS: 268

Total Degree-Days: 551

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

IntelliCon ON-DAYS: 322194

IntelliCon OFF-DAYS: 417575

It was 22.84% Sunnier on the OFF-Days.

BURNER CYCLING REDUCTION:

IntelliCon ON-DAYS: 333

IntelliCon OFF-DAYS: 404

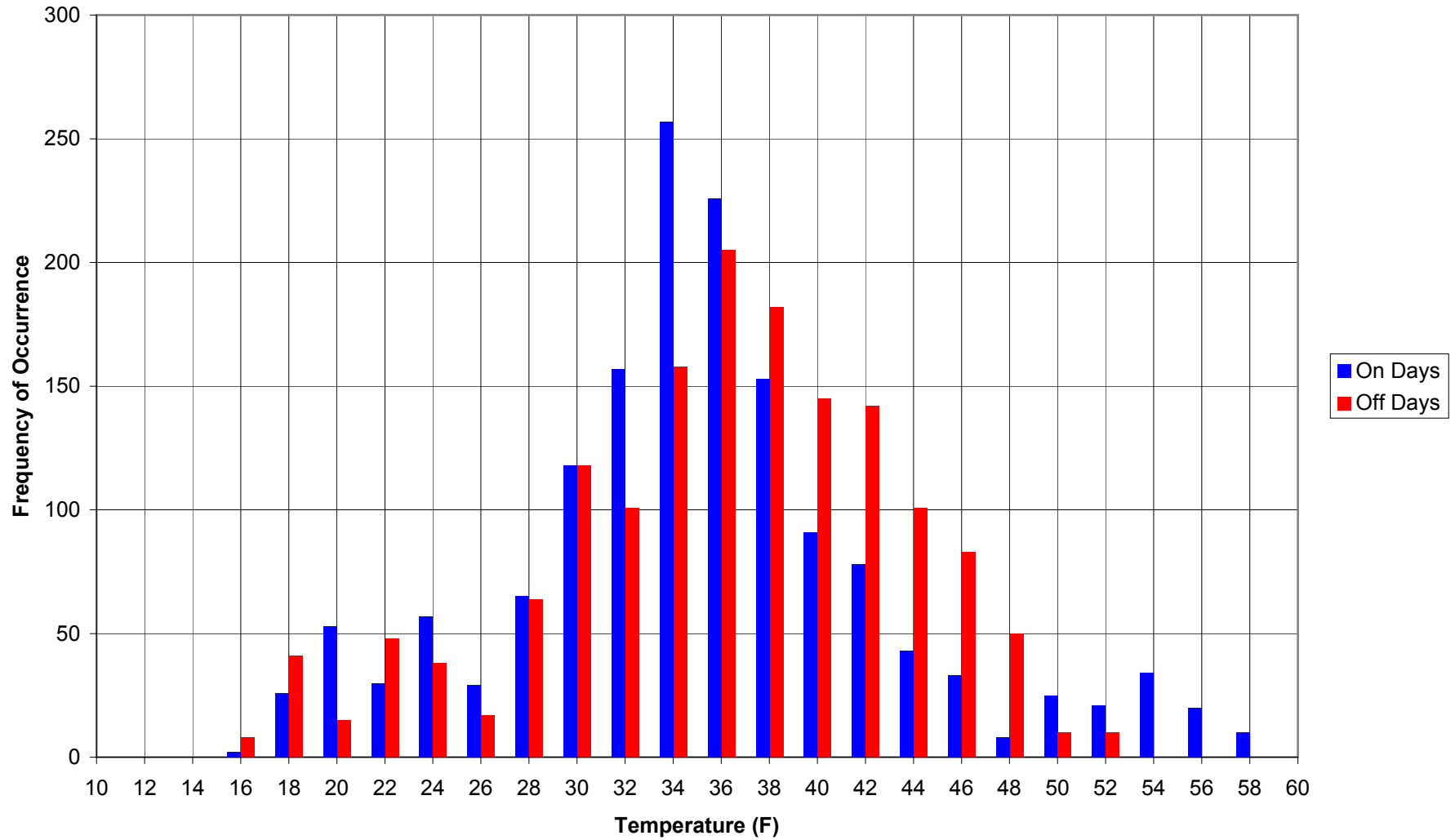
Cycling was reduced by: 17.6%

Savings = 13.09%

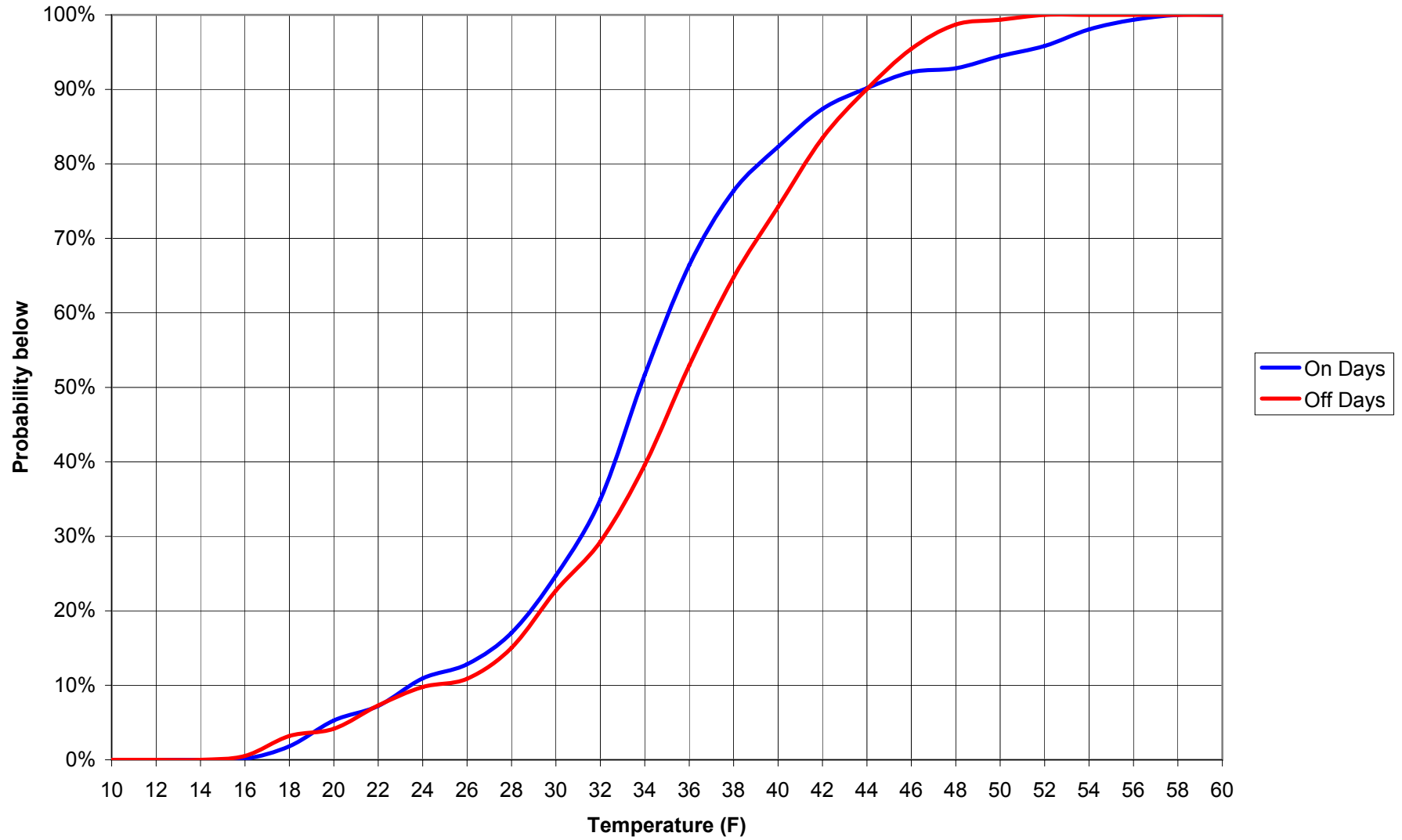
COMMENTS:

Note: Even though it was more than 22% sunnier on the Off-Days, the level of Lumens/ft² was such a low level that solar influence was negligible and NOT compensated for. The effect of compensation would have yielded higher savings results. The savings results were normalized for Heating Degree-Days only.

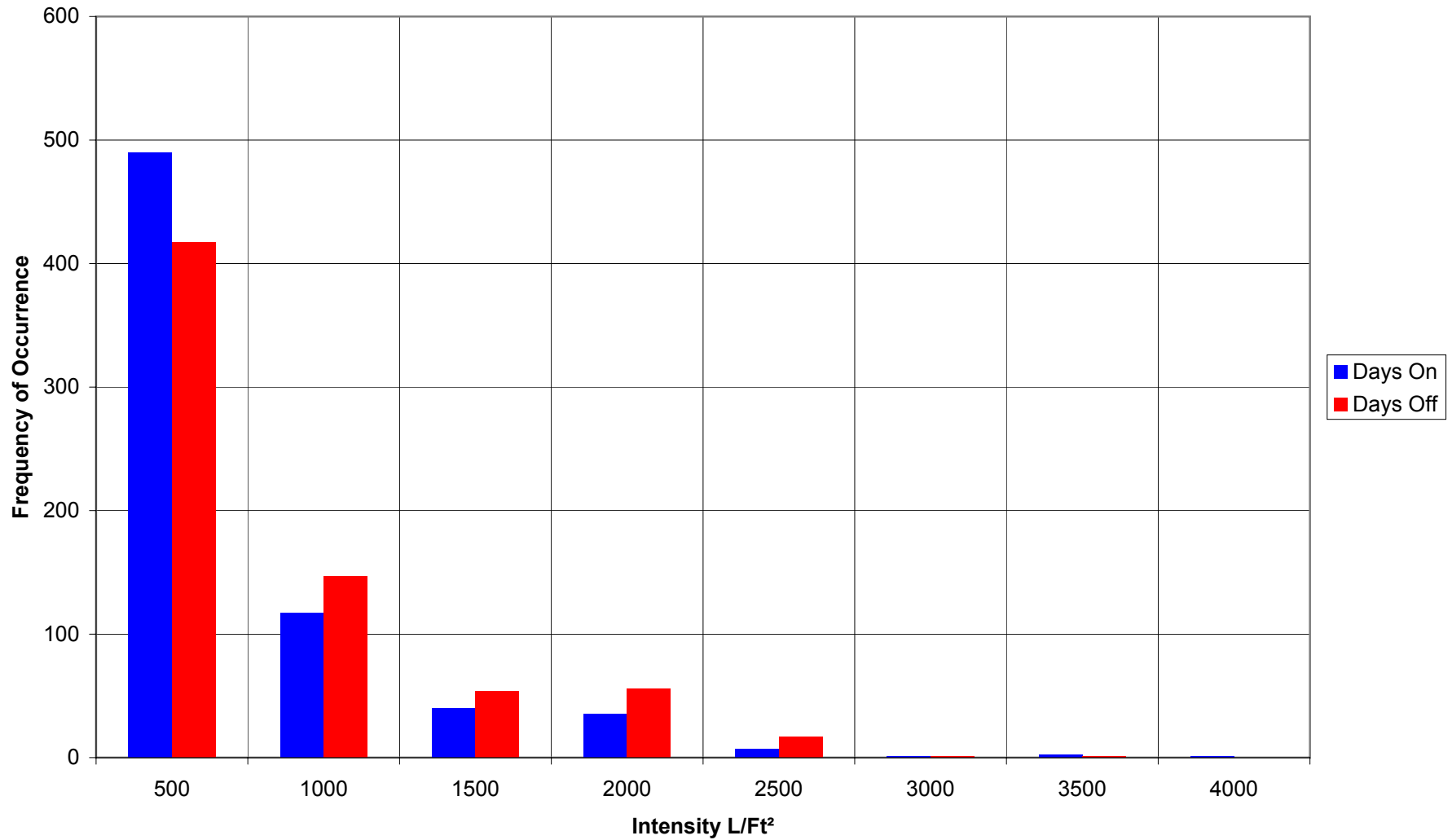
NYU - Brittany Hall
Outside Air Temperature Histogram (1/22/10 - 2/22/10)



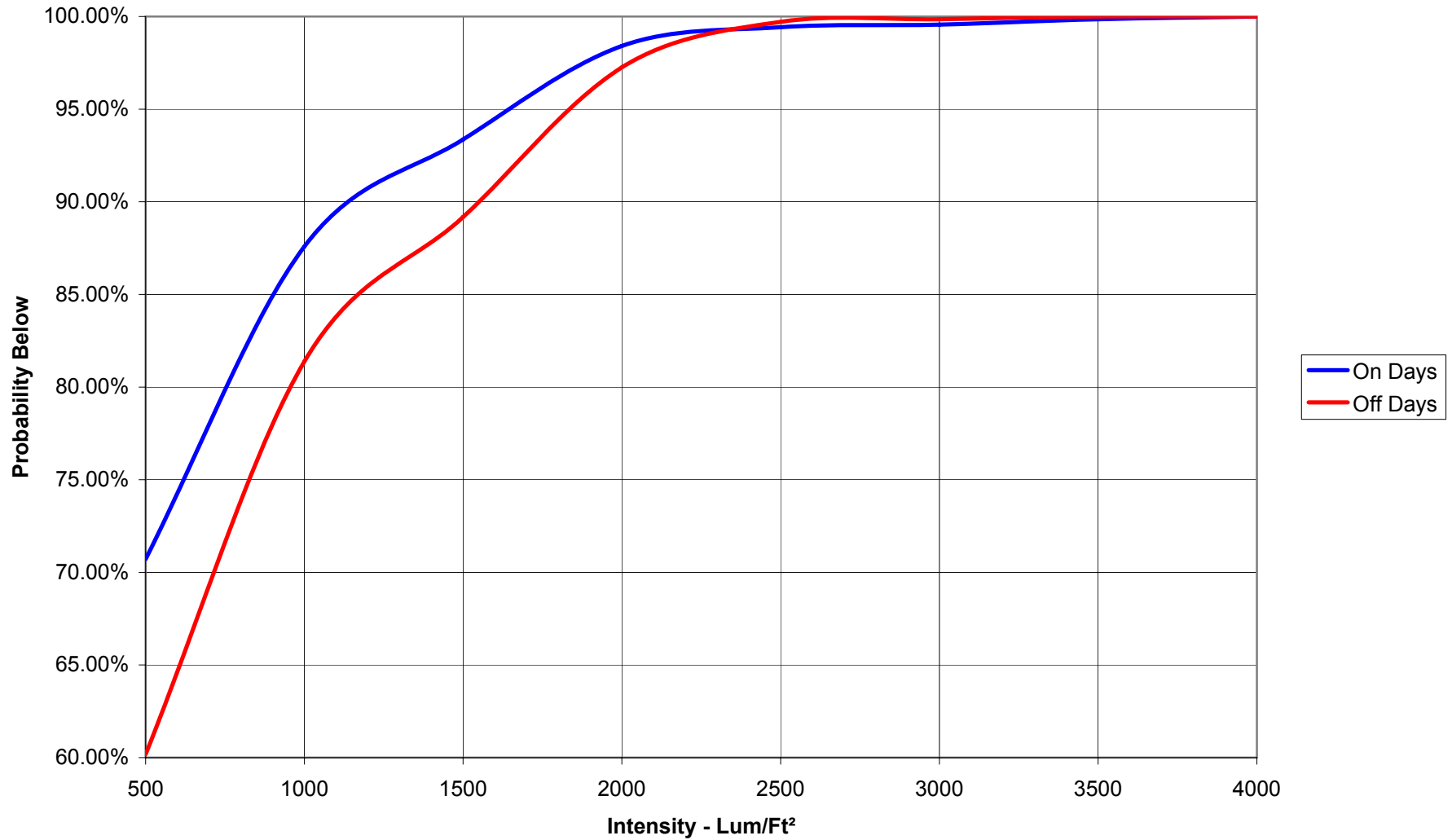
NYU - Brittany Hall Outside Air Temperature Probabilities (1/22/10 - 2/22/10)



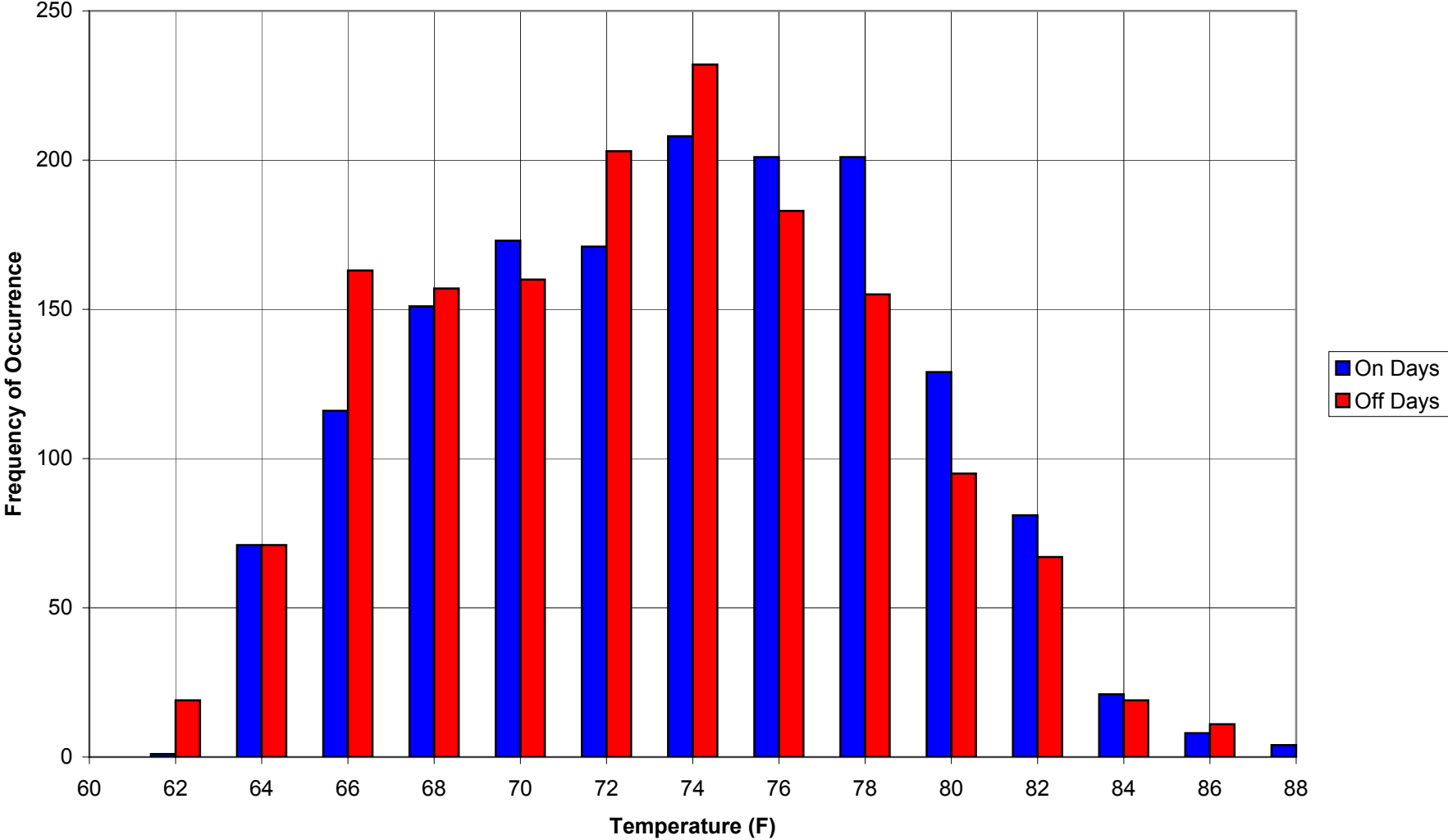
NYU - Brittany Hall
Solar Influence Histogram (1/22/10 - 2/22/10)



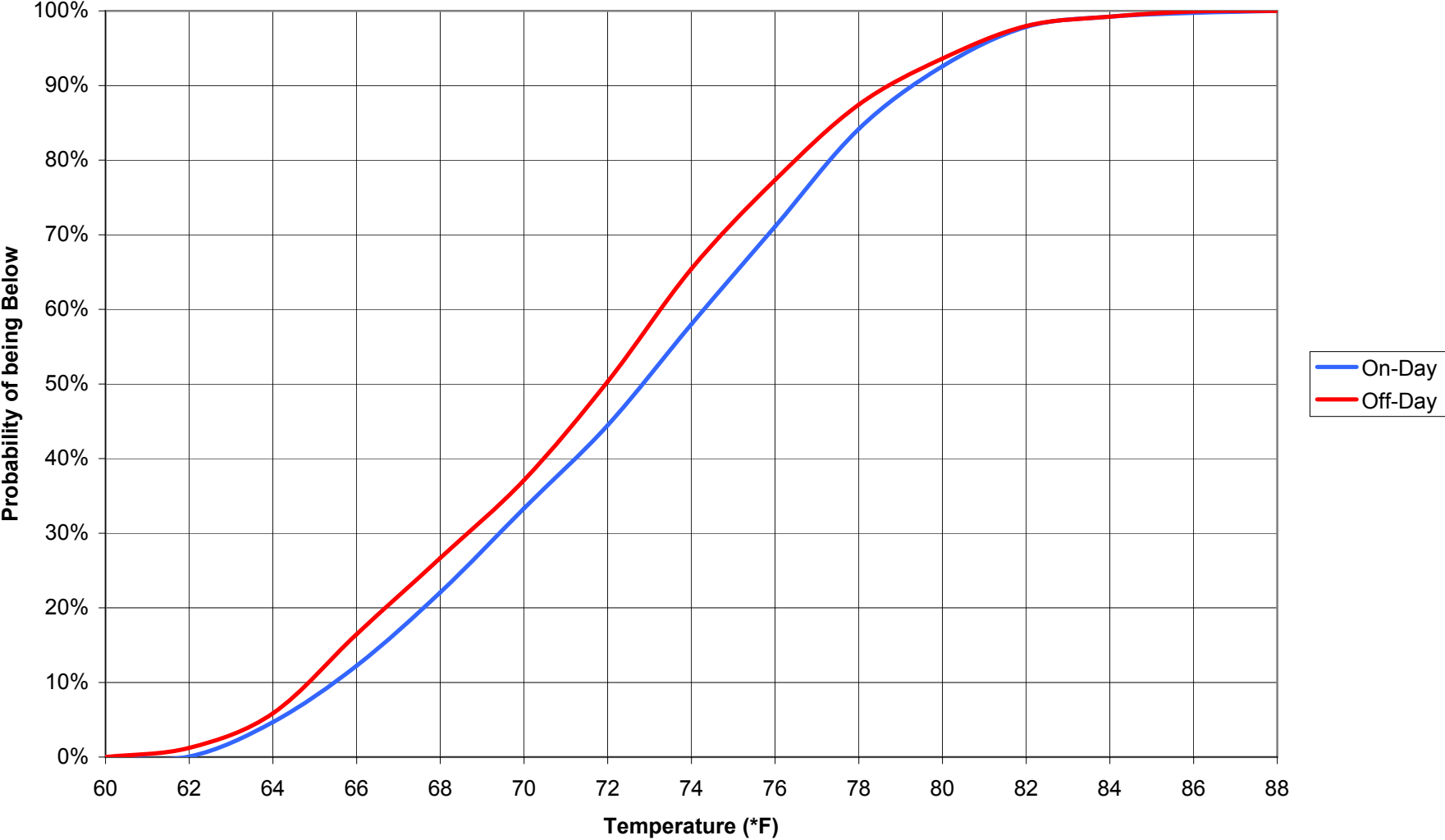
NYU - Brittany Hall
Solar Influence Probabilities (1/22/10 - 2/22/10)



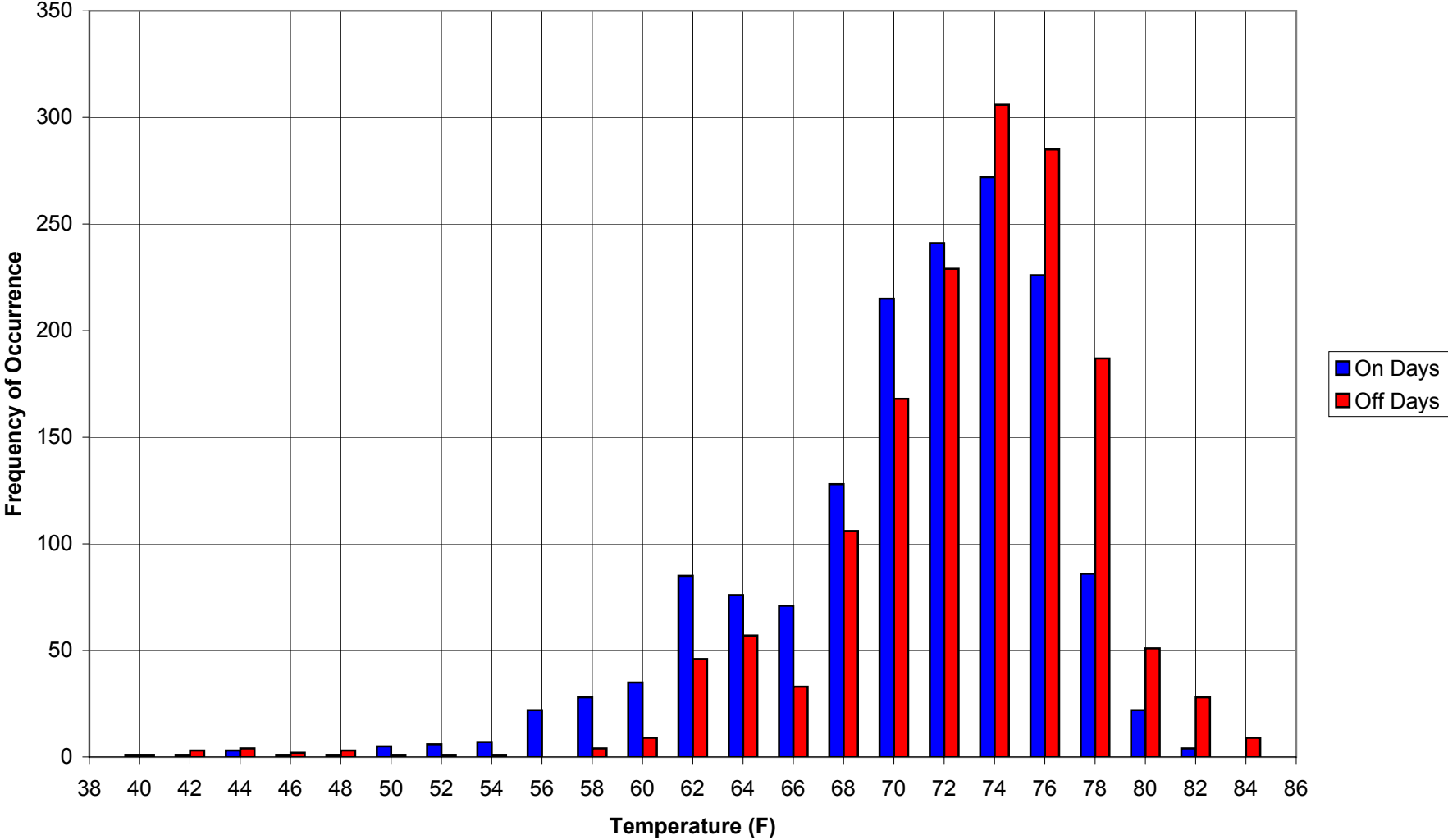
NYU - Brittany Hall, Room 1607A
Space Temperature Histogram (1/22/10 - 2/22/10)



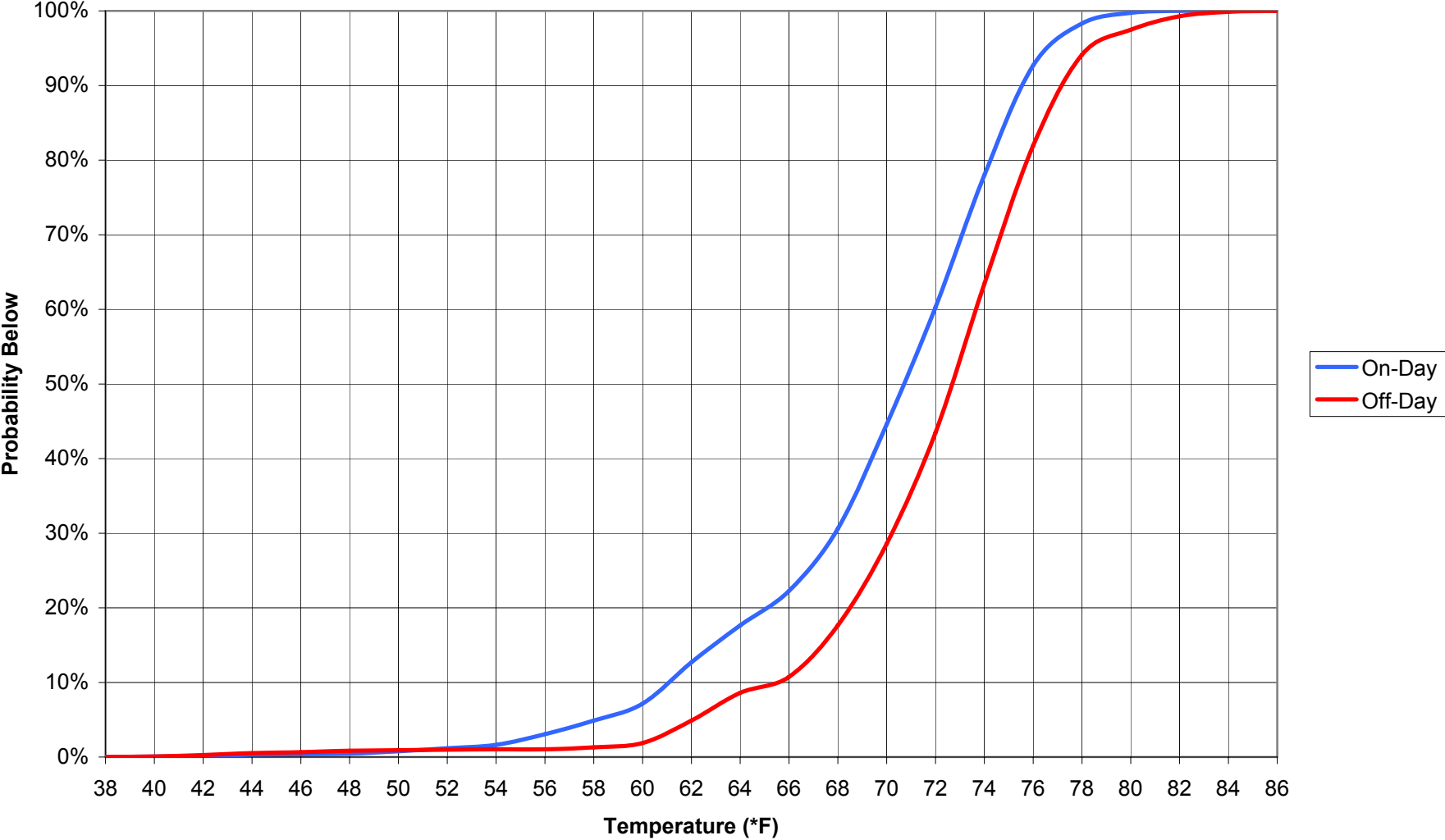
NYU - Brittany Hall, Room 1607A
Space Temperature Histogram (1/22/10 - 2/22/10)



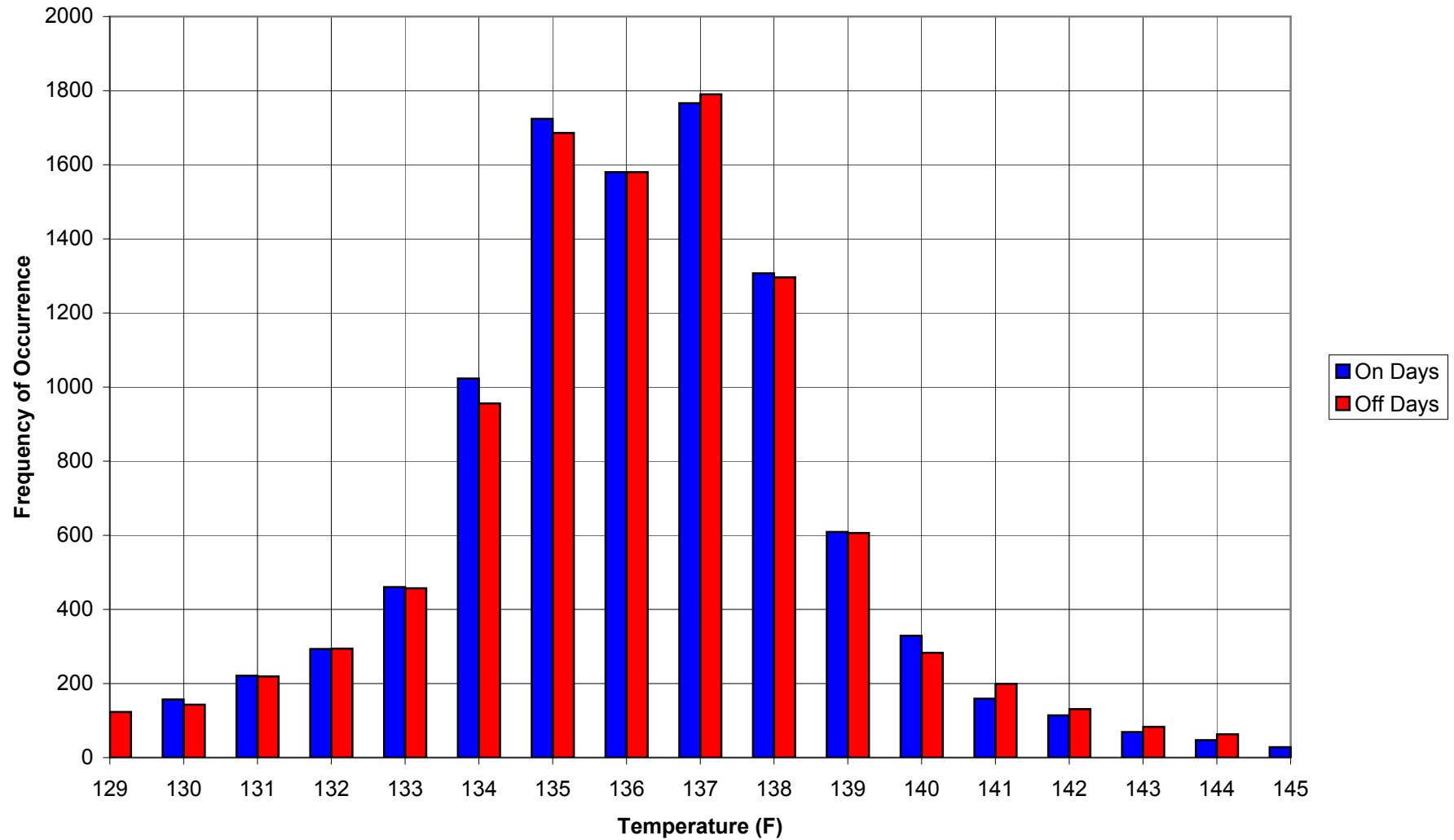
NYU - Brittany Hall, Room 1607A
Space Temperature Histogram (1/22/10 - 2/22/10)



NYU - Brittany Hall, Room 1607A
Space Temperature Histogram (1/22/10 - 2/22/10)



NYU - Brittany Hall
Domestic Hot-Water Histogram (1/22/10 - 2/22/10)



NYU - Brittany Hall
Domestic Hot-Water Probabilities (1/22/10 - 2/22/10)

