

# **Appendix G**

## **Shadows**

**(Appendix G is new to the FEIS)**

## **A. INTRODUCTION**

This appendix presents estimates of the percentage of shadow coverage on the following project-generated open spaces in the future with the Proposed Actions in 2031:

- Greene Street Walk (South Block)
- Toddler Playground (South Block)
- Dog Run (proposed private space, South Block)
- Bleecker Seating Area (South Block)
- Mercer Entry Plaza (North Block)
- Tricycle Garden (North Block)
- Public Lawn and Philosophy Garden (North Block)
- Washington Square Village Play Garden (North Block)
- LaGuardia Play Garden (North Block)
- LaGuardia Entry Plaza (North Block)

The shadow coverage is estimated for each half-hour increment during the representative analysis days recommended under CEQR. The shadow coverage estimates include all shadows that would occur in the Future with the Proposed Actions—i.e., those shadows cast by the proposed project’s buildings, as well as shadows cast by existing buildings. This cumulative information does not present the incremental project shadows as is done under CEQR as part of Chapter 6, “Shadows,” and therefore is not used to determine the potential for significant shadow impacts. Rather, it provides additional information for characterizing the quality of the proposed project’s open spaces for purposes of the open space assessment contained in Chapter 5, “Open Spaces.”

For comparative purposes, this appendix also presents estimates of the percentage shadow coverage of the following existing publicly accessible open spaces in the Proposed Development Area:

- Coles Playground (South Block)
- Coles Plaza (South Block)
- Mercer Playground (North Block)

\* Appendix G is new to the FEIS.

# GREENE STREET WALK (SOUTH BLOCK)

**December 21st Analysis Day**  
6 hours

Time	Approximate % Shadow Coverage
8:51 AM - 2:53 PM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	100%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	100%
1:10 PM	
1:20 PM	
1:30 PM	100%
1:40 PM	
1:50 PM	
2:00 PM	20%
2:10 PM	
2:20 PM	
2:30 PM	0%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

Time	Approximate % Shadow Coverage
7:36 AM - 4:29 PM	
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	90%
11:10 AM	
11:20 AM	
11:30 AM	90%
11:40 AM	
11:50 AM	
12:00 PM	90%
12:10 PM	
12:20 PM	
12:30 PM	80%
12:40 PM	
12:50 PM	
1:00 PM	70%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	10%
2:40 PM	
2:50 PM	
3:00 PM	20%
3:10 PM	
3:20 PM	
3:30 PM	30%
3:40 PM	
3:50 PM	
4:00 PM	60%
4:10 PM	
4:20 PM	
4:30 PM	70%

**May 6th Analysis Day**  
10 hours 50 mins

Time	Approximate % Shadow Coverage
6:27 AM - 5:18 PM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	90%
11:10 AM	
11:20 AM	
11:30 AM	90%
11:40 AM	
11:50 AM	
12:00 PM	80%
12:10 PM	
12:20 PM	
12:30 PM	30%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	20%
2:10 PM	
2:20 PM	
2:30 PM	30%
2:40 PM	
2:50 PM	
3:00 PM	50%
3:10 PM	
3:20 PM	
3:30 PM	60%
3:40 PM	
3:50 PM	
4:00 PM	70%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	70%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

Time	Approximate % Shadow Coverage
5:57 AM - 6:01 PM	
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	90%
8:40 AM	
8:50 AM	
9:00 AM	90%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	90%
11:40 AM	
11:50 AM	
12:00 PM	80%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	20%
1:40 PM	
1:50 PM	
2:00 PM	30%
2:10 PM	
2:20 PM	
2:30 PM	50%
2:40 PM	
2:50 PM	
3:00 PM	60%
3:10 PM	
3:20 PM	
3:30 PM	60%
3:40 PM	
3:50 PM	
4:00 PM	70%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	80%
5:10 PM	
5:20 PM	
5:30 PM	70%
5:40 PM	
5:50 PM	
6:00 PM	80%

# TODDLER PLAYGROUND (SOUTH BLOCK)

December 21st Analysis Day  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	90%
10:40 AM	
10:50 AM	
11:00 AM	80%
11:10 AM	
11:20 AM	
11:30 AM	70%
11:40 AM	
11:50 AM	
12:00 PM	60%
12:10 PM	
12:20 PM	
12:30 PM	30%
12:40 PM	
12:50 PM	
1:00 PM	20%
1:10 PM	
1:20 PM	
1:30 PM	10%
1:40 PM	
1:50 PM	
2:00 PM	10%
2:10 PM	
2:20 PM	
2:30 PM	20%
2:40 PM	
2:50 PM	

March 21st Analysis Day  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	90%
10:40 AM	
10:50 AM	
11:00 AM	90%
11:10 AM	
11:20 AM	
11:30 AM	70%
11:40 AM	
11:50 AM	
12:00 PM	50%
12:10 PM	
12:20 PM	
12:30 PM	30%
12:40 PM	
12:50 PM	
1:00 PM	10%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
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2:30 PM	0%
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2:50 PM	
3:00 PM	0%
3:10 PM	
3:20 PM	
3:30 PM	10%
3:40 PM	
3:50 PM	
4:00 PM	30%
4:10 PM	
4:20 PM	
4:30 PM	80%

May 6th Analysis Day  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	90%
8:40 AM	
8:50 AM	
9:00 AM	90%
9:10 AM	
9:20 AM	
9:30 AM	90%
9:40 AM	
9:50 AM	
10:00 AM	80%
10:10 AM	
10:20 AM	
10:30 AM	70%
10:40 AM	
10:50 AM	
11:00 AM	60%
11:10 AM	
11:20 AM	
11:30 AM	40%
11:40 AM	
11:50 AM	
12:00 PM	20%
12:10 PM	
12:20 PM	
12:30 PM	10%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	10%
2:40 PM	
2:50 PM	
3:00 PM	20%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	50%
4:10 PM	
4:20 PM	
4:30 PM	60%
4:40 PM	
4:50 PM	
5:00 PM	70%
5:10 PM	
5:20 PM	

June 21st Analysis Day  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	90%
9:10 AM	
9:20 AM	
9:30 AM	80%
9:40 AM	
9:50 AM	
10:00 AM	70%
10:10 AM	
10:20 AM	
10:30 AM	60%
10:40 AM	
10:50 AM	
11:00 AM	40%
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11:30 AM	20%
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12:00 PM	10%
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3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	70%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	80%
5:10 PM	
5:20 PM	
5:30 PM	80%
5:40 PM	
5:50 PM	
6:00 PM	80%

# PROPOSED DOG RUN (SOUTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	90%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	90%
11:40 AM	
11:50 AM	
12:00 PM	90%
12:10 PM	
12:20 PM	
12:30 PM	70%
12:40 PM	
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1:00 PM	60%
1:10 PM	
1:20 PM	
1:30 PM	60%
1:40 PM	
1:50 PM	
2:00 PM	40%
2:10 PM	
2:20 PM	
2:30 PM	60%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	70%
9:40 AM	
9:50 AM	
10:00 AM	50%
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10:30 AM	30%
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11:00 AM	10%
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2:40 PM	
2:50 PM	
3:00 PM	10%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	90%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	80%
10:10 AM	
10:20 AM	
10:30 AM	30%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	20%
11:40 AM	
11:50 AM	
12:00 PM	10%
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4:10 PM	
4:20 PM	
4:30 PM	0%
4:40 PM	
4:50 PM	
5:00 PM	0%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	90%
10:10 AM	
10:20 AM	
10:30 AM	80%
10:40 AM	
10:50 AM	
11:00 AM	30%
11:10 AM	
11:20 AM	
11:30 AM	10%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
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1:00 PM	0%
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4:50 PM	
5:00 PM	0%
5:10 PM	
5:20 PM	
5:30 PM	0%
5:40 PM	
5:50 PM	
6:00 PM	0%

# BLEECKER SEATING AREA (SOUTH BLOCK)

December 21st Analysis Day  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	90%
12:10 PM	
12:20 PM	
12:30 PM	70%
12:40 PM	
12:50 PM	
1:00 PM	70%
1:10 PM	
1:20 PM	
1:30 PM	70%
1:40 PM	
1:50 PM	
2:00 PM	80%
2:10 PM	
2:20 PM	
2:30 PM	80%
2:40 PM	
2:50 PM	

March 21st Analysis Day  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	10%
8:10 AM	
8:20 AM	
8:30 AM	0%
8:40 AM	
8:50 AM	
9:00 AM	0%
9:10 AM	
9:20 AM	
9:30 AM	60%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	80%
10:40 AM	
10:50 AM	
11:00 AM	70%
11:10 AM	
11:20 AM	
11:30 AM	70%
11:40 AM	
11:50 AM	
12:00 PM	70%
12:10 PM	
12:20 PM	
12:30 PM	60%
12:40 PM	
12:50 PM	
1:00 PM	40%
1:10 PM	
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2:00 PM	60%
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2:30 PM	60%
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2:50 PM	
3:00 PM	60%
3:10 PM	
3:20 PM	
3:30 PM	60%
3:40 PM	
3:50 PM	
4:00 PM	60%
4:10 PM	
4:20 PM	
4:30 PM	80%

May 6th Analysis Day  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	0%
8:40 AM	
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9:00 AM	0%
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9:30 AM	0%
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1:30 PM	30%
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2:00 PM	20%
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2:30 PM	10%
2:40 PM	
2:50 PM	
3:00 PM	50%
3:10 PM	
3:20 PM	
3:30 PM	80%
3:40 PM	
3:50 PM	
4:00 PM	90%
4:10 PM	
4:20 PM	
4:30 PM	90%
4:40 PM	
4:50 PM	
5:00 PM	90%
5:10 PM	
5:20 PM	

June 21st Analysis Day  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
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3:00 PM	10%
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3:30 PM	30%
3:40 PM	
3:50 PM	
4:00 PM	40%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	
5:30 PM	100%
5:40 PM	
5:50 PM	
6:00 PM	100%

# MERCER ENTRY PLAZA (NORTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	90%
10:40 AM	
10:50 AM	
11:00 AM	80%
11:10 AM	
11:20 AM	
11:30 AM	80%
11:40 AM	
11:50 AM	
12:00 PM	70%
12:10 PM	
12:20 PM	
12:30 PM	60%
12:40 PM	
12:50 PM	
1:00 PM	60%
1:10 PM	
1:20 PM	
1:30 PM	40%
1:40 PM	
1:50 PM	
2:00 PM	80%
2:10 PM	
2:20 PM	
2:30 PM	100%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	80%
9:40 AM	
9:50 AM	
10:00 AM	80%
10:10 AM	
10:20 AM	
10:30 AM	70%
10:40 AM	
10:50 AM	
11:00 AM	60%
11:10 AM	
11:20 AM	
11:30 AM	50%
11:40 AM	
11:50 AM	
12:00 PM	40%
12:10 PM	
12:20 PM	
12:30 PM	30%
12:40 PM	
12:50 PM	
1:00 PM	40%
1:10 PM	
1:20 PM	
1:30 PM	60%
1:40 PM	
1:50 PM	
2:00 PM	80%
2:10 PM	
2:20 PM	
2:30 PM	90%
2:40 PM	
2:50 PM	
3:00 PM	100%
3:10 PM	
3:20 PM	
3:30 PM	100%
3:40 PM	
3:50 PM	
4:00 PM	100%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	80%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	60%
9:10 AM	
9:20 AM	
9:30 AM	60%
9:40 AM	
9:50 AM	
10:00 AM	50%
10:10 AM	
10:20 AM	
10:30 AM	40%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	10%
11:40 AM	
11:50 AM	
12:00 PM	10%
12:10 PM	
12:20 PM	
12:30 PM	20%
12:40 PM	
12:50 PM	
1:00 PM	30%
1:10 PM	
1:20 PM	
1:30 PM	50%
1:40 PM	
1:50 PM	
2:00 PM	70%
2:10 PM	
2:20 PM	
2:30 PM	80%
2:40 PM	
2:50 PM	
3:00 PM	90%
3:10 PM	
3:20 PM	
3:30 PM	100%
3:40 PM	
3:50 PM	
4:00 PM	100%
4:10 PM	
4:20 PM	
4:30 PM	90%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	80%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	70%
9:10 AM	
9:20 AM	
9:30 AM	50%
9:40 AM	
9:50 AM	
10:00 AM	40%
10:10 AM	
10:20 AM	
10:30 AM	30%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	10%
11:40 AM	
11:50 AM	
12:00 PM	20%
12:10 PM	
12:20 PM	
12:30 PM	20%
12:40 PM	
12:50 PM	
1:00 PM	30%
1:10 PM	
1:20 PM	
1:30 PM	50%
1:40 PM	
1:50 PM	
2:00 PM	60%
2:10 PM	
2:20 PM	
2:30 PM	80%
2:40 PM	
2:50 PM	
3:00 PM	80%
3:10 PM	
3:20 PM	
3:30 PM	90%
3:40 PM	
3:50 PM	
4:00 PM	90%
4:10 PM	
4:20 PM	
4:30 PM	90%
4:40 PM	
4:50 PM	
5:00 PM	90%
5:10 PM	
5:20 PM	
5:30 PM	90%
5:40 PM	
5:50 PM	
6:00 PM	100%

# TRICYCLE GARDEN (NORTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	90%
12:10 PM	
12:20 PM	
12:30 PM	70%
12:40 PM	
12:50 PM	
1:00 PM	50%
1:10 PM	
1:20 PM	
1:30 PM	50%
1:40 PM	
1:50 PM	
2:00 PM	100%
2:10 PM	
2:20 PM	
2:30 PM	100%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	70%
9:40 AM	
9:50 AM	
10:00 AM	90%
10:10 AM	
10:20 AM	
10:30 AM	70%
10:40 AM	
10:50 AM	
11:00 AM	70%
11:10 AM	
11:20 AM	
11:30 AM	70%
11:40 AM	
11:50 AM	
12:00 PM	60%
12:10 PM	
12:20 PM	
12:30 PM	50%
12:40 PM	
12:50 PM	
1:00 PM	60%
1:10 PM	
1:20 PM	
1:30 PM	60%
1:40 PM	
1:50 PM	
2:00 PM	80%
2:10 PM	
2:20 PM	
2:30 PM	90%
2:40 PM	
2:50 PM	
3:00 PM	100%
3:10 PM	
3:20 PM	
3:30 PM	100%
3:40 PM	
3:50 PM	
4:00 PM	100%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	80%
7:40 AM	
7:50 AM	
8:00 AM	80%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	40%
9:10 AM	
9:20 AM	
9:30 AM	40%
9:40 AM	
9:50 AM	
10:00 AM	30%
10:10 AM	
10:20 AM	
10:30 AM	20%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	20%
11:40 AM	
11:50 AM	
12:00 PM	30%
12:10 PM	
12:20 PM	
12:30 PM	40%
12:40 PM	
12:50 PM	
1:00 PM	50%
1:10 PM	
1:20 PM	
1:30 PM	80%
1:40 PM	
1:50 PM	
2:00 PM	80%
2:10 PM	
2:20 PM	
2:30 PM	90%
2:40 PM	
2:50 PM	
3:00 PM	90%
3:10 PM	
3:20 PM	
3:30 PM	80%
3:40 PM	
3:50 PM	
4:00 PM	80%
4:10 PM	
4:20 PM	
4:30 PM	80%
4:40 PM	
4:50 PM	
5:00 PM	80%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	90%
7:10 AM	
7:20 AM	
7:30 AM	90%
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	80%
8:40 AM	
8:50 AM	
9:00 AM	50%
9:10 AM	
9:20 AM	
9:30 AM	40%
9:40 AM	
9:50 AM	
10:00 AM	30%
10:10 AM	
10:20 AM	
10:30 AM	20%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	10%
11:40 AM	
11:50 AM	
12:00 PM	20%
12:10 PM	
12:20 PM	
12:30 PM	20%
12:40 PM	
12:50 PM	
1:00 PM	30%
1:10 PM	
1:20 PM	
1:30 PM	40%
1:40 PM	
1:50 PM	
2:00 PM	60%
2:10 PM	
2:20 PM	
2:30 PM	80%
2:40 PM	
2:50 PM	
3:00 PM	90%
3:10 PM	
3:20 PM	
3:30 PM	90%
3:40 PM	
3:50 PM	
4:00 PM	90%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	80%
5:10 PM	
5:20 PM	
5:30 PM	90%
5:40 PM	
5:50 PM	
6:00 PM	100%



# PUBLIC LAWN AND PHILOSOPHY GARDEN (NORTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	80%
9:10 AM	
9:20 AM	
9:30 AM	70%
9:40 AM	
9:50 AM	
10:00 AM	70%
10:10 AM	
10:20 AM	
10:30 AM	80%
10:40 AM	
10:50 AM	
11:00 AM	80%
11:10 AM	
11:20 AM	
11:30 AM	80%
11:40 AM	
11:50 AM	
12:00 PM	100%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	100%
1:10 PM	
1:20 PM	
1:30 PM	100%
1:40 PM	
1:50 PM	
2:00 PM	100%
2:10 PM	
2:20 PM	
2:30 PM	100%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	70%
8:10 AM	
8:20 AM	
8:30 AM	60%
8:40 AM	
8:50 AM	
9:00 AM	50%
9:10 AM	
9:20 AM	
9:30 AM	40%
9:40 AM	
9:50 AM	
10:00 AM	40%
10:10 AM	
10:20 AM	
10:30 AM	30%
10:40 AM	
10:50 AM	
11:00 AM	30%
11:10 AM	
11:20 AM	
11:30 AM	30%
11:40 AM	
11:50 AM	
12:00 PM	30%
12:10 PM	
12:20 PM	
12:30 PM	40%
12:40 PM	
12:50 PM	
1:00 PM	40%
1:10 PM	
1:20 PM	
1:30 PM	40%
1:40 PM	
1:50 PM	
2:00 PM	50%
2:10 PM	
2:20 PM	
2:30 PM	60%
2:40 PM	
2:50 PM	
3:00 PM	80%
3:10 PM	
3:20 PM	
3:30 PM	90%
3:40 PM	
3:50 PM	
4:00 PM	100%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	90%
7:10 AM	
7:20 AM	
7:30 AM	70%
7:40 AM	
7:50 AM	
8:00 AM	70%
8:10 AM	
8:20 AM	
8:30 AM	50%
8:40 AM	
8:50 AM	
9:00 AM	30%
9:10 AM	
9:20 AM	
9:30 AM	30%
9:40 AM	
9:50 AM	
10:00 AM	20%
10:10 AM	
10:20 AM	
10:30 AM	10%
10:40 AM	
10:50 AM	
11:00 AM	10%
11:10 AM	
11:20 AM	
11:30 AM	0%
11:40 AM	
11:50 AM	
12:00 PM	10%
12:10 PM	
12:20 PM	
12:30 PM	10%
12:40 PM	
12:50 PM	
1:00 PM	10%
1:10 PM	
1:20 PM	
1:30 PM	20%
1:40 PM	
1:50 PM	
2:00 PM	30%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	50%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	90%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	90%
7:10 AM	
7:20 AM	
7:30 AM	80%
7:40 AM	
7:50 AM	
8:00 AM	60%
8:10 AM	
8:20 AM	
8:30 AM	50%
8:40 AM	
8:50 AM	
9:00 AM	30%
9:10 AM	
9:20 AM	
9:30 AM	20%
9:40 AM	
9:50 AM	
10:00 AM	10%
10:10 AM	
10:20 AM	
10:30 AM	10%
10:40 AM	
10:50 AM	
11:00 AM	0%
11:10 AM	
11:20 AM	
11:30 AM	0%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	10%
1:10 PM	
1:20 PM	
1:30 PM	10%
1:40 PM	
1:50 PM	
2:00 PM	10%
2:10 PM	
2:20 PM	
2:30 PM	20%
2:40 PM	
2:50 PM	
3:00 PM	20%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	40%
4:10 PM	
4:20 PM	
4:30 PM	60%
4:40 PM	
4:50 PM	
5:00 PM	80%
5:10 PM	
5:20 PM	
5:30 PM	90%
5:40 PM	
5:50 PM	
6:00 PM	90%

# WASHINGTON SQUARE VILLAGE PLAY GARDEN (NORTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	100%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	100%
1:10 PM	
1:20 PM	
1:30 PM	100%
1:40 PM	
1:50 PM	
2:00 PM	100%
2:10 PM	
2:20 PM	
2:30 PM	100%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	70%
8:10 AM	
8:20 AM	
8:30 AM	10%
8:40 AM	
8:50 AM	
9:00 AM	0%
9:10 AM	
9:20 AM	
9:30 AM	60%
9:40 AM	
9:50 AM	
10:00 AM	80%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	100%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	100%
1:10 PM	
1:20 PM	
1:30 PM	100%
1:40 PM	
1:50 PM	
2:00 PM	100%
2:10 PM	
2:20 PM	
2:30 PM	100%
2:40 PM	
2:50 PM	
3:00 PM	100%
3:10 PM	
3:20 PM	
3:30 PM	100%
3:40 PM	
3:50 PM	
4:00 PM	100%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	30%
8:40 AM	
8:50 AM	
9:00 AM	10%
9:10 AM	
9:20 AM	
9:30 AM	0%
9:40 AM	
9:50 AM	
10:00 AM	0%
10:10 AM	
10:20 AM	
10:30 AM	20%
10:40 AM	
10:50 AM	
11:00 AM	50%
11:10 AM	
11:20 AM	
11:30 AM	70%
11:40 AM	
11:50 AM	
12:00 PM	80%
12:10 PM	
12:20 PM	
12:30 PM	90%
12:40 PM	
12:50 PM	
1:00 PM	90%
1:10 PM	
1:20 PM	
1:30 PM	100%
1:40 PM	
1:50 PM	
2:00 PM	100%
2:10 PM	
2:20 PM	
2:30 PM	100%
2:40 PM	
2:50 PM	
3:00 PM	100%
3:10 PM	
3:20 PM	
3:30 PM	100%
3:40 PM	
3:50 PM	
4:00 PM	100%
4:10 PM	
4:20 PM	
4:30 PM	100%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	70%
7:10 AM	
7:20 AM	
7:30 AM	70%
7:40 AM	
7:50 AM	
8:00 AM	80%
8:10 AM	
8:20 AM	
8:30 AM	80%
8:40 AM	
8:50 AM	
9:00 AM	10%
9:10 AM	
9:20 AM	
9:30 AM	0%
9:40 AM	
9:50 AM	
10:00 AM	0%
10:10 AM	
10:20 AM	
10:30 AM	0%
10:40 AM	
10:50 AM	
11:00 AM	10%
11:10 AM	
11:20 AM	
11:30 AM	20%
11:40 AM	
11:50 AM	
12:00 PM	60%
12:10 PM	
12:20 PM	
12:30 PM	70%
12:40 PM	
12:50 PM	
1:00 PM	80%
1:10 PM	
1:20 PM	
1:30 PM	90%
1:40 PM	
1:50 PM	
2:00 PM	90%
2:10 PM	
2:20 PM	
2:30 PM	90%
2:40 PM	
2:50 PM	
3:00 PM	100%
3:10 PM	
3:20 PM	
3:30 PM	100%
3:40 PM	
3:50 PM	
4:00 PM	100%
4:10 PM	
4:20 PM	
4:30 PM	100%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	
5:30 PM	100%
5:40 PM	
5:50 PM	
6:00 PM	80%

# LAGUARDIA PLAY GARDEN (NORTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	100%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	100%
1:10 PM	
1:20 PM	
1:30 PM	80%
1:40 PM	
1:50 PM	
2:00 PM	60%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	50%
8:40 AM	
8:50 AM	
9:00 AM	40%
9:10 AM	
9:20 AM	
9:30 AM	40%
9:40 AM	
9:50 AM	
10:00 AM	70%
10:10 AM	
10:20 AM	
10:30 AM	80%
10:40 AM	
10:50 AM	
11:00 AM	80%
11:10 AM	
11:20 AM	
11:30 AM	80%
11:40 AM	
11:50 AM	
12:00 PM	90%
12:10 PM	
12:20 PM	
12:30 PM	90%
12:40 PM	
12:50 PM	
1:00 PM	80%
1:10 PM	
1:20 PM	
1:30 PM	50%
1:40 PM	
1:50 PM	
2:00 PM	50%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	40%
4:10 PM	
4:20 PM	
4:30 PM	70%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	90%
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	70%
9:10 AM	
9:20 AM	
9:30 AM	60%
9:40 AM	
9:50 AM	
10:00 AM	70%
10:10 AM	
10:20 AM	
10:30 AM	60%
10:40 AM	
10:50 AM	
11:00 AM	40%
11:10 AM	
11:20 AM	
11:30 AM	60%
11:40 AM	
11:50 AM	
12:00 PM	70%
12:10 PM	
12:20 PM	
12:30 PM	50%
12:40 PM	
12:50 PM	
1:00 PM	60%
1:10 PM	
1:20 PM	
1:30 PM	50%
1:40 PM	
1:50 PM	
2:00 PM	50%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	30%
3:40 PM	
3:50 PM	
4:00 PM	50%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	80%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	80%
7:10 AM	
7:20 AM	
7:30 AM	80%
7:40 AM	
7:50 AM	
8:00 AM	70%
8:10 AM	
8:20 AM	
8:30 AM	60%
8:40 AM	
8:50 AM	
9:00 AM	50%
9:10 AM	
9:20 AM	
9:30 AM	50%
9:40 AM	
9:50 AM	
10:00 AM	40%
10:10 AM	
10:20 AM	
10:30 AM	30%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	20%
11:40 AM	
11:50 AM	
12:00 PM	30%
12:10 PM	
12:20 PM	
12:30 PM	30%
12:40 PM	
12:50 PM	
1:00 PM	40%
1:10 PM	
1:20 PM	
1:30 PM	50%
1:40 PM	
1:50 PM	
2:00 PM	50%
2:10 PM	
2:20 PM	
2:30 PM	50%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	60%
4:10 PM	
4:20 PM	
4:30 PM	70%
4:40 PM	
4:50 PM	
5:00 PM	80%
5:10 PM	
5:20 PM	
5:30 PM	90%
5:40 PM	
5:50 PM	
6:00 PM	100%

# LAGUARDIA ENTRY PLAZA (NORTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	90%
9:10 AM	
9:20 AM	
9:30 AM	70%
9:40 AM	
9:50 AM	
10:00 AM	60%
10:10 AM	
10:20 AM	
10:30 AM	70%
10:40 AM	
10:50 AM	
11:00 AM	70%
11:10 AM	
11:20 AM	
11:30 AM	80%
11:40 AM	
11:50 AM	
12:00 PM	90%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	100%
1:10 PM	
1:20 PM	
1:30 PM	90%
1:40 PM	
1:50 PM	
2:00 PM	40%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	40%
8:40 AM	
8:50 AM	
9:00 AM	50%
9:10 AM	
9:20 AM	
9:30 AM	50%
9:40 AM	
9:50 AM	
10:00 AM	50%
10:10 AM	
10:20 AM	
10:30 AM	50%
10:40 AM	
10:50 AM	
11:00 AM	50%
11:10 AM	
11:20 AM	
11:30 AM	50%
11:40 AM	
11:50 AM	
12:00 PM	50%
12:10 PM	
12:20 PM	
12:30 PM	30%
12:40 PM	
12:50 PM	
1:00 PM	30%
1:10 PM	
1:20 PM	
1:30 PM	30%
1:40 PM	
1:50 PM	
2:00 PM	30%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	
3:00 PM	60%
3:10 PM	
3:20 PM	
3:30 PM	60%
3:40 PM	
3:50 PM	
4:00 PM	80%
4:10 PM	
4:20 PM	
4:30 PM	90%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	80%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	40%
9:10 AM	
9:20 AM	
9:30 AM	40%
9:40 AM	
9:50 AM	
10:00 AM	40%
10:10 AM	
10:20 AM	
10:30 AM	30%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	20%
11:40 AM	
11:50 AM	
12:00 PM	20%
12:10 PM	
12:20 PM	
12:30 PM	10%
12:40 PM	
12:50 PM	
1:00 PM	10%
1:10 PM	
1:20 PM	
1:30 PM	20%
1:40 PM	
1:50 PM	
2:00 PM	30%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	60%
4:10 PM	
4:20 PM	
4:30 PM	80%
4:40 PM	
4:50 PM	
5:00 PM	90%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	90%
7:40 AM	
7:50 AM	
8:00 AM	80%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	60%
9:10 AM	
9:20 AM	
9:30 AM	40%
9:40 AM	
9:50 AM	
10:00 AM	30%
10:10 AM	
10:20 AM	
10:30 AM	20%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	20%
11:40 AM	
11:50 AM	
12:00 PM	10%
12:10 PM	
12:20 PM	
12:30 PM	10%
12:40 PM	
12:50 PM	
1:00 PM	10%
1:10 PM	
1:20 PM	
1:30 PM	10%
1:40 PM	
1:50 PM	
2:00 PM	20%
2:10 PM	
2:20 PM	
2:30 PM	20%
2:40 PM	
2:50 PM	
3:00 PM	30%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	50%
4:10 PM	
4:20 PM	
4:30 PM	60%
4:40 PM	
4:50 PM	
5:00 PM	70%
5:10 PM	
5:20 PM	
5:30 PM	80%
5:40 PM	
5:50 PM	
6:00 PM	90%

# EXISTING COLES PLAYGROUND (SOUTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	100%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	90%
1:10 PM	
1:20 PM	
1:30 PM	50%
1:40 PM	
1:50 PM	
2:00 PM	20%
2:10 PM	
2:20 PM	
2:30 PM	100%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	90%
11:40 AM	
11:50 AM	
12:00 PM	80%
12:10 PM	
12:20 PM	
12:30 PM	10%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	0%
2:40 PM	
2:50 PM	
3:00 PM	20%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	80%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	90%
7:40 AM	
7:50 AM	
8:00 AM	80%
8:10 AM	
8:20 AM	
8:30 AM	80%
8:40 AM	
8:50 AM	
9:00 AM	70%
9:10 AM	
9:20 AM	
9:30 AM	80%
9:40 AM	
9:50 AM	
10:00 AM	80%
10:10 AM	
10:20 AM	
10:30 AM	80%
10:40 AM	
10:50 AM	
11:00 AM	50%
11:10 AM	
11:20 AM	
11:30 AM	20%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	10%
2:10 PM	
2:20 PM	
2:30 PM	30%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	70%
4:10 PM	
4:20 PM	
4:30 PM	100%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	90%
7:10 AM	
7:20 AM	
7:30 AM	80%
7:40 AM	
7:50 AM	
8:00 AM	70%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	60%
9:10 AM	
9:20 AM	
9:30 AM	50%
9:40 AM	
9:50 AM	
10:00 AM	50%
10:10 AM	
10:20 AM	
10:30 AM	40%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	0%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	10%
2:40 PM	
2:50 PM	
3:00 PM	30%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	70%
4:10 PM	
4:20 PM	
4:30 PM	90%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	
5:30 PM	100%
5:40 PM	
5:50 PM	
6:00 PM	100%

# EXISTING COLES PLAZA (SOUTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	100%
11:40 AM	
11:50 AM	
12:00 PM	100%
12:10 PM	
12:20 PM	
12:30 PM	100%
12:40 PM	
12:50 PM	
1:00 PM	90%
1:10 PM	
1:20 PM	
1:30 PM	30%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	10%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	70%
9:10 AM	
9:20 AM	
9:30 AM	80%
9:40 AM	
9:50 AM	
10:00 AM	50%
10:10 AM	
10:20 AM	
10:30 AM	30%
10:40 AM	
10:50 AM	
11:00 AM	30%
11:10 AM	
11:20 AM	
11:30 AM	50%
11:40 AM	
11:50 AM	
12:00 PM	60%
12:10 PM	
12:20 PM	
12:30 PM	20%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	10%
2:40 PM	
2:50 PM	
3:00 PM	30%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	80%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	80%
7:10 AM	
7:20 AM	
7:30 AM	70%
7:40 AM	
7:50 AM	
8:00 AM	60%
8:10 AM	
8:20 AM	
8:30 AM	40%
8:40 AM	
8:50 AM	
9:00 AM	30%
9:10 AM	
9:20 AM	
9:30 AM	20%
9:40 AM	
9:50 AM	
10:00 AM	0%
10:10 AM	
10:20 AM	
10:30 AM	0%
10:40 AM	
10:50 AM	
11:00 AM	0%
11:10 AM	
11:20 AM	
11:30 AM	0%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	10%
2:10 PM	
2:20 PM	
2:30 PM	10%
2:40 PM	
2:50 PM	
3:00 PM	30%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	80%
4:10 PM	
4:20 PM	
4:30 PM	100%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	90%
7:10 AM	
7:20 AM	
7:30 AM	70%
7:40 AM	
7:50 AM	
8:00 AM	50%
8:10 AM	
8:20 AM	
8:30 AM	20%
8:40 AM	
8:50 AM	
9:00 AM	10%
9:10 AM	
9:20 AM	
9:30 AM	0%
9:40 AM	
9:50 AM	
10:00 AM	0%
10:10 AM	
10:20 AM	
10:30 AM	0%
10:40 AM	
10:50 AM	
11:00 AM	0%
11:10 AM	
11:20 AM	
11:30 AM	0%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	10%
2:40 PM	
2:50 PM	
3:00 PM	30%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	70%
4:10 PM	
4:20 PM	
4:30 PM	100%
4:40 PM	
4:50 PM	
5:00 PM	100%
5:10 PM	
5:20 PM	
5:30 PM	100%
5:40 PM	
5:50 PM	
6:00 PM	100%

# EXISTING MERCER PLAYGROUND (NORTH BLOCK)

**December 21st Analysis Day**  
6 hours

8:51 AM - 2:53 PM	Approximate % Shadow Coverage
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	100%
10:10 AM	
10:20 AM	
10:30 AM	100%
10:40 AM	
10:50 AM	
11:00 AM	100%
11:10 AM	
11:20 AM	
11:30 AM	90%
11:40 AM	
11:50 AM	
12:00 PM	80%
12:10 PM	
12:20 PM	
12:30 PM	50%
12:40 PM	
12:50 PM	
1:00 PM	10%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	0%
2:10 PM	
2:20 PM	
2:30 PM	20%
2:40 PM	
2:50 PM	

**March 21st Analysis Day**  
8 hours 50 mins

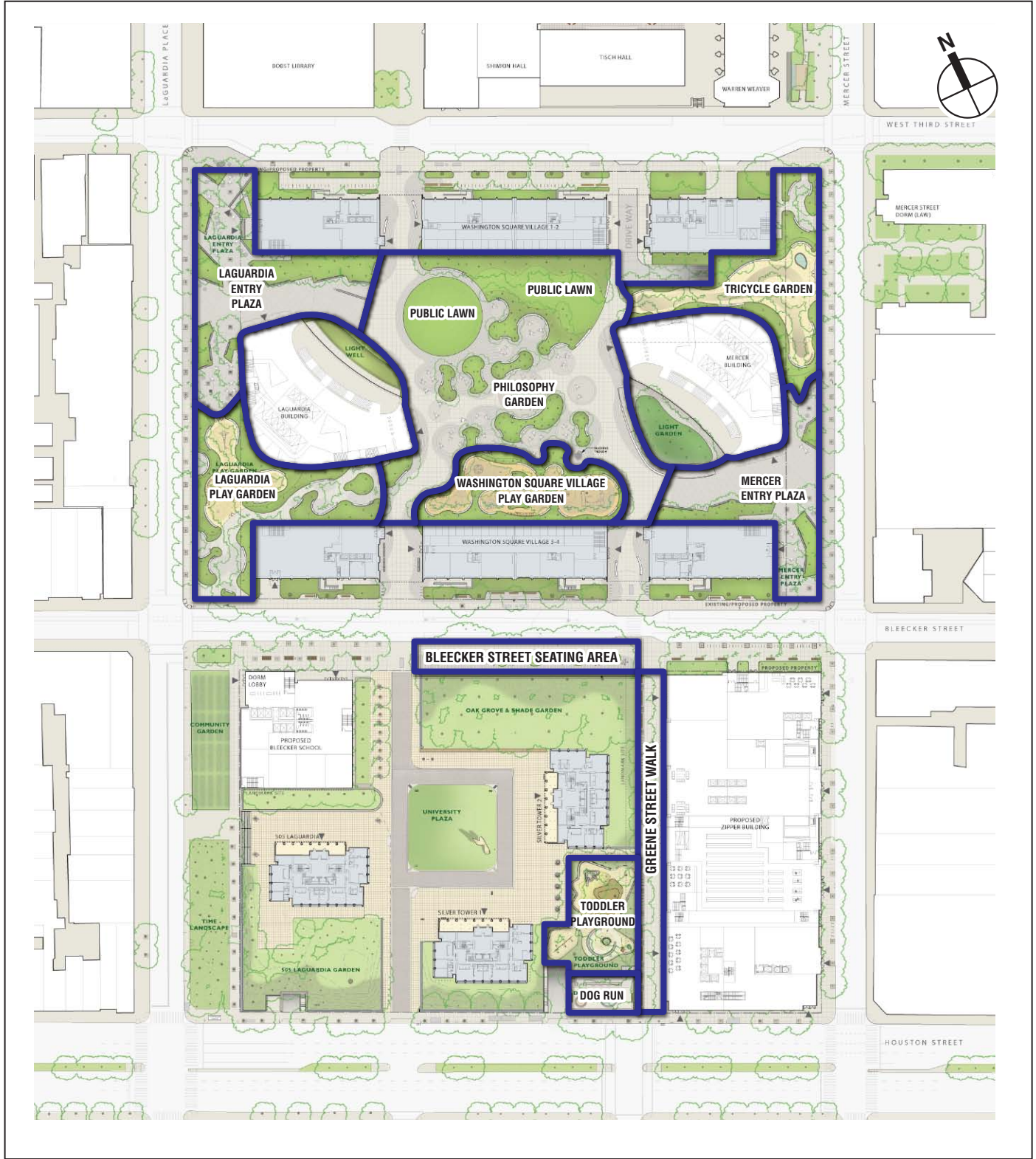
7:36 AM - 4:29 PM	Approximate % Shadow Coverage
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	100%
8:40 AM	
8:50 AM	
9:00 AM	100%
9:10 AM	
9:20 AM	
9:30 AM	100%
9:40 AM	
9:50 AM	
10:00 AM	90%
10:10 AM	
10:20 AM	
10:30 AM	80%
10:40 AM	
10:50 AM	
11:00 AM	60%
11:10 AM	
11:20 AM	
11:30 AM	40%
11:40 AM	
11:50 AM	
12:00 PM	10%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	0%
1:40 PM	
1:50 PM	
2:00 PM	10%
2:10 PM	
2:20 PM	
2:30 PM	40%
2:40 PM	
2:50 PM	
3:00 PM	60%
3:10 PM	
3:20 PM	
3:30 PM	80%
3:40 PM	
3:50 PM	
4:00 PM	90%
4:10 PM	
4:20 PM	
4:30 PM	100%

**May 6th Analysis Day**  
10 hours 50 mins

6:27 AM - 5:18 PM	Approximate % Shadow Coverage
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	100%
7:10 AM	
7:20 AM	
7:30 AM	100%
7:40 AM	
7:50 AM	
8:00 AM	100%
8:10 AM	
8:20 AM	
8:30 AM	90%
8:40 AM	
8:50 AM	
9:00 AM	70%
9:10 AM	
9:20 AM	
9:30 AM	50%
9:40 AM	
9:50 AM	
10:00 AM	40%
10:10 AM	
10:20 AM	
10:30 AM	30%
10:40 AM	
10:50 AM	
11:00 AM	20%
11:10 AM	
11:20 AM	
11:30 AM	0%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	10%
1:40 PM	
1:50 PM	
2:00 PM	20%
2:10 PM	
2:20 PM	
2:30 PM	30%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	50%
3:40 PM	
3:50 PM	
4:00 PM	60%
4:10 PM	
4:20 PM	
4:30 PM	60%
4:40 PM	
4:50 PM	
5:00 PM	70%
5:10 PM	
5:20 PM	

**June 21st Analysis Day**  
12 hours

5:57 AM - 6:01 PM	Approximate % Shadow Coverage
6:00 AM	100%
6:10 AM	
6:20 AM	
6:30 AM	100%
6:40 AM	
6:50 AM	
7:00 AM	90%
7:10 AM	
7:20 AM	
7:30 AM	90%
7:40 AM	
7:50 AM	
8:00 AM	90%
8:10 AM	
8:20 AM	
8:30 AM	70%
8:40 AM	
8:50 AM	
9:00 AM	60%
9:10 AM	
9:20 AM	
9:30 AM	40%
9:40 AM	
9:50 AM	
10:00 AM	20%
10:10 AM	
10:20 AM	
10:30 AM	10%
10:40 AM	
10:50 AM	
11:00 AM	0%
11:10 AM	
11:20 AM	
11:30 AM	0%
11:40 AM	
11:50 AM	
12:00 PM	0%
12:10 PM	
12:20 PM	
12:30 PM	0%
12:40 PM	
12:50 PM	
1:00 PM	0%
1:10 PM	
1:20 PM	
1:30 PM	10%
1:40 PM	
1:50 PM	
2:00 PM	20%
2:10 PM	
2:20 PM	
2:30 PM	30%
2:40 PM	
2:50 PM	
3:00 PM	40%
3:10 PM	
3:20 PM	
3:30 PM	40%
3:40 PM	
3:50 PM	
4:00 PM	50%
4:10 PM	
4:20 PM	
4:30 PM	50%
4:40 PM	
4:50 PM	
5:00 PM	50%
5:10 PM	
5:20 PM	
5:30 PM	50%
5:40 PM	
5:50 PM	
6:00 PM	60%



0 64 128 FEET  
 SCALE