



Report No. 12162
Date: 01/30/08

Fuel Reduction Pilot Program

CONDUCTED AT

CIVIL COURT HOUSE
&
COUNTY OFFICE BUILDING

FOR

Atlantic County, New Jersey

TEST RESULTS
FOR
HOT-WATER BOILERS

A Confidential Report
Prepared by
Intellidyne LLC



90 Pratt Oval
 Glen Cove, NY 11542
 Phone: 516-676-0777
 Fax: 516-676-2640

Test Report

Report No. 12162-1

Date: 01/30/08

Customer:

Atlantic County

Test Site Location:

County Office Building

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

Type of Equipment:

Manufacturer: Cleaver Brooks
 Model: CB900-125
 Capacity / SetPt: 5,175,000 BTU / 180 F
 Fuel Type: Natural Gas
 Application: Space Heating
 Area Served: Entire Building
 Misc. Water Temp reset by EMS through mixing valve

Test Start Date: 12/12/07
 Test End Date: 01/08/08
 No. of Days in Test: 28

BURNER RUN-TIME: in HRS. in MIN.
 IntelliCon ON-DAYS: 114:31:04
 IntelliCon OFF-DAYS: 125:29:22 RUN-TIME was reduced by: 8.74%

BURNER USAGE FACTOR:
 IntelliCon On-Days: 17%
 IntelliCon Off-Days: 19%

HEATING DEGREE-DAYS (FOR TEST PERIOD)
 IntelliCon ON-DAYS: 306 It was 3.0% Colder on the On-Days.
 IntelliCon OFF-DAYS: 297
 Total Degree-Days: 603

USAGE PER DEGREE-DAY
 ON-DAYS: 0:22:27
 OFF-DAYS: 0:25:21

SOLAR LOAD COMPENSATION: (Lumens/Sq. Ft.)
 IntelliCon ON-DAYS: 2678515
 IntelliCon OFF-DAYS: 3141900 It was 14.75% Sunnier on the OFF-Days.

Individual Boiler Data

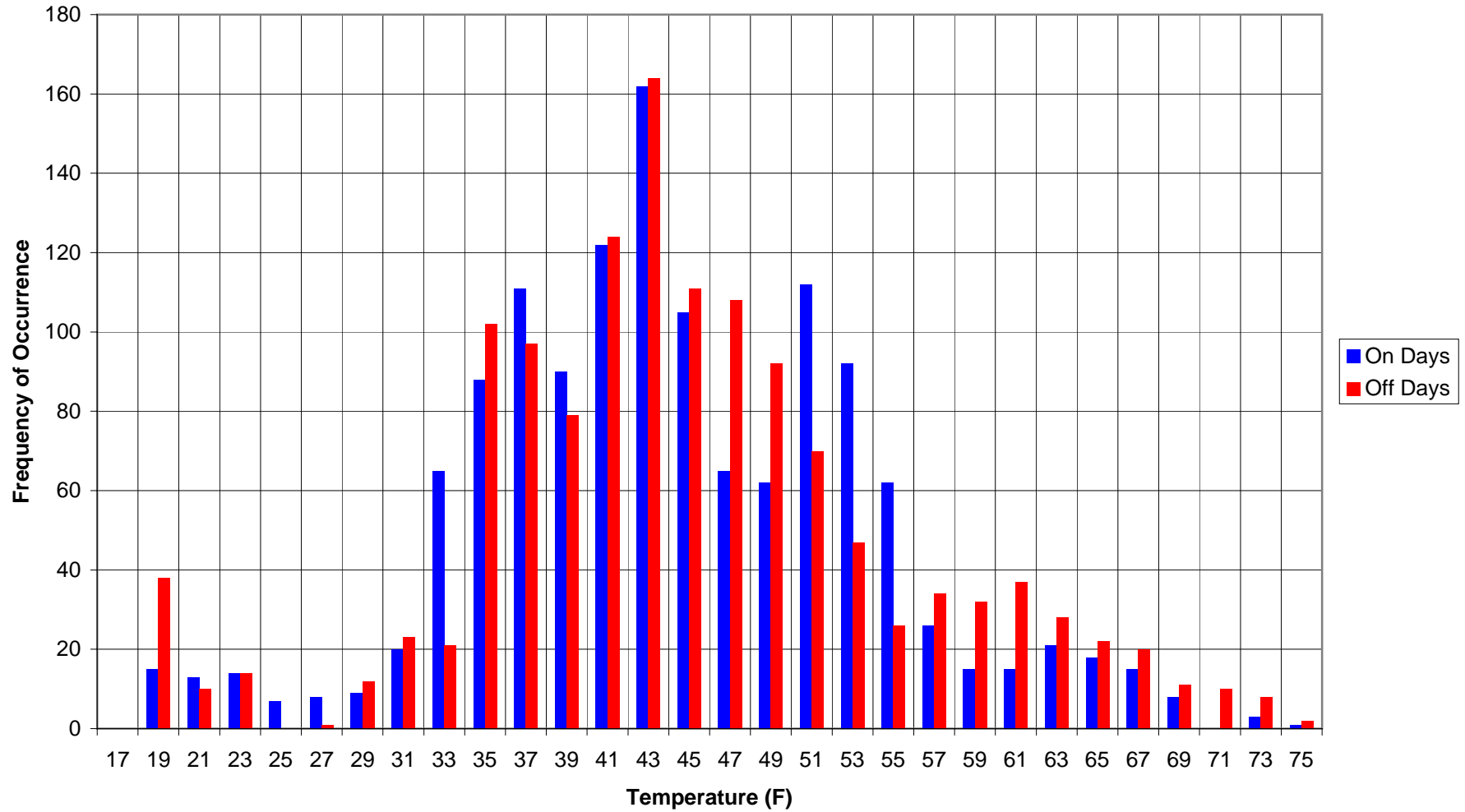
	ON-DAY	OFF-DAY
Boiler #1		
RT:	30:33:48	25:27:46
CYCLES:	185	419
Boiler #2		
RT:	83:57:16	100:01:36
CYCLES:	370	1211
Boiler #3		
RT:	N/U	N/U
CYCLES:		

BURNER CYCLING REDUCTION:
 IntelliCon ON-DAYS: 555
 IntelliCon OFF-DAYS: 1630 Cycling was reduced by: 66.0%

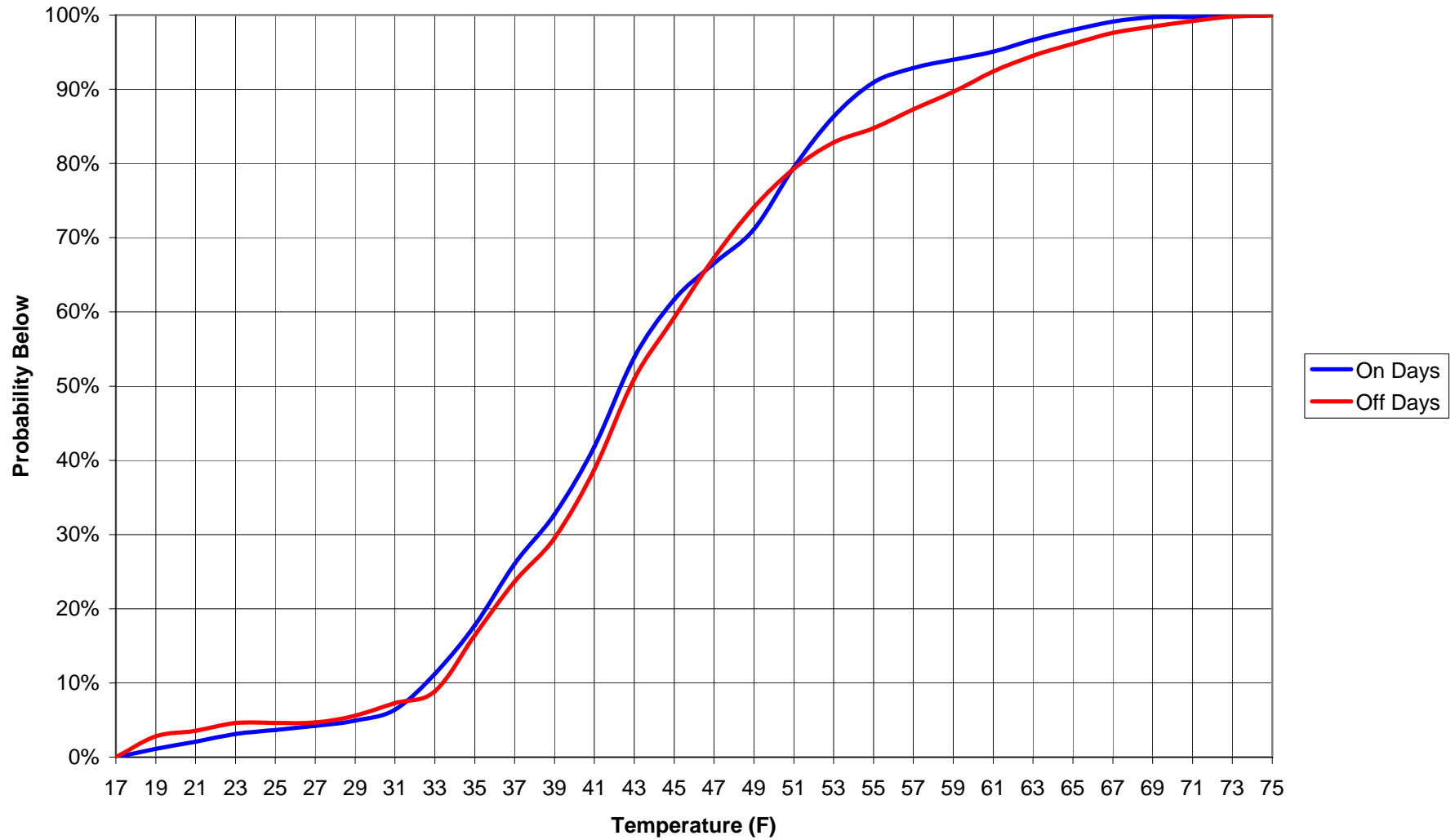
Adj. Savings = 12.88%

COMMENTS:

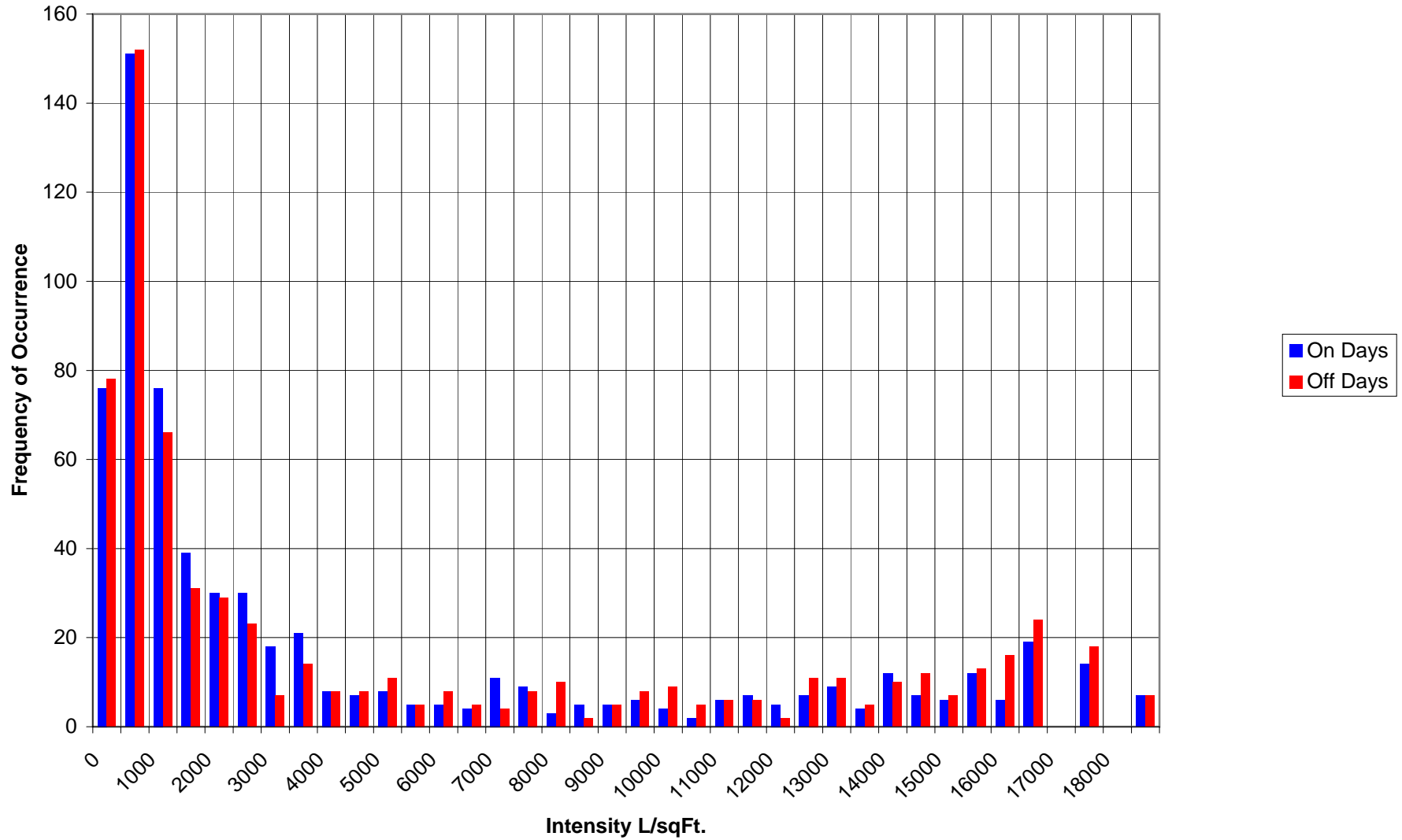
Atlantic City - County Office Building
Outside Air Temperature Histogram (12/12/07 - 1/8/08)



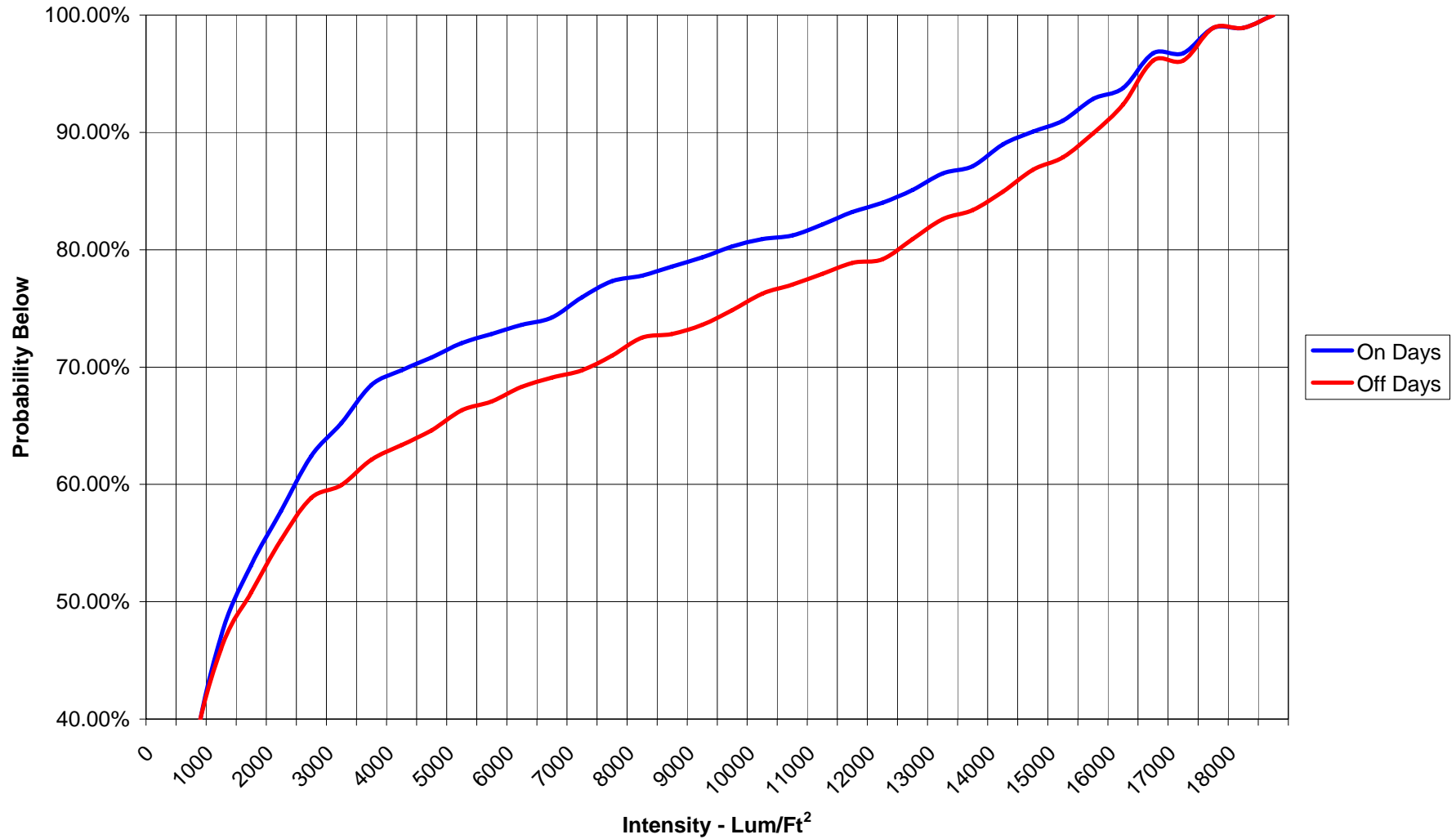
**Atlantic City - County Office Building
Outside Air Temperature Probabilities (12/12/07 - 1/8/08)**



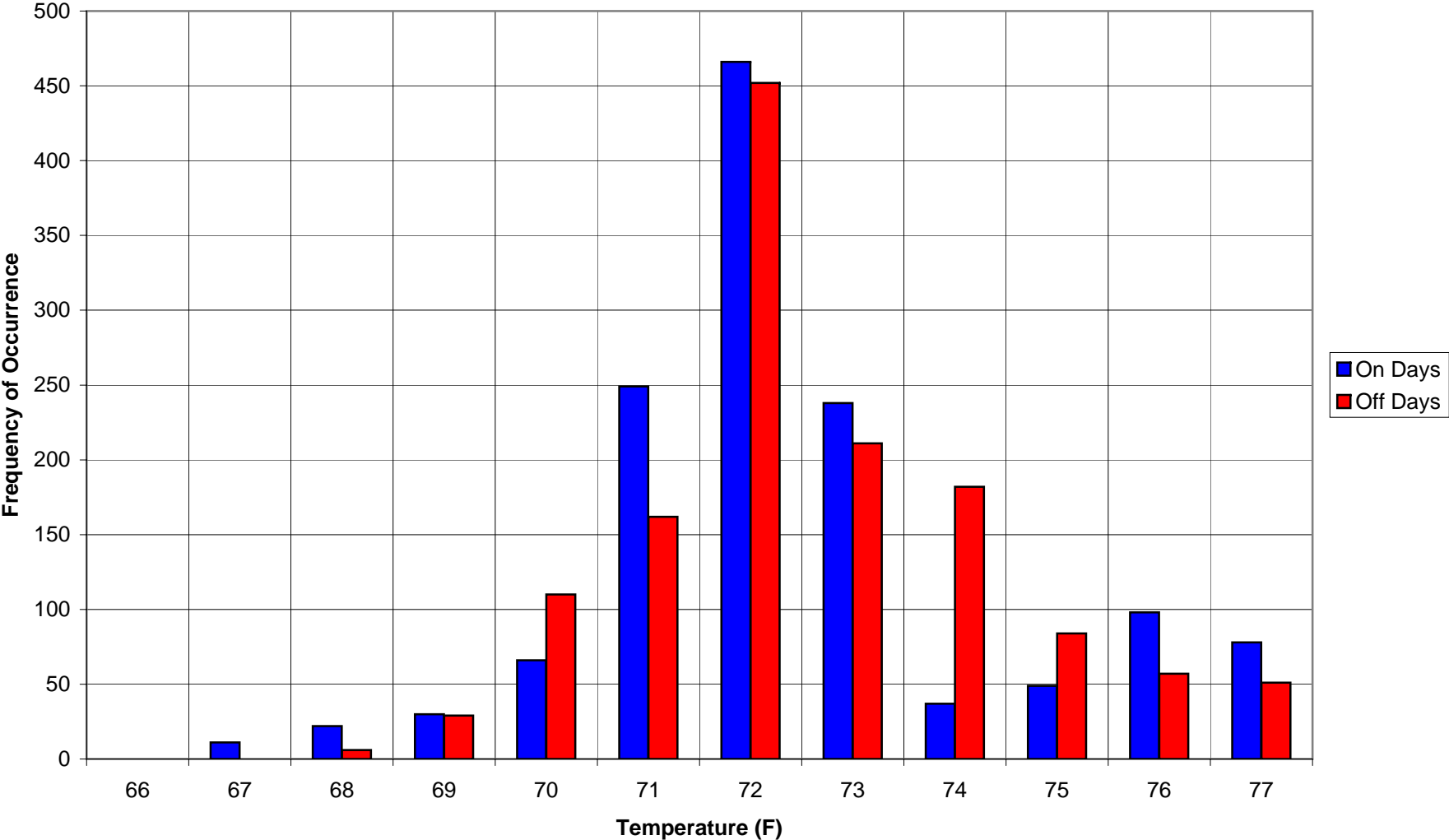
Atlantic City - County Office Building
Solar Influence Histogram (12/12/07 - 1/8/08)



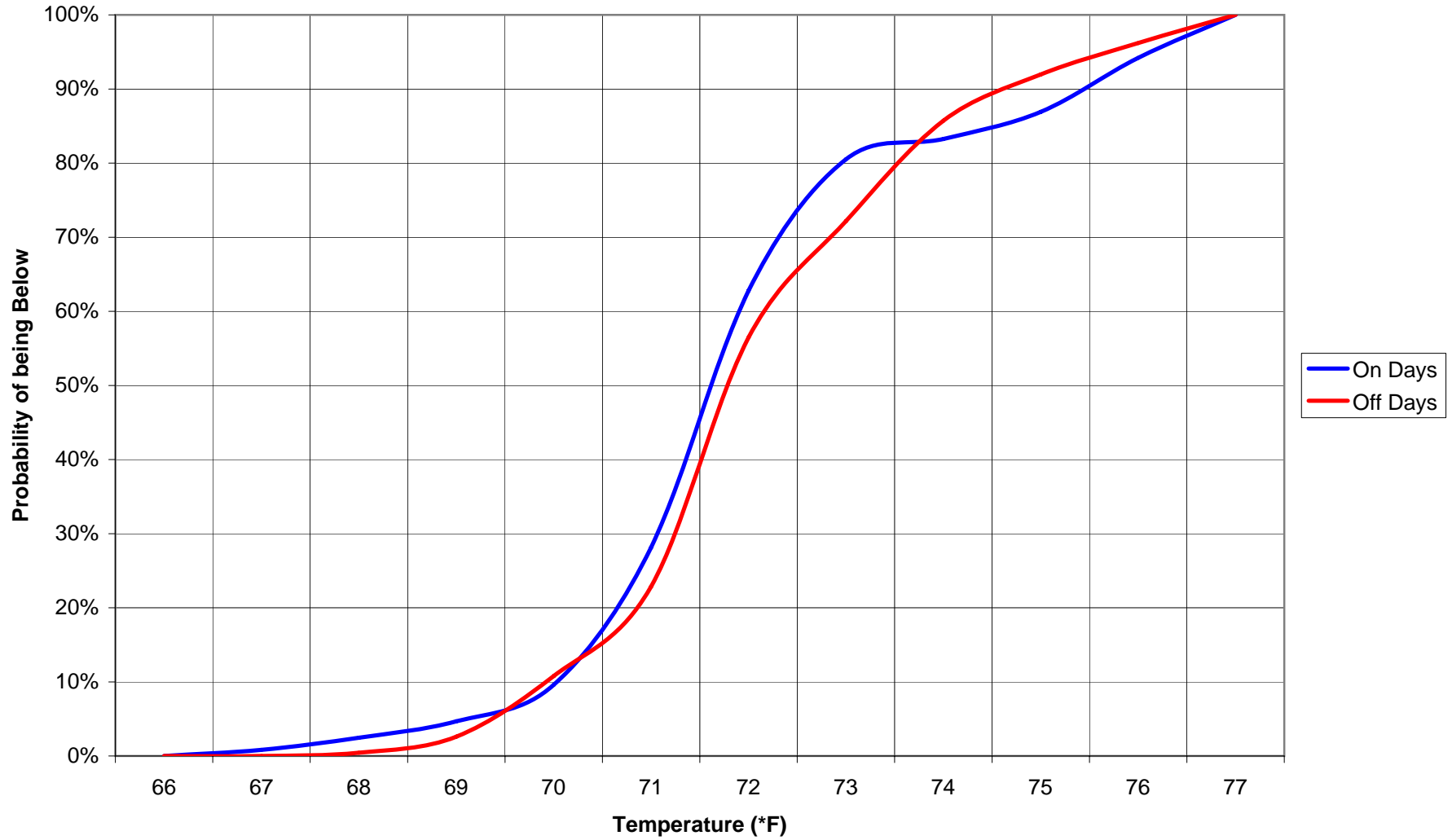
**Atlantic City - County Office Building
Solar Influence Probabilities (12/12/07 - 1/8/08)**



Atlantic City - County Office Building
Space Temperature Histogram (12/12/07 - 1/8/08)



Atlantic City - Civil Office Building
Space Temperature Probabilities (12/12/07 - 1/8/08)





90 Pratt Oval
 Glen Cove, NY 11542
 Phone: 516-676-0777
 Fax: 516-676-2640

Test Report

Report No. 12162-2

Date: 01/30/08

Customer:

Atlantic County

Test Site Location:

Civil Court House

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

Type of Equipment:

Manufacturer: Cleaver Brooks
 Model: CB900-125
 Capacity / SetPt: 5,175,000 BTU / 180 F
 Fuel Type: Natural Gas
 Application: Space Heating
 Area Served: Entire Building
 Misc. Water Temp reset by EMS through mixing valve

Test Start Date: 12/12/07
 Test End Date: 01/08/08
 No. of Days in Test: 28

BURNER RUN-TIME: in HRS. in MIN.
 IntelliCon ON-DAYS: 161:09:29
 IntelliCon OFF-DAYS: 172:22:11 RUN-TIME was reduced by: 6.50%

BURNER USAGE FACTOR:
 IntelliCon On-Days: 24%
 IntelliCon Off-Days: 26%

HEATING DEGREE-DAYS (FOR TEST PERIOD)
 IntelliCon ON-DAYS: 321 It was 3.6% Colder on the On-Days.
 IntelliCon OFF-DAYS: 310
 Total Degree-Days: 631

USAGE PER DEGREE-DAY
 ON-DAYS: 0:30:07
 OFF-DAYS: 0:33:22

SOLAR LOAD COMPENSATION: (Lumens/Sq. Ft.)
 IntelliCon ON-DAYS: 582478
 IntelliCon OFF-DAYS: 627225 It was 7.13% Sunnier on the OFF-Days.

Individual Boiler Data

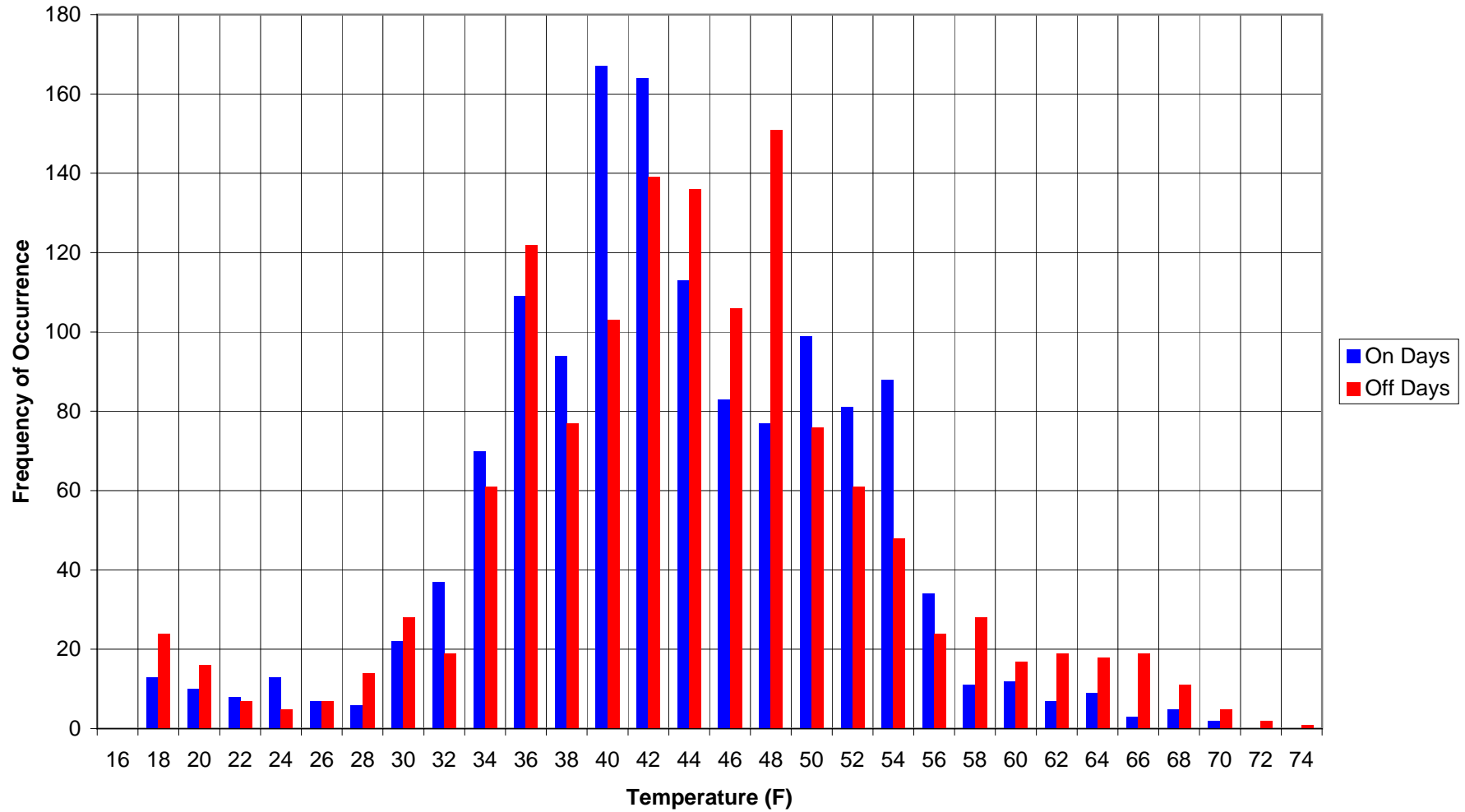
	ON-DAY	OFF-DAY
Boiler #1		
RT:	49:28:46	55:15:25
CYCLES:	232	514
Boiler #2		
RT:	111:40:43	117:06:46
CYCLES:	155	385
Boiler #3		
RT:	N/U	N/U
CYCLES:		

BURNER CYCLING REDUCTION:
 IntelliCon ON-DAYS: 387
 IntelliCon OFF-DAYS: 899 Cycling was reduced by: 57.0%

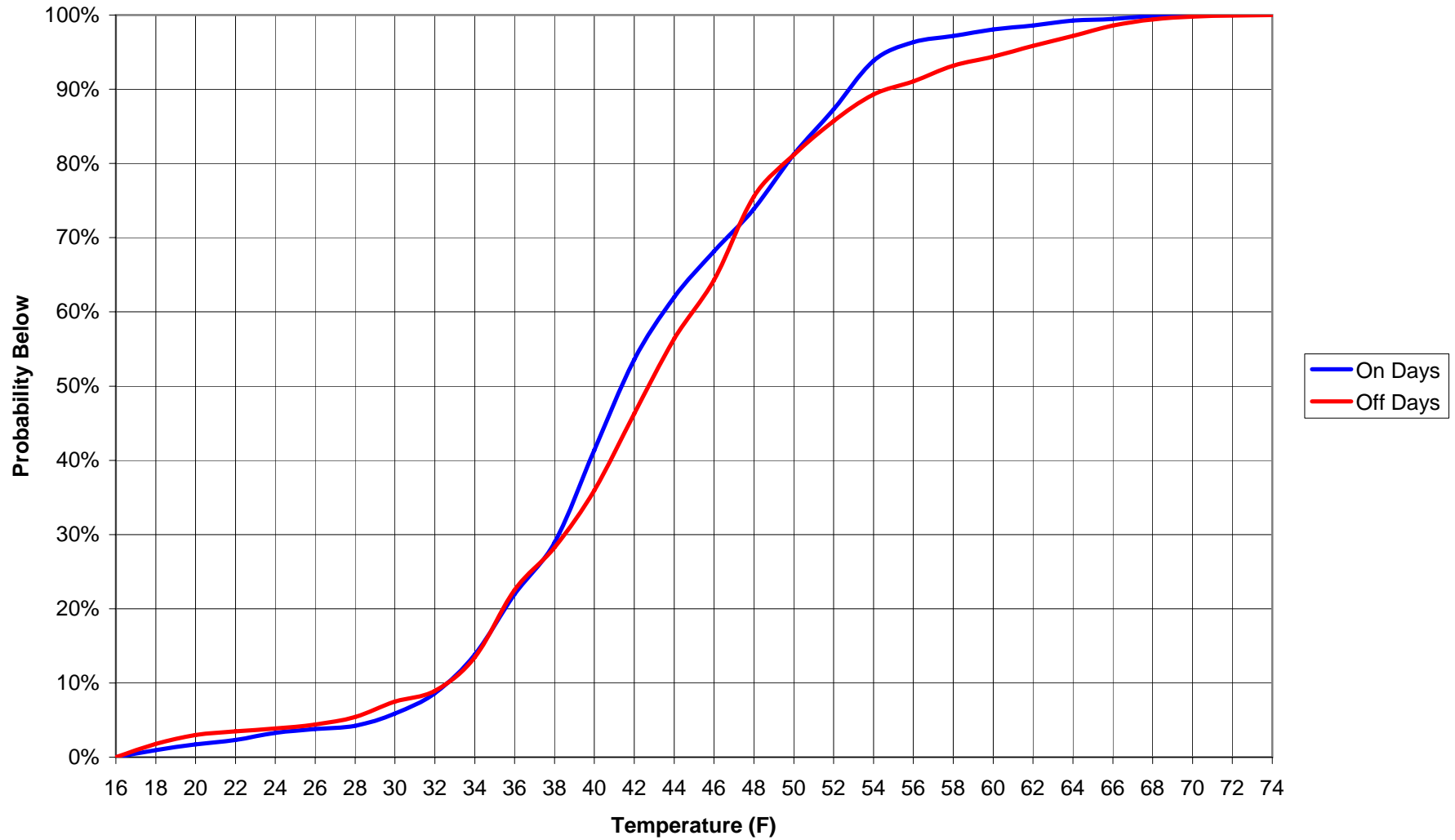
Adj. Savings = 10.83%

COMMENTS:

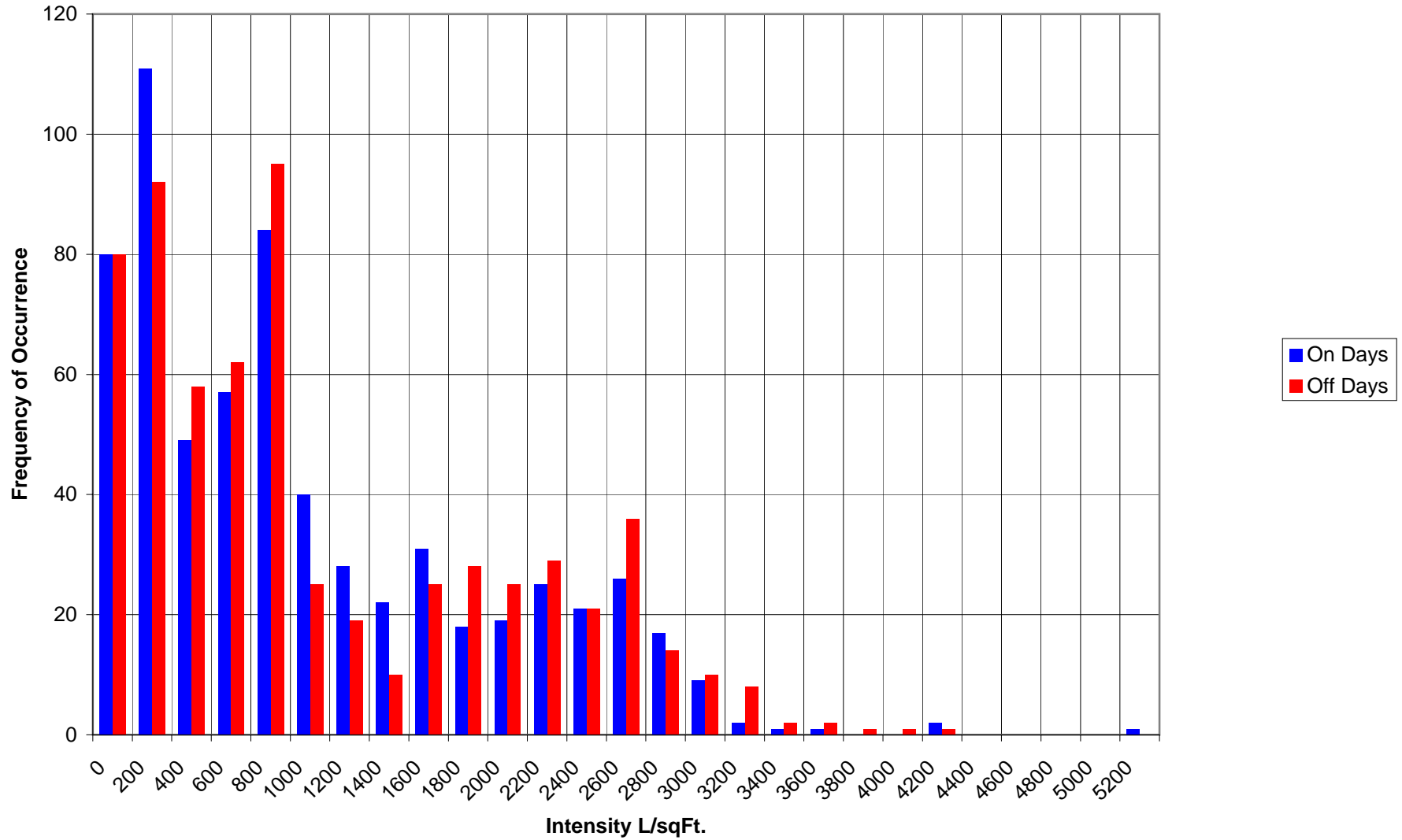
Atlantic City - Civil Court House
Outside Air Temperature Histogram (12/12/07 - 1/8/08)



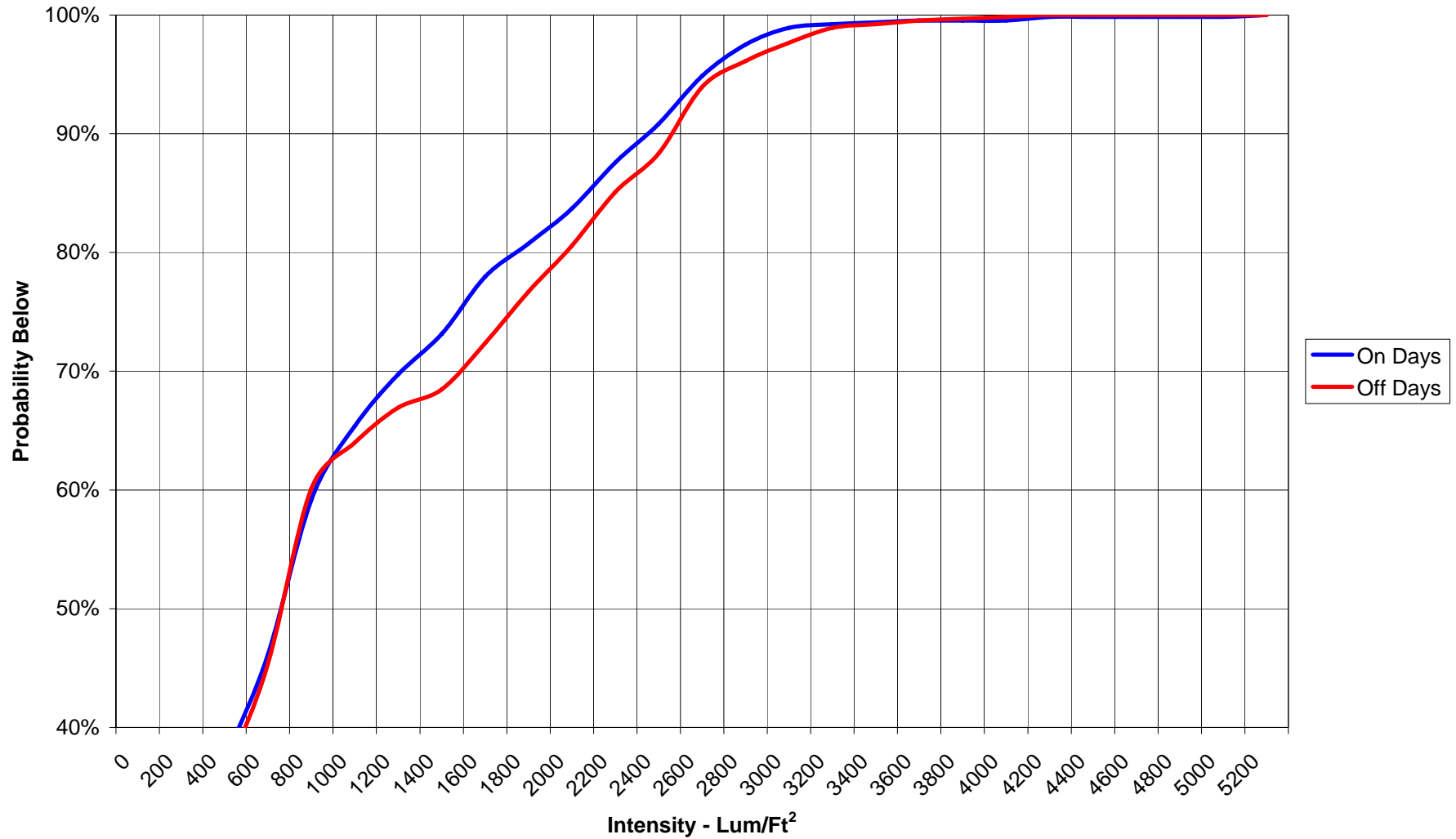
Atlantic City - Civil Court House
Outside Air Temperature Probabilities (12/12/07 - 1/8/08)



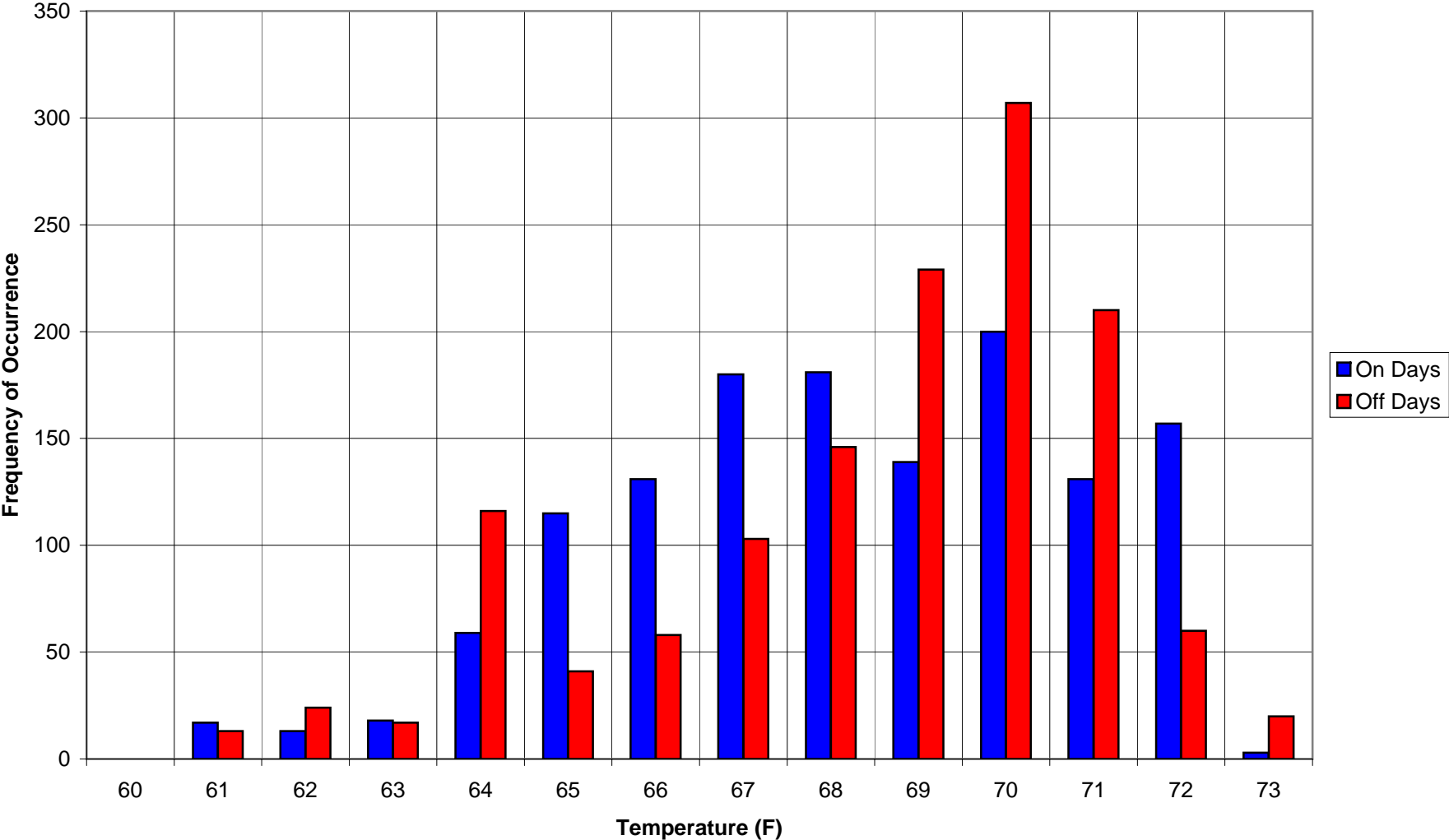
Atlantic City - Civil Court House
Solar Influence Histogram (12/12/07 - 1/8/08)



Atlantic City - Civil Court House
Solar Influence Probabilities (12/12/07 - 1/8/08)



Atlantic City - Civil Court House
Space Temperature Histogram (12/12/07 - 1/8/08)



**Atlantic City - Civil Court House
Space Temperature Probabilities (12/12/07 - 1/8/08)**

