



Report No. 12159
Date: 06/05/07

Fuel Reduction Pilot Program

CONDUCTED AT

MIDDLETOWN VILLAGE SCHOOL

FOR

Village of Middletown

TEST RESULTS
FOR
TWO STEAM BOILERS

A Confidential Report
Prepared by
Intellidyne LLC



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Test Report

Report No. 12159

Date: 06/06/07

Customer:

Village of Middletown

Test Site Location:

Middletown Village School
 147 Kings Highway
 Middletown, N.J., 07748

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

Type of Equipment:

Manufacturer: Weil McLain 88
 Model: 1288
 Capacity / SetPt: 3,753,000 BTU/hr / 3-5 PSI
 Fuel Type: Nat. Gas
 Application: Steam Heat
 Area Served: Entire School
 Misc.

Test Start Date: 03/07/07
 Test End Date: 04/29/07
 No. of Days in Test: 54

BURNER RUN-TIME: in HRS. in MIN.
 IntelliCon ON-DAYS: 58:50:55
 IntelliCon OFF-DAYS: 71:06:18 RUN-TIME was reduced by: 17.24%

BURNER USAGE FACTOR:
 IntelliCon On-Days: 4.5%
 IntelliCon Off-Days: 5.5%

HEATING DEGREE-DAYS (FOR TEST PERIOD)
 IntelliCon ON-DAYS: 474 It was 7.8% Warmer on the On-Days.
 IntelliCon OFF-DAYS: 514
 Total Degree-Days: 987

USAGE PER DEGREE-DAY
 ON-DAYS: 0:07:27
 OFF-DAYS: 0:08:18

SOLAR LOAD COMPENSATION: (Lumens/Sq. Ft.)
 IntelliCon ON-DAYS: 1152918
 IntelliCon OFF-DAYS: 1172347 It was 1.66% Sunnier on the OFF-Days.

Individual Runtimes

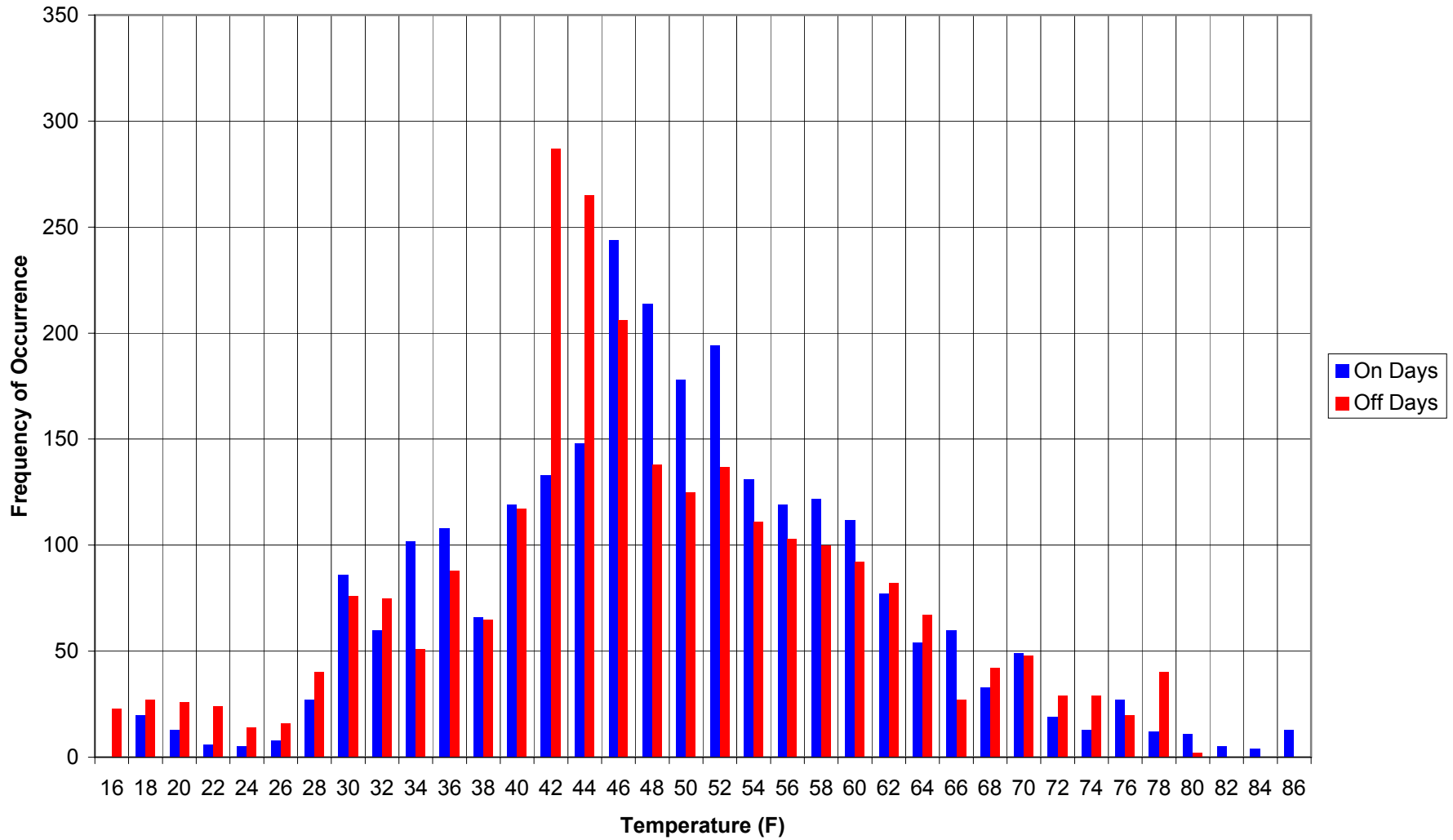
	Boiler #1	Boiler #2
ON-Day Runtime	30:01:18	28:49:37
Cycles	941	940
OFF-Day Runtime	34:39:09	36:27:09
Cycles	1077	1077

BURNER CYCLING REDUCTION:
 IntelliCon ON-DAYS: 1881
 IntelliCon OFF-DAYS: 2154 Cycling was reduced by: 12.7%

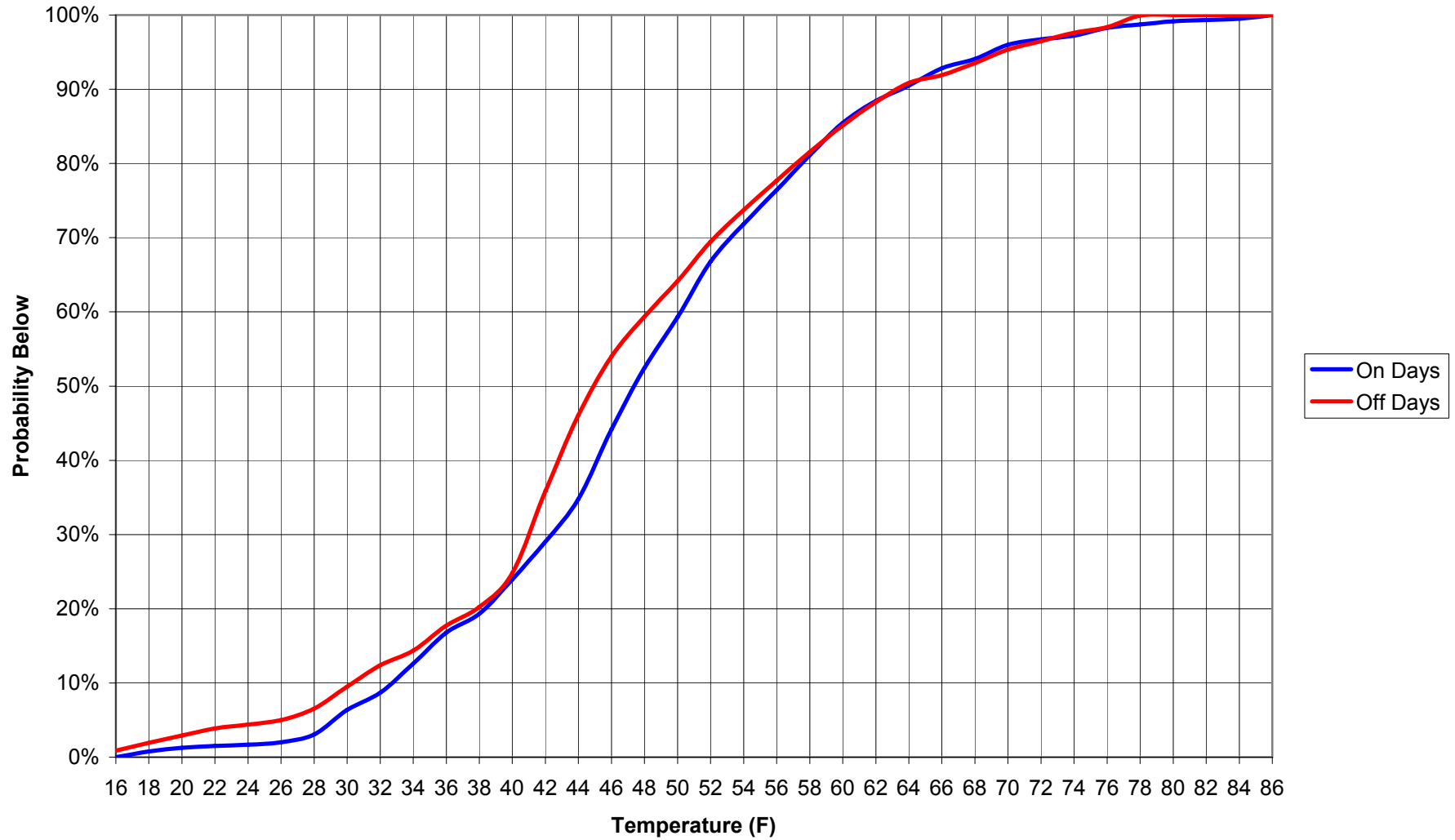
Adj. Savings = 10.20%

COMMENTS: Adjusted Savings were marginal due to the extremely low usage factors.

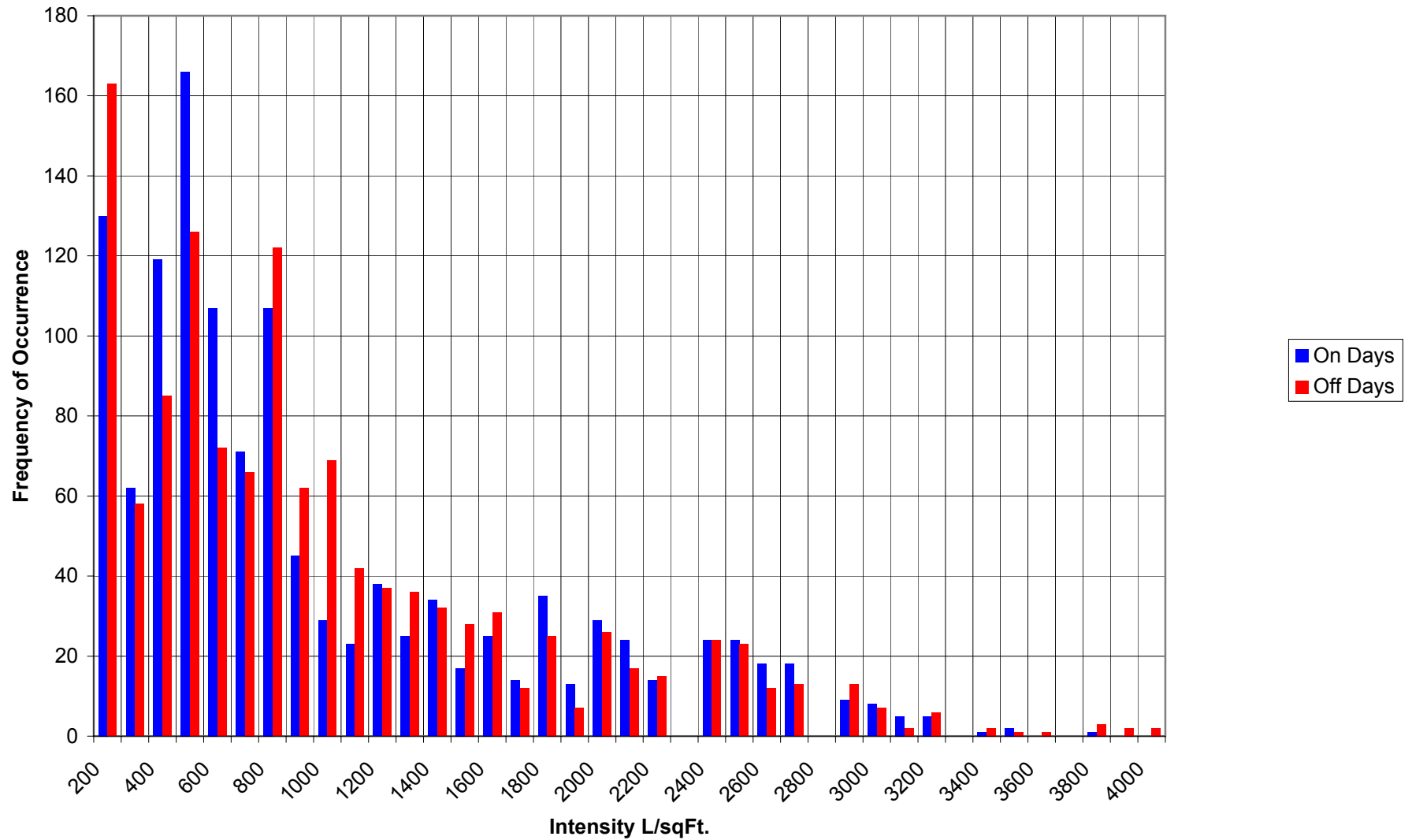
Middletown Village School
Outside Air Temp Histogram (03/07/07 - 4/29/07)



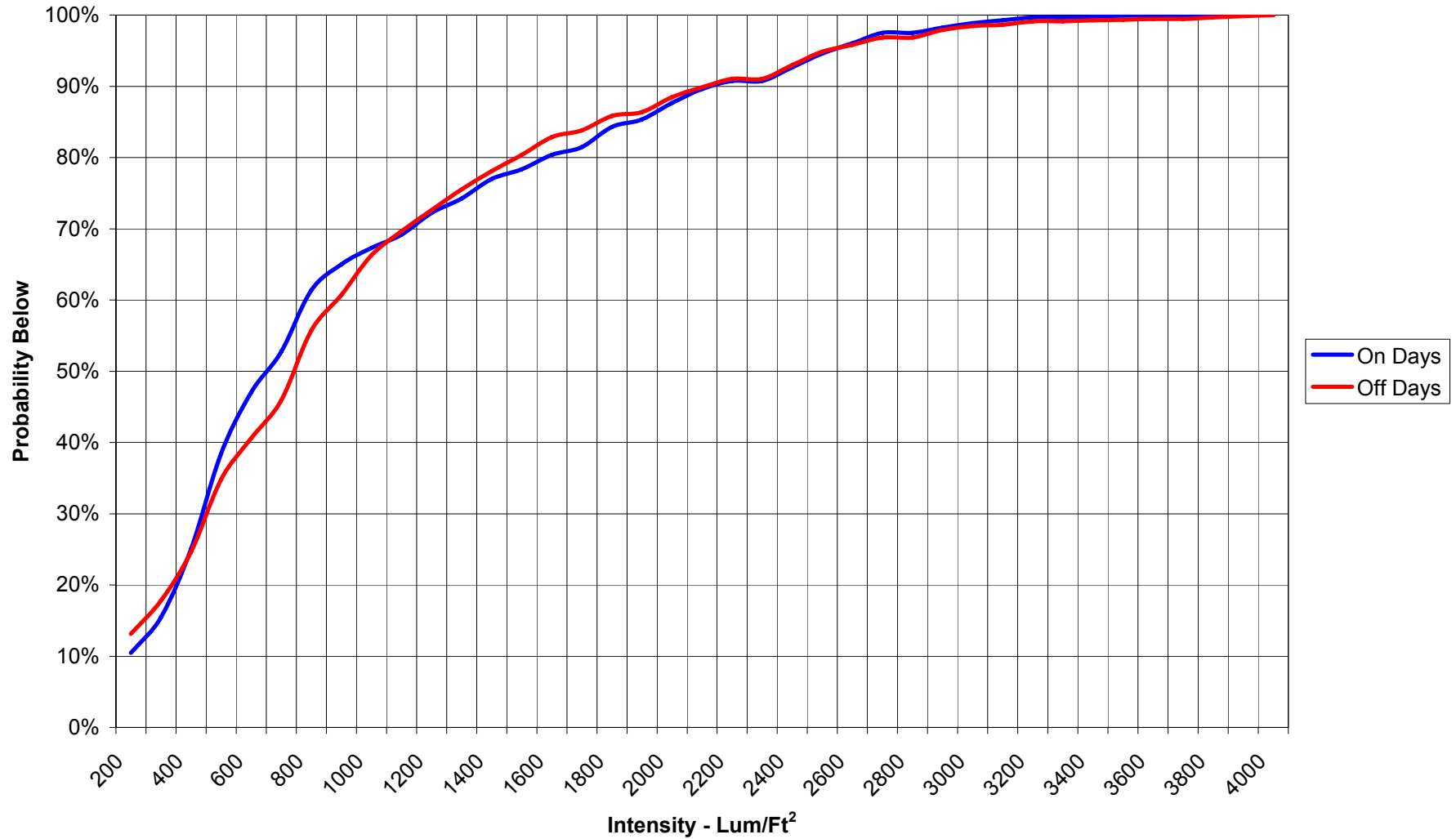
**Middletown Village School
OAT Temperature Probabilities (03/07/07 - 4/29/07)**



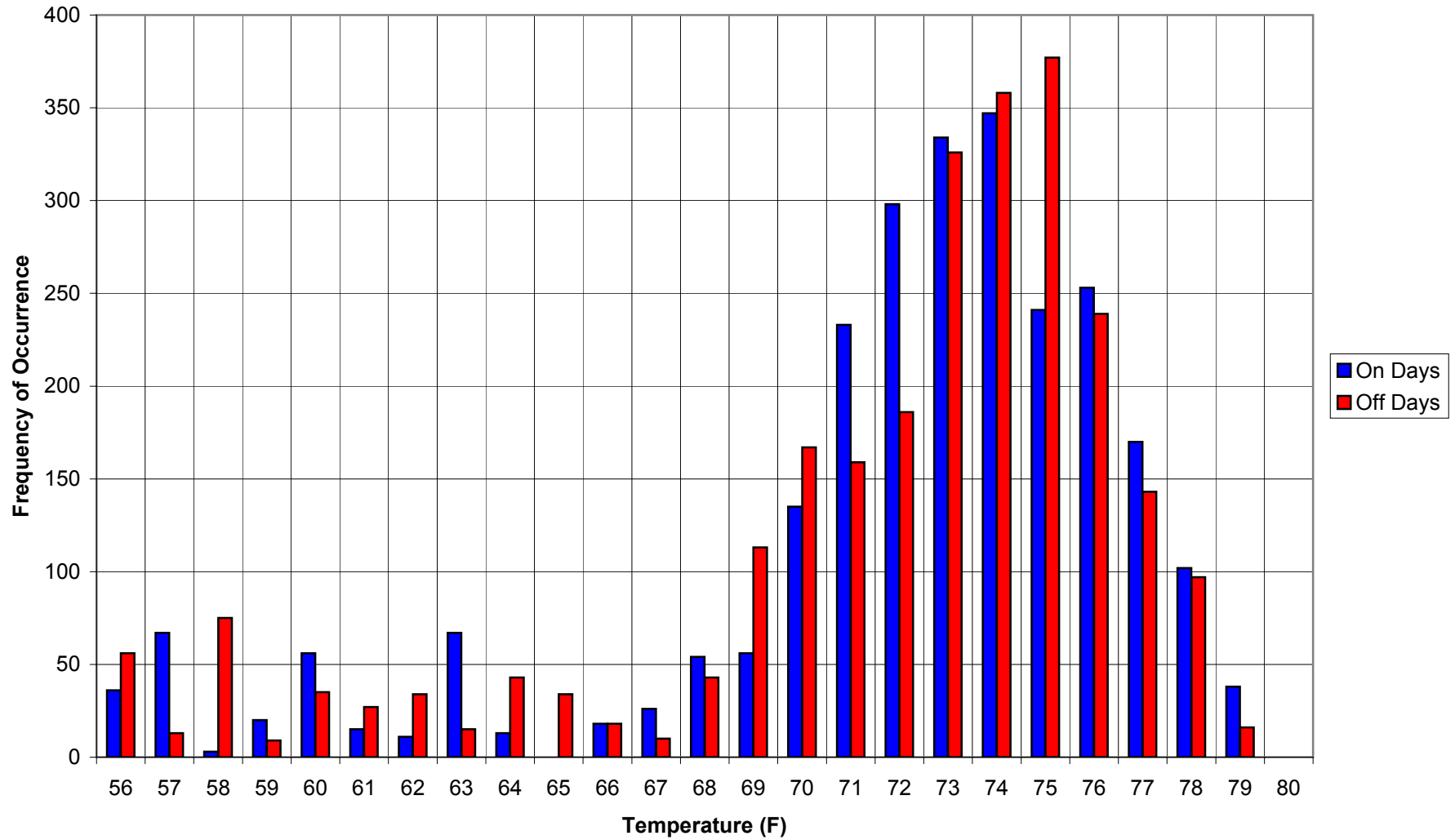
**Middletown Village School
Solar Influence Histogram (03/07/07 - 4/29/07)**



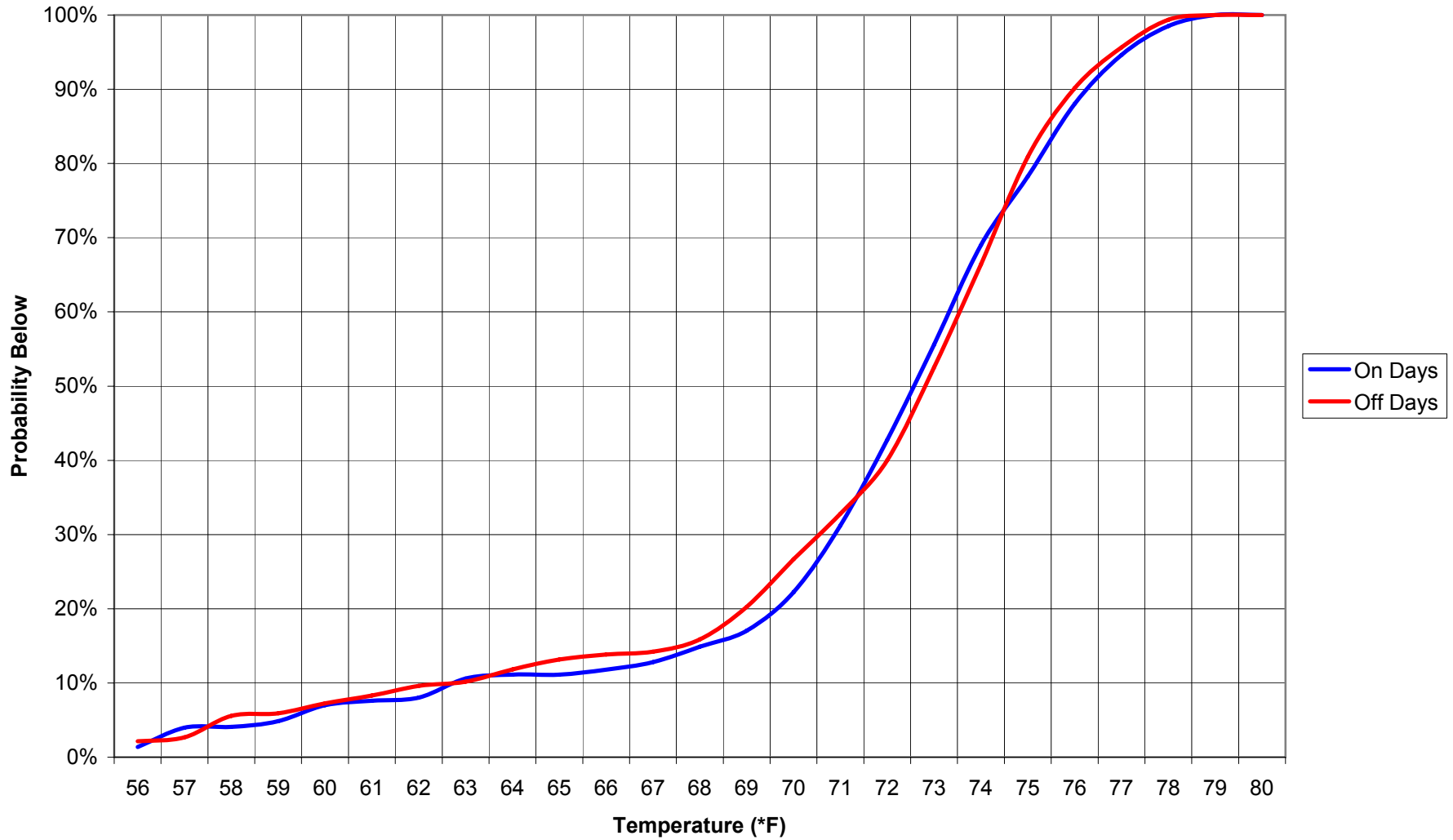
**Middletown Village School
Solar Influence Probabilities (03/07/07 - 4/29/07)**



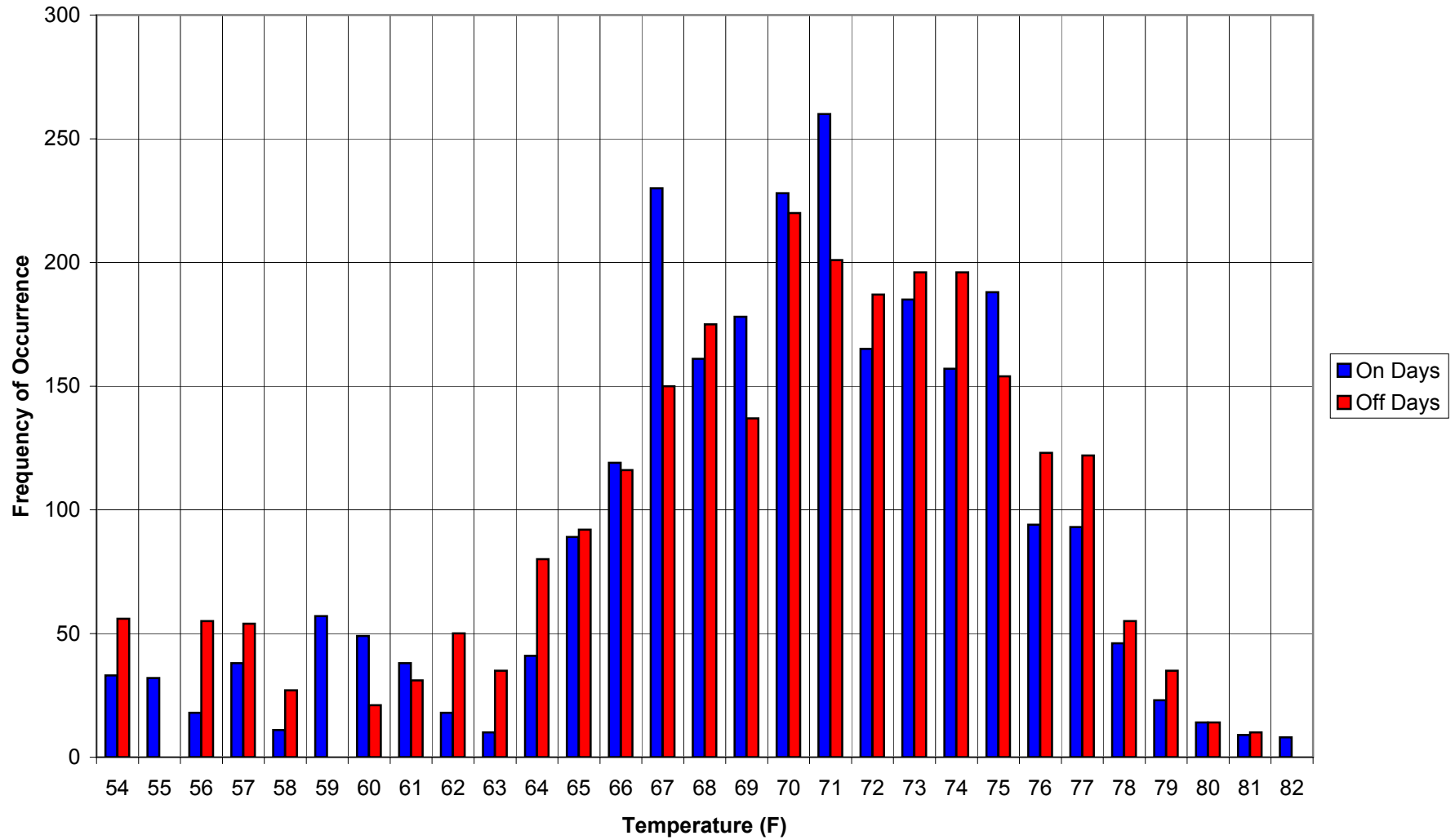
Middletown Village School
Classroom "A" Temperature Histogram (03/07/07 - 4/29/07)



**Middletown Village School
Classroom "A" Temperature Probabilities (03/07/07 - 4/29/07)**



Middletown Village School
Classroom "B" Temperature Histogram (03/07/07 - 4/29/07)



**Middletown Village School
Classroom "B" Temperature Probabilities (03/07/07 - 4/29/07)**

