



# High Bay Spacing Tables

## H17™ Family

Spacing Tables are to be used for quick reference ONLY. The tables provide average footcandle levels and max:min uniformity ratios for the designated fixture spacing at a given height.

**RAB does not recommend all of these configurations.** Refer to IES recommended practice for specific Space Applications. For questions contact Lighting Design.

FIXTURE: H17S @ 60W

9,710 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |        |        |
|-------------|--------------|---------|---------|---------|---------|---------|---------|--------|--------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45  | 50x50  |
| 50          | 60.4 FC      | 27.3 FC | 18.2 FC | 11.7 FC | 10.4 FC | 6.5 FC  | 6 FC    | 5.4 FC | 3.1 FC |
|             | 3:1          | 3:1     | 2.4:1   | 2.4:1   | 1.7:1   | 2.3:1   | 1.7:1   | 1.5:1  | 2.6:1  |
| 45          | 63.4 FC      | 28.7 FC | 19.1 FC | 12.5 FC | 10.9 FC | 6.8 FC  | 6.3 FC  | 5.7 FC | 3.3 FC |
|             | 3.1:1        | 3.2:1   | 2.4:1   | 2.3:1   | 1.7:1   | 2.2:1   | 1.6:1   | 1.3:1  | 2.6:1  |
| 40          | 66.4 FC      | 30.1 FC | 20 FC   | 12.9 FC | 11.4 FC | 7.2 FC  | 6.6 FC  | 5.9 FC | 3.5 FC |
|             | 3.4:1        | 3.3:1   | 2.6:1   | 2.6:1   | 1.6:1   | 2.1:1   | 1.6:1   | 1.2:1  | 2.9:1  |
| 35          | 69.6 FC      | 31.6 FC | 21 FC   | 13.5 FC | 12 FC   | 7.6 FC  | 7 FC    | 6.1 FC | 3.6 FC |
|             | 3.4:1        | 3.4:1   | 2.4:1   | 2.5:1   | 1.4:1   | 1.9:1   | 1.3:1   | 1.5:1  | 5:1    |
| 30          | 72.8 FC      | 33.2 FC | 22 FC   | 14.4 FC | 12.5 FC | 8.1 FC  | 7.2 FC  | 6.4 FC | 3.9 FC |
|             | 3.8:1        | 3.6:1   | 2.5:1   | 2.4:1   | 1.2:1   | 1.8:1   | 1.8:1   | 2.3:1  | 7.2:1  |
| 25          | 76.3 FC      | 34.8 FC | 23.2 FC | 15 FC   | 13.1 FC | 8.4 FC  | 7.7 FC  | 6.7 FC | 4 FC   |
|             | 4:1          | 4.1:1   | 2.3:1   | 2.6:1   | 1.4:1   | 2.9:1   | 3.3:1   | 4.1:1  | 14.4:1 |
| 20          | 79.8 FC      | 36.5 FC | 24.5 FC | 16.5 FC | 13.8 FC | 9 FC    | 8.3 FC  | 7.2 FC | 4.2 FC |
|             | 4.7:1        | 4.7:1   | 2.1:1   | 2.2:1   | 2.6:1   | 5.5:1   | 7:1     | 8.7:1  | 33.6:1 |
| 15          | 83.3 FC      | 38.1 FC | 26.5 FC | 16.7 FC | 14.7 FC | 9.4 FC  | 9.1 FC  | 7.9 FC | 4.3 FC |
|             | 5.8:1        | 8:1     | 3.1:1   | 10.3:1  | 7.3:1   | 17.3:1  | 18.9:1  | 21.3:1 | 111:1  |
| 10          | 89.9 FC      | 39.3 FC | 27 FC   | 17.4 FC | 16.3 FC | 10.3 FC | 10.1 FC | 8.9 FC | 4.4 FC |
|             | 9.4:1        | 28.2:1  | 17.7:1  | 41.7:1  | 27.1:1  | 70.2:1  | 69.4:1  | 77.5:1 | 438:1  |

-Fixture Calculations in 100' x100' open room, 80/50/20 reflectances, readings taken at 2'-6" AFF, CCT 5000K

-Ratios show max:min uniformity

-This information is current as of 11/27/2024.

-The Lighting Analysis provided by RAB Lighting Inc. ("RAB") represents an anticipated prediction of lighting system performance. RAB neither warranties, either implied or stated with regard to actual measured light levels as compared to those illustrated by the Spacing Table. RAB neither warranties, either implied or stated, nor represents the appropriateness, completeness or suitability of the lighting design intent as compliant with any applicable regulatory code requirements. The Spacing Table is issued, in whole or in part, as advisory documents for informational purposes and is not intended for construction nor as being part of a project's construction documentation package.

## FIXTURE: H17S @ 60W + H17-RAL

9,831 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 66.8 FC      | 30.1 FC | 19.9 FC | 12.8 FC | 11.3 FC | 7.1 FC  | 6.5 FC  | 5.8 FC  | 3.4 FC  |
|             | 3.5:1        | 3.5:1   | 2.7:1   | 2.7:1   | 1.8:1   | 2.4:1   | 1.7:1   | 1.5:1   | 2.9:1   |
| 45          | 69.4 FC      | 31.3 FC | 20.8 FC | 13.6 FC | 11.7 FC | 7.4 FC  | 6.8 FC  | 6 FC    | 3.6 FC  |
|             | 3.6:1        | 3.8:1   | 2.7:1   | 2.5:1   | 1.7:1   | 2.3:1   | 1.6:1   | 1.3:1   | 3.1:1   |
| 40          | 72.1 FC      | 32.6 FC | 21.6 FC | 13.9 FC | 12.2 FC | 7.8 FC  | 7 FC    | 6.2 FC  | 3.9 FC  |
|             | 3.9:1        | 3.9:1   | 2.8:1   | 2.8:1   | 1.7:1   | 2.1:1   | 1.6:1   | 1.2:1   | 3.9:1   |
| 35          | 74.9 FC      | 33.9 FC | 22.5 FC | 14.5 FC | 12.7 FC | 8.1 FC  | 7.4 FC  | 6.4 FC  | 4 FC    |
|             | 4:1          | 4.1:1   | 2.5:1   | 2.7:1   | 1.4:1   | 1.9:1   | 1.3:1   | 1.8:1   | 7.9:1   |
| 30          | 77.6 FC      | 35.3 FC | 23.4 FC | 15.4 FC | 13.2 FC | 8.7 FC  | 7.7 FC  | 6.7 FC  | 4.3 FC  |
|             | 4.4:1        | 4.2:1   | 2.6:1   | 2.4:1   | 1.2:1   | 1.7:1   | 2.5:1   | 3.6:1   | 14.3:1  |
| 25          | 80.5 FC      | 36.7 FC | 24.5 FC | 15.9 FC | 13.6 FC | 9 FC    | 8.2 FC  | 7 FC    | 4.3 FC  |
|             | 4.6:1        | 4.9:1   | 2.3:1   | 2.8:1   | 1.8:1   | 3.6:1   | 6.1:1   | 8.3:1   | 42.3:1  |
| 20          | 83.3 FC      | 38.2 FC | 25.7 FC | 17.5 FC | 14.4 FC | 9.5 FC  | 8.9 FC  | 7.5 FC  | 4.3 FC  |
|             | 5.6:1        | 6:1     | 2:1     | 2.5:1   | 4.6:1   | 11.9:1  | 16.4:1  | 17.6:1  | 105:1   |
| 15          | 86.2 FC      | 39.4 FC | 27.7 FC | 17.4 FC | 15.5 FC | 9.9 FC  | 9.7 FC  | 8.3 FC  | 4.4 FC  |
|             | 7.9:1        | 13.1:1  | 4.7:1   | 26.3:1  | 16.6:1  | 45.9:1  | 38.4:1  | 41.5:1  | 207.5:1 |
| 10          | 92.5 FC      | 39.6 FC | 28 FC   | 17.7 FC | 17.3 FC | 10.3 FC | 10.5 FC | 9.5 FC  | 4.4 FC  |
|             | 16.2:1       | 52.6:1  | 46.5:1  | 88.7:1  | 51.4:1  | 145.3:1 | 136.8:1 | 135.4:1 | 1112:1  |

## FIXTURE: H17S @ 60W + H17-RPC

9,825 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |        |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|--------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45  | 50x50   |
| 50          | 63.5 FC      | 28.6 FC | 19 FC   | 12.2 FC | 10.8 FC | 6.7 FC  | 6.2 FC  | 5.6 FC | 3.2 FC  |
|             | 3.2:1        | 3.4:1   | 2.7:1   | 2.7:1   | 1.8:1   | 2.4:1   | 1.8:1   | 1.6:1  | 2.8:1   |
| 45          | 66.3 FC      | 29.9 FC | 19.8 FC | 12.9 FC | 11.3 FC | 7.1 FC  | 6.5 FC  | 5.8 FC | 3.4 FC  |
|             | 3.4:1        | 3.6:1   | 2.6:1   | 2.5:1   | 1.8:1   | 2.3:1   | 1.7:1   | 1.4:1  | 3.1:1   |
| 40          | 69.1 FC      | 31.3 FC | 20.7 FC | 13.3 FC | 11.7 FC | 7.4 FC  | 6.8 FC  | 6.1 FC | 3.7 FC  |
|             | 3.5:1        | 3.7:1   | 2.6:1   | 2.7:1   | 1.8:1   | 2.1:1   | 1.6:1   | 1.2:1  | 3.5:1   |
| 35          | 72.1 FC      | 32.6 FC | 21.7 FC | 13.9 FC | 12.3 FC | 7.8 FC  | 7.2 FC  | 6.3 FC | 3.8 FC  |
|             | 3.7:1        | 3.9:1   | 2.6:1   | 2.6:1   | 1.5:1   | 1.9:1   | 1.3:1   | 1.7:1  | 6.4:1   |
| 30          | 75 FC        | 34.1 FC | 22.6 FC | 14.8 FC | 12.7 FC | 8.3 FC  | 7.5 FC  | 6.5 FC | 4.1 FC  |
|             | 4.1:1        | 3.9:1   | 2.5:1   | 2.4:1   | 1.3:1   | 1.7:1   | 2.2:1   | 2.9:1  | 11.1:1  |
| 25          | 78.2 FC      | 35.6 FC | 23.7 FC | 15.4 FC | 13.3 FC | 8.7 FC  | 7.9 FC  | 6.9 FC | 4.1 FC  |
|             | 4.3:1        | 4.6:1   | 2.3:1   | 2.8:1   | 1.6:1   | 3.4:1   | 4.6:1   | 5.6:1  | 22.4:1  |
| 20          | 81.4 FC      | 37.2 FC | 25 FC   | 16.9 FC | 14 FC   | 9.2 FC  | 8.6 FC  | 7.4 FC | 4.2 FC  |
|             | 4.9:1        | 5.2:1   | 2:1     | 2.5:1   | 3.6:1   | 7.9:1   | 9.8:1   | 11.1:1 | 46.5:1  |
| 15          | 84.4 FC      | 38.6 FC | 27 FC   | 16.9 FC | 15.1 FC | 9.6 FC  | 9.3 FC  | 8.1 FC | 4.3 FC  |
|             | 7.1:1        | 10.5:1  | 3.8:1   | 15.5:1  | 10:1    | 26:1    | 23.4:1  | 25.3:1 | 122.7:1 |
| 10          | 90.2 FC      | 39 FC   | 27.3 FC | 17.6 FC | 17 FC   | 10.4 FC | 10.3 FC | 9.3 FC | 4.4 FC  |
|             | 11.9:1       | 34.6:1  | 25.9:1  | 52.2:1  | 32.6:1  | 84.9:1  | 78.9:1  | 95.8:1 | 977:1   |

## FIXTURE: H17S @ 60W + H17-RPC + H17-RDL

9,242 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |        |        |        |         |
|-------------|--------------|---------|---------|---------|---------|--------|--------|--------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35  | 40x40  | 45x45  | 50x50   |
| 50          | 55.3 FC      | 25 FC   | 16.6 FC | 10.7 FC | 9.6 FC  | 5.9 FC | 5.5 FC | 5 FC   | 2.8 FC  |
|             | 2.9:1        | 3.1:1   | 2.5:1   | 2.5:1   | 1.9:1   | 2.3:1  | 1.8:1  | 1.7:1  | 2.6:1   |
| 45          | 58.2 FC      | 26.3 FC | 17.5 FC | 11.4 FC | 10.1 FC | 6.3 FC | 5.8 FC | 5.2 FC | 3 FC    |
|             | 3.1:1        | 3.3:1   | 2.5:1   | 2.4:1   | 1.9:1   | 2.2:1  | 1.7:1  | 1.5:1  | 2.6:1   |
| 40          | 61.1 FC      | 27.7 FC | 18.4 FC | 11.8 FC | 10.5 FC | 6.6 FC | 6 FC   | 5.4 FC | 3.2 FC  |
|             | 3.3:1        | 3.4:1   | 2.4:1   | 2.7:1   | 1.9:1   | 2.1:1  | 1.7:1  | 1.3:1  | 3.1:1   |
| 35          | 64.1 FC      | 29.1 FC | 19.4 FC | 12.5 FC | 11.1 FC | 7 FC   | 6.4 FC | 5.7 FC | 3.4 FC  |
|             | 3.4:1        | 3.5:1   | 2.5:1   | 2.6:1   | 1.6:1   | 2:1    | 1.3:1  | 1.4:1  | 4.2:1   |
| 30          | 67.2 FC      | 30.6 FC | 20.4 FC | 13.3 FC | 11.6 FC | 7.5 FC | 6.7 FC | 5.9 FC | 3.6 FC  |
|             | 3.9:1        | 3.7:1   | 2.4:1   | 2.5:1   | 1.4:1   | 1.8:1  | 1.7:1  | 2.1:1  | 6:1     |
| 25          | 70.7 FC      | 32.2 FC | 21.5 FC | 13.9 FC | 12.1 FC | 7.8 FC | 7.1 FC | 6.2 FC | 3.7 FC  |
|             | 4.1:1        | 4.3:1   | 2.2:1   | 2.9:1   | 1.4:1   | 3.1:1  | 2.8:1  | 3.5:1  | 10.5:1  |
| 20          | 74.1 FC      | 33.9 FC | 22.7 FC | 15.3 FC | 12.8 FC | 8.3 FC | 7.7 FC | 6.7 FC | 3.9 FC  |
|             | 4.5:1        | 4.9:1   | 2.2:1   | 2.2:1   | 2.4:1   | 5.4:1  | 5.4:1  | 7:1    | 27:1    |
| 15          | 77.6 FC      | 35.4 FC | 24.6 FC | 15.5 FC | 13.7 FC | 8.7 FC | 8.4 FC | 7.3 FC | 4 FC    |
|             | 6.3:1        | 8:1     | 2.7:1   | 9.5:1   | 5.9:1   | 14.8:1 | 14.1:1 | 17.5:1 | 87.7:1  |
| 10          | 83.8 FC      | 36.4 FC | 25.3 FC | 16.2 FC | 15.5 FC | 9.5 FC | 9.4 FC | 8.4 FC | 4.1 FC  |
|             | 8.7:1        | 22.8:1  | 14.7:1  | 31.4:1  | 22.2:1  | 52.7:1 | 56.2:1 | 62.8:1 | 363.5:1 |

## FIXTURE: H17S @ 80W

12,248 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 76.2 FC      | 34.4 FC | 22.9 FC | 14.7 FC | 13.2 FC | 8.2 FC  | 7.6 FC  | 6.8 FC  | 3.9 FC  |
|             | 3:1          | 2.9:1   | 2.4:1   | 2.5:1   | 1.7:1   | 2.3:1   | 1.7:1   | 1.5:1   | 2.6:1   |
| 45          | 80 FC        | 36.2 FC | 24.1 FC | 15.7 FC | 13.8 FC | 8.6 FC  | 8 FC    | 7.2 FC  | 4.1 FC  |
|             | 3.1:1        | 3.2:1   | 2.4:1   | 2.3:1   | 1.7:1   | 2.2:1   | 1.6:1   | 1.3:1   | 2.6:1   |
| 40          | 83.7 FC      | 38 FC   | 25.3 FC | 16.2 FC | 14.4 FC | 9 FC    | 8.3 FC  | 7.4 FC  | 4.4 FC  |
|             | 3.4:1        | 3.3:1   | 2.6:1   | 2.6:1   | 1.6:1   | 2:1     | 1.6:1   | 1.2:1   | 3.1:1   |
| 35          | 87.7 FC      | 39.9 FC | 26.5 FC | 17 FC   | 15.1 FC | 9.5 FC  | 8.8 FC  | 7.7 FC  | 4.6 FC  |
|             | 3.4:1        | 3.4:1   | 2.4:1   | 2.5:1   | 1.4:1   | 1.9:1   | 1.3:1   | 1.4:1   | 4.9:1   |
| 30          | 91.8 FC      | 41.8 FC | 27.8 FC | 18.2 FC | 15.7 FC | 10.2 FC | 9.1 FC  | 8 FC    | 5 FC    |
|             | 3.8:1        | 3.6:1   | 2.5:1   | 2.4:1   | 1.2:1   | 1.8:1   | 1.7:1   | 2.3:1   | 7.5:1   |
| 25          | 96.2 FC      | 43.8 FC | 29.2 FC | 18.9 FC | 16.5 FC | 10.7 FC | 9.7 FC  | 8.5 FC  | 5.1 FC  |
|             | 4:1          | 4.1:1   | 2.3:1   | 2.6:1   | 1.4:1   | 2.8:1   | 3.3:1   | 4.1:1   | 14.1:1  |
| 20          | 100.7 FC     | 46 FC   | 30.9 FC | 20.8 FC | 17.4 FC | 11.3 FC | 10.5 FC | 9.1 FC  | 5.3 FC  |
|             | 4.7:1        | 4.7:1   | 2.1:1   | 2.2:1   | 2.6:1   | 5.5:1   | 7:1     | 8.8:1   | 35.3:1  |
| 15          | 105.1 FC     | 48 FC   | 33.4 FC | 21 FC   | 18.6 FC | 11.9 FC | 11.5 FC | 9.9 FC  | 5.4 FC  |
|             | 5.8:1        | 8:1     | 3.1:1   | 10.5:1  | 7.3:1   | 17.2:1  | 18.6:1  | 21.7:1  | 104.8:1 |
| 10          | 113.4 FC     | 49.6 FC | 34.1 FC | 22 FC   | 20.6 FC | 13 FC   | 12.7 FC | 11.3 FC | 5.6 FC  |
|             | 9.4:1        | 28.3:1  | 17.7:1  | 42.1:1  | 27.5:1  | 71.9:1  | 70.1:1  | 76.6:1  | 552.5:1 |

## FIXTURE: H17S @ 80W + H17-RAL

12,126 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 82.4 FC      | 37.1 FC | 24.6 FC | 15.8 FC | 13.9 FC | 8.8 FC  | 8.1 FC  | 7.1 FC  | 4.2 FC  |
|             | 3.5:1        | 3.5:1   | 2.7:1   | 2.8:1   | 1.8:1   | 2.4:1   | 1.8:1   | 1.5:1   | 2.8:1   |
| 45          | 85.6 FC      | 38.6 FC | 25.6 FC | 16.7 FC | 14.5 FC | 9.2 FC  | 8.4 FC  | 7.4 FC  | 4.4 FC  |
|             | 3.7:1        | 3.8:1   | 2.7:1   | 2.6:1   | 1.7:1   | 2.3:1   | 1.6:1   | 1.3:1   | 3.2:1   |
| 40          | 89 FC        | 40.2 FC | 26.7 FC | 17.2 FC | 15 FC   | 9.6 FC  | 8.7 FC  | 7.6 FC  | 4.7 FC  |
|             | 3.9:1        | 3.9:1   | 2.8:1   | 2.9:1   | 1.7:1   | 2.1:1   | 1.5:1   | 1.2:1   | 3.9:1   |
| 35          | 92.4 FC      | 41.9 FC | 27.8 FC | 17.9 FC | 15.7 FC | 10 FC   | 9.1 FC  | 7.9 FC  | 4.9 FC  |
|             | 4:1          | 4.1:1   | 2.5:1   | 2.6:1   | 1.5:1   | 1.9:1   | 1.4:1   | 1.8:1   | 7.8:1   |
| 30          | 95.7 FC      | 43.5 FC | 28.9 FC | 19 FC   | 16.2 FC | 10.7 FC | 9.5 FC  | 8.2 FC  | 5.3 FC  |
|             | 4.4:1        | 4.2:1   | 2.6:1   | 2.4:1   | 1.2:1   | 1.7:1   | 2.5:1   | 3.6:1   | 15.3:1  |
| 25          | 99.3 FC      | 45.3 FC | 30.2 FC | 19.6 FC | 16.8 FC | 11.1 FC | 10.1 FC | 8.7 FC  | 5.2 FC  |
|             | 4.6:1        | 4.9:1   | 2.3:1   | 2.8:1   | 1.8:1   | 3.7:1   | 6.2:1   | 8.4:1   | 39:1    |
| 20          | 102.8 FC     | 47.1 FC | 31.8 FC | 21.5 FC | 17.8 FC | 11.8 FC | 10.9 FC | 9.3 FC  | 5.3 FC  |
|             | 5.6:1        | 6:1     | 2:1     | 2.5:1   | 4.6:1   | 12.1:1  | 16.6:1  | 17.9:1  | 86.7:1  |
| 15          | 106.4 FC     | 48.6 FC | 34.2 FC | 21.5 FC | 19.1 FC | 12.2 FC | 11.9 FC | 10.2 FC | 5.4 FC  |
|             | 7.9:1        | 13.2:1  | 4.7:1   | 26:1    | 16.8:1  | 46.4:1  | 40.1:1  | 40.2:1  | 256.5:1 |
| 10          | 114.1 FC     | 48.8 FC | 34.5 FC | 21.9 FC | 21.4 FC | 12.7 FC | 12.9 FC | 11.7 FC | 5.4 FC  |
|             | 16.1:1       | 53.4:1  | 45.5:1  | 87.6:1  | 50.2:1  | 143.6:1 | 135.1:1 | 133.8:1 | 1373:1  |

## FIXTURE: H17S @ 80W + H17-RPC

12,121 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 78.4 FC      | 35.3 FC | 23.4 FC | 15 FC   | 13.4 FC | 8.3 FC  | 7.7 FC  | 6.9 FC  | 4 FC    |
|             | 3.2:1        | 3.3:1   | 2.7:1   | 2.7:1   | 1.8:1   | 2.4:1   | 1.8:1   | 1.5:1   | 2.7:1   |
| 45          | 81.8 FC      | 36.9 FC | 24.5 FC | 16 FC   | 13.9 FC | 8.7 FC  | 8.1 FC  | 7.2 FC  | 4.2 FC  |
|             | 3.4:1        | 3.6:1   | 2.6:1   | 2.5:1   | 1.8:1   | 2.3:1   | 1.6:1   | 1.4:1   | 3.1:1   |
| 40          | 85.3 FC      | 38.6 FC | 25.6 FC | 16.4 FC | 14.5 FC | 9.2 FC  | 8.3 FC  | 7.5 FC  | 4.5 FC  |
|             | 3.5:1        | 3.7:1   | 2.6:1   | 2.8:1   | 1.8:1   | 2.1:1   | 1.6:1   | 1.2:1   | 3.6:1   |
| 35          | 88.9 FC      | 40.3 FC | 26.7 FC | 17.2 FC | 15.2 FC | 9.6 FC  | 8.8 FC  | 7.7 FC  | 4.7 FC  |
|             | 3.7:1        | 3.8:1   | 2.6:1   | 2.7:1   | 1.5:1   | 1.9:1   | 1.3:1   | 1.7:1   | 6.5:1   |
| 30          | 92.6 FC      | 42.1 FC | 27.9 FC | 18.2 FC | 15.7 FC | 10.3 FC | 9.2 FC  | 8 FC    | 5 FC    |
|             | 4.1:1        | 4:1     | 2.5:1   | 2.4:1   | 1.2:1   | 1.7:1   | 2.2:1   | 3:1     | 10.7:1  |
| 25          | 96.5 FC      | 43.9 FC | 29.3 FC | 18.9 FC | 16.4 FC | 10.7 FC | 9.7 FC  | 8.5 FC  | 5.1 FC  |
|             | 4.3:1        | 4.6:1   | 2.3:1   | 2.8:1   | 1.6:1   | 3.5:1   | 4.6:1   | 5.5:1   | 23:1    |
| 20          | 100.4 FC     | 45.9 FC | 30.9 FC | 20.8 FC | 17.3 FC | 11.3 FC | 10.6 FC | 9.1 FC  | 5.2 FC  |
|             | 4.9:1        | 5.2:1   | 2.1:1   | 2.5:1   | 3.6:1   | 8.1:1   | 9.8:1   | 11.3:1  | 57.3:1  |
| 15          | 104.2 FC     | 47.6 FC | 33.3 FC | 20.9 FC | 18.6 FC | 11.8 FC | 11.5 FC | 10 FC   | 5.3 FC  |
|             | 7.2:1        | 10.4:1  | 3.8:1   | 15.8:1  | 10:1    | 26.4:1  | 23.1:1  | 24.9:1  | 151.3:1 |
| 10          | 111.2 FC     | 48.2 FC | 33.7 FC | 21.7 FC | 21 FC   | 12.8 FC | 12.7 FC | 11.4 FC | 5.4 FC  |
|             | 11.9:1       | 34.7:1  | 25.6:1  | 52.7:1  | 32.9:1  | 83.8:1  | 83.4:1  | 90.9:1  | 602:1   |

# FIXTURE: H17S @ 80W + H17-RPC + H17-RDL

11,327 Lumens

| Height (ft) | Spacing (ft)      |                   |                  |                   |                  |                   |                   |                   |                  |
|-------------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|
|             | 10x10             | 15x15             | 20x20            | 25x25             | 30x30            | 35x35             | 40x40             | 45x45             | 50x50            |
| 50          | 67.8 FC<br>2.9:1  | 30.6 FC<br>3.1:1  | 20.4 FC<br>2.5:1 | 13.1 FC<br>2.5:1  | 11.7 FC<br>1.9:1 | 7.2 FC<br>2.3:1   | 6.8 FC<br>1.8:1   | 6.1 FC<br>1.6:1   | 3.5 FC<br>2.6:1  |
| 45          | 71.3 FC<br>3.1:1  | 32.3 FC<br>3.3:1  | 21.5 FC<br>2.5:1 | 14 FC<br>2.4:1    | 12.3 FC<br>1.9:1 | 7.7 FC<br>2.2:1   | 7.1 FC<br>1.7:1   | 6.4 FC<br>1.5:1   | 3.7 FC<br>2.7:1  |
| 40          | 74.8 FC<br>3.3:1  | 33.9 FC<br>3.4:1  | 22.6 FC<br>2.4:1 | 14.5 FC<br>2.7:1  | 12.9 FC<br>1.9:1 | 8.1 FC<br>2.1:1   | 7.4 FC<br>1.7:1   | 6.7 FC<br>1.4:1   | 3.9 FC<br>3.1:1  |
| 35          | 78.6 FC<br>3.4:1  | 35.7 FC<br>3.6:1  | 23.7 FC<br>2.5:1 | 15.3 FC<br>2.6:1  | 13.6 FC<br>1.6:1 | 8.5 FC<br>2:1     | 7.9 FC<br>1.3:1   | 6.9 FC<br>1.4:1   | 4.1 FC<br>4.4:1  |
| 30          | 82.4 FC<br>3.9:1  | 37.5 FC<br>3.7:1  | 25 FC<br>2.4:1   | 16.3 FC<br>2.4:1  | 14.2 FC<br>1.4:1 | 9.1 FC<br>1.8:1   | 8.2 FC<br>1.6:1   | 7.3 FC<br>2:1     | 4.4 FC<br>6.1:1  |
| 25          | 86.5 FC<br>4:1    | 39.5 FC<br>4.3:1  | 26.3 FC<br>2.2:1 | 17 FC<br>2.9:1    | 14.8 FC<br>1.4:1 | 9.6 FC<br>3:1     | 8.8 FC<br>2.7:1   | 7.6 FC<br>3.5:1   | 4.5 FC<br>10.2:1 |
| 20          | 90.8 FC<br>4.5:1  | 41.5 FC<br>4.9:1  | 27.8 FC<br>2.2:1 | 18.7 FC<br>2.2:1  | 15.7 FC<br>2.4:1 | 10.2 FC<br>5.1:1  | 9.4 FC<br>5.5:1   | 8.2 FC<br>6.8:1   | 4.7 FC<br>23.6:1 |
| 15          | 94.9 FC<br>6.3:1  | 43.4 FC<br>8:1    | 30.1 FC<br>2.7:1 | 18.9 FC<br>9.3:1  | 16.8 FC<br>5.9:1 | 10.7 FC<br>14.2:1 | 10.3 FC<br>14:1   | 9 FC<br>17:1      | 4.9 FC<br>80.3:1 |
| 10          | 102.9 FC<br>8.7:1 | 44.6 FC<br>22.9:1 | 31 FC<br>14.7:1  | 19.9 FC<br>31.6:1 | 19 FC<br>22.3:1  | 11.6 FC<br>53.1:1 | 11.4 FC<br>54.5:1 | 10.3 FC<br>66.1:1 | 5 FC<br>443:1    |

# FIXTURE: H17S @ 100W

14,509 Lumens

| Height (ft) | Spacing (ft)      |                   |                   |                   |                   |                   |                   |                   |                   |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|             | 10x10             | 15x15             | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50             |
| 50          | 90.2 FC<br>3:1    | 40.8 FC<br>2.9:1  | 27.1 FC<br>2.4:1  | 17.4 FC<br>2.5:1  | 15.6 FC<br>1.7:1  | 9.7 FC<br>2.3:1   | 9 FC<br>1.7:1     | 8.1 FC<br>1.5:1   | 4.6 FC<br>2.5:1   |
| 45          | 94.7 FC<br>3.1:1  | 42.9 FC<br>3.2:1  | 28.5 FC<br>2.4:1  | 18.6 FC<br>2.3:1  | 16.4 FC<br>1.7:1  | 10.2 FC<br>2.2:1  | 9.5 FC<br>1.6:1   | 8.5 FC<br>1.3:1   | 4.9 FC<br>2.7:1   |
| 40          | 99.2 FC<br>3.4:1  | 45 FC<br>3.3:1    | 29.9 FC<br>2.6:1  | 19.2 FC<br>2.6:1  | 17 FC<br>1.6:1    | 10.7 FC<br>2.1:1  | 9.8 FC<br>1.6:1   | 8.8 FC<br>1.2:1   | 5.2 FC<br>3:1     |
| 35          | 103.9 FC<br>3.4:1 | 47.2 FC<br>3.5:1  | 31.4 FC<br>2.4:1  | 20.2 FC<br>2.5:1  | 17.9 FC<br>1.4:1  | 11.3 FC<br>1.9:1  | 10.4 FC<br>1.3:1  | 9.2 FC<br>1.5:1   | 5.4 FC<br>4.8:1   |
| 30          | 108.8 FC<br>3.8:1 | 49.5 FC<br>3.6:1  | 32.9 FC<br>2.5:1  | 21.5 FC<br>2.4:1  | 18.7 FC<br>1.2:1  | 12 FC<br>1.8:1    | 10.8 FC<br>1.8:1  | 9.5 FC<br>2.3:1   | 5.9 FC<br>7.1:1   |
| 25          | 114 FC<br>4:1     | 51.9 FC<br>4.2:1  | 34.6 FC<br>2.3:1  | 22.4 FC<br>2.6:1  | 19.5 FC<br>1.4:1  | 12.6 FC<br>2.9:1  | 11.5 FC<br>3.3:1  | 10 FC<br>4.1:1    | 6 FC<br>13.7:1    |
| 20          | 119.3 FC<br>4.7:1 | 54.5 FC<br>4.7:1  | 36.6 FC<br>2.1:1  | 24.6 FC<br>2.2:1  | 20.6 FC<br>2.6:1  | 13.4 FC<br>5.5:1  | 12.4 FC<br>6.9:1  | 10.8 FC<br>8.6:1  | 6.2 FC<br>36:1    |
| 15          | 124.5 FC<br>5.8:1 | 56.9 FC<br>8:1    | 39.5 FC<br>3.1:1  | 24.9 FC<br>10.6:1 | 22 FC<br>7.3:1    | 14.1 FC<br>17.5:1 | 13.6 FC<br>18.8:1 | 11.8 FC<br>21.6:1 | 6.4 FC<br>124:1   |
| 10          | 134.3 FC<br>9.4:1 | 58.7 FC<br>28.3:1 | 40.4 FC<br>17.9:1 | 26.1 FC<br>41.6:1 | 24.4 FC<br>27.3:1 | 15.4 FC<br>71.6:1 | 15 FC<br>69.2:1   | 13.3 FC<br>79.4:1 | 6.6 FC<br>655.5:1 |

## FIXTURE: H17S @ 100W + H17-RAL

14,360 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 97.6 FC      | 43.9 FC | 29.1 FC | 18.7 FC | 16.5 FC | 10.4 FC | 9.6 FC  | 8.4 FC  | 5 FC    |
|             | 3.5:1        | 3.6:1   | 2.7:1   | 2.7:1   | 1.8:1   | 2.4:1   | 1.8:1   | 1.5:1   | 2.9:1   |
| 45          | 101.4 FC     | 45.8 FC | 30.3 FC | 19.8 FC | 17.1 FC | 10.8 FC | 10 FC   | 8.7 FC  | 5.2 FC  |
|             | 3.6:1        | 3.8:1   | 2.7:1   | 2.5:1   | 1.7:1   | 2.3:1   | 1.6:1   | 1.3:1   | 3.3:1   |
| 40          | 105.3 FC     | 47.7 FC | 31.6 FC | 20.3 FC | 17.8 FC | 11.3 FC | 10.3 FC | 9.1 FC  | 5.6 FC  |
|             | 3.9:1        | 3.9:1   | 2.8:1   | 2.9:1   | 1.7:1   | 2.1:1   | 1.6:1   | 1.2:1   | 3.8:1   |
| 35          | 109.4 FC     | 49.6 FC | 32.9 FC | 21.2 FC | 18.6 FC | 11.9 FC | 10.8 FC | 9.4 FC  | 5.8 FC  |
|             | 4:1          | 4.1:1   | 2.6:1   | 2.7:1   | 1.4:1   | 1.9:1   | 1.3:1   | 1.8:1   | 7.7:1   |
| 30          | 113.4 FC     | 51.5 FC | 34.2 FC | 22.5 FC | 19.2 FC | 12.7 FC | 11.3 FC | 9.8 FC  | 6.2 FC  |
|             | 4.4:1        | 4.2:1   | 2.6:1   | 2.4:1   | 1.2:1   | 1.7:1   | 2.5:1   | 3.6:1   | 14:1    |
| 25          | 117.6 FC     | 53.6 FC | 35.8 FC | 23.2 FC | 19.8 FC | 13.2 FC | 11.9 FC | 10.2 FC | 6.2 FC  |
|             | 4.6:1        | 4.9:1   | 2.3:1   | 2.8:1   | 1.8:1   | 3.6:1   | 6.3:1   | 8.4:1   | 46.3:1  |
| 20          | 121.7 FC     | 55.8 FC | 37.6 FC | 25.5 FC | 21 FC   | 13.9 FC | 13 FC   | 11 FC   | 6.3 FC  |
|             | 5.6:1        | 6:1     | 2:1     | 2.6:1   | 4.7:1   | 12.1:1  | 16.7:1  | 18.1:1  | 102.7:1 |
| 15          | 126 FC       | 57.6 FC | 40.5 FC | 25.4 FC | 22.7 FC | 14.4 FC | 14.1 FC | 12.1 FC | 6.4 FC  |
|             | 7.9:1        | 13.2:1  | 4.7:1   | 25.6:1  | 16.8:1  | 46.5:1  | 41.1:1  | 41.7:1  | 202.3:1 |
| 10          | 135.1 FC     | 57.8 FC | 40.8 FC | 25.9 FC | 25.3 FC | 15.1 FC | 15.3 FC | 13.9 FC | 6.4 FC  |
|             | 16.2:1       | 52:1    | 46:1    | 86.5:1  | 51:1    | 141.7:1 | 133.3:1 | 132:1   | 813:1   |

## FIXTURE: H17S @ 100W + H17-RPC

14,312 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |        |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|--------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50  |
| 50          | 92.6 FC      | 41.6 FC | 27.6 FC | 17.7 FC | 15.8 FC | 9.8 FC  | 9.1 FC  | 8.1 FC  | 4.7 FC |
|             | 3.2:1        | 3.4:1   | 2.7:1   | 2.7:1   | 1.8:1   | 2.4:1   | 1.8:1   | 1.5:1   | 2.7:1  |
| 45          | 96.6 FC      | 43.6 FC | 28.9 FC | 18.9 FC | 16.5 FC | 10.3 FC | 9.5 FC  | 8.5 FC  | 5 FC   |
|             | 3.4:1        | 3.6:1   | 2.6:1   | 2.5:1   | 1.8:1   | 2.3:1   | 1.7:1   | 1.4:1   | 3.2:1  |
| 40          | 100.7 FC     | 45.5 FC | 30.2 FC | 19.4 FC | 17.1 FC | 10.8 FC | 9.8 FC  | 8.8 FC  | 5.3 FC |
|             | 3.5:1        | 3.7:1   | 2.6:1   | 2.7:1   | 1.8:1   | 2.1:1   | 1.6:1   | 1.2:1   | 3.6:1  |
| 35          | 105 FC       | 47.5 FC | 31.6 FC | 20.3 FC | 17.9 FC | 11.4 FC | 10.4 FC | 9.1 FC  | 5.5 FC |
|             | 3.7:1        | 3.8:1   | 2.6:1   | 2.6:1   | 1.5:1   | 1.9:1   | 1.3:1   | 1.7:1   | 6.5:1  |
| 30          | 109.3 FC     | 49.7 FC | 33 FC   | 21.5 FC | 18.6 FC | 12.1 FC | 10.9 FC | 9.5 FC  | 5.9 FC |
|             | 4.1:1        | 4:1     | 2.5:1   | 2.4:1   | 1.3:1   | 1.7:1   | 2.2:1   | 2.9:1   | 11.3:1 |
| 25          | 114 FC       | 51.8 FC | 34.6 FC | 22.4 FC | 19.3 FC | 12.7 FC | 11.5 FC | 10 FC   | 6 FC   |
|             | 4.3:1        | 4.6:1   | 2.3:1   | 2.9:1   | 1.6:1   | 3.5:1   | 4.5:1   | 5.6:1   | 20.4:1 |
| 20          | 118.6 FC     | 54.2 FC | 36.4 FC | 24.6 FC | 20.4 FC | 13.4 FC | 12.5 FC | 10.7 FC | 6.1 FC |
|             | 4.9:1        | 5.2:1   | 2.1:1   | 2.5:1   | 3.6:1   | 8.2:1   | 9.7:1   | 11.1:1  | 54.2:1 |
| 15          | 123 FC       | 56.2 FC | 39.4 FC | 24.6 FC | 22 FC   | 14 FC   | 13.6 FC | 11.8 FC | 6.3 FC |
|             | 7.1:1        | 10.4:1  | 3.8:1   | 15.9:1  | 10:1    | 26.5:1  | 23.7:1  | 25.6:1  | 134:1  |
| 10          | 131.4 FC     | 56.9 FC | 39.8 FC | 25.6 FC | 24.8 FC | 15.1 FC | 15 FC   | 13.5 FC | 6.3 FC |
|             | 11.8:1       | 34.6:1  | 25.6:1  | 52.7:1  | 32.9:1  | 87.3:1  | 81.2:1  | 93:1    | 711:1  |

## FIXTURE: H17S @ 100W + H17-RPC + H17-RDL

13,464 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 80.6 FC      | 36.4 FC | 24.2 FC | 15.6 FC | 14 FC   | 8.6 FC  | 8 FC    | 7.2 FC  | 4.1 FC  |
|             | 2.9:1        | 3.1:1   | 2.5:1   | 2.5:1   | 1.9:1   | 2.3:1   | 1.8:1   | 1.6:1   | 2.7:1   |
| 45          | 84.7 FC      | 38.4 FC | 25.5 FC | 16.6 FC | 14.6 FC | 9.1 FC  | 8.5 FC  | 7.6 FC  | 4.4 FC  |
|             | 3.1:1        | 3.3:1   | 2.5:1   | 2.4:1   | 1.9:1   | 2.2:1   | 1.7:1   | 1.5:1   | 2.8:1   |
| 40          | 88.9 FC      | 40.3 FC | 26.8 FC | 17.2 FC | 15.3 FC | 9.6 FC  | 8.8 FC  | 7.9 FC  | 4.7 FC  |
|             | 3.3:1        | 3.4:1   | 2.4:1   | 2.7:1   | 1.9:1   | 2.1:1   | 1.7:1   | 1.3:1   | 3.1:1   |
| 35          | 93.4 FC      | 42.4 FC | 28.2 FC | 18.1 FC | 16.1 FC | 10.1 FC | 9.4 FC  | 8.3 FC  | 4.9 FC  |
|             | 3.5:1        | 3.6:1   | 2.5:1   | 2.6:1   | 1.6:1   | 2:1     | 1.3:1   | 1.4:1   | 4.2:1   |
| 30          | 97.8 FC      | 44.6 FC | 29.7 FC | 19.4 FC | 16.9 FC | 10.9 FC | 9.8 FC  | 8.6 FC  | 5.3 FC  |
|             | 3.9:1        | 3.7:1   | 2.4:1   | 2.5:1   | 1.4:1   | 1.8:1   | 1.6:1   | 2:1     | 6.1:1   |
| 25          | 102.9 FC     | 46.9 FC | 31.3 FC | 20.2 FC | 17.6 FC | 11.4 FC | 10.4 FC | 9.1 FC  | 5.4 FC  |
|             | 4.1:1        | 4.4:1   | 2.2:1   | 2.9:1   | 1.3:1   | 3.1:1   | 2.8:1   | 3.4:1   | 10.1:1  |
| 20          | 107.7 FC     | 49.4 FC | 33.1 FC | 22.2 FC | 18.6 FC | 12.1 FC | 11.2 FC | 9.7 FC  | 5.6 FC  |
|             | 4.5:1        | 4.9:1   | 2.2:1   | 2.2:1   | 2.4:1   | 5.2:1   | 5.4:1   | 6.8:1   | 24.6:1  |
| 15          | 112.8 FC     | 51.5 FC | 35.9 FC | 22.5 FC | 20 FC   | 12.7 FC | 12.2 FC | 10.7 FC | 5.8 FC  |
|             | 6.3:1        | 7.9:1   | 2.7:1   | 9.4:1   | 5.9:1   | 14.3:1  | 13.9:1  | 17.2:1  | 76:1    |
| 10          | 122.2 FC     | 52.9 FC | 36.9 FC | 23.7 FC | 22.6 FC | 13.9 FC | 13.6 FC | 12.2 FC | 5.9 FC  |
|             | 8.7:1        | 22.8:1  | 14.8:1  | 32.1:1  | 22.4:1  | 51.1:1  | 55.1:1  | 64.4:1  | 355.7:1 |

## FIXTURE: H17 @ 100W

16,629 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |        |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|--------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50  |
| 50          | 102.4 FC     | 46.4 FC | 30.8 FC | 19.8 FC | 17.7 FC | 11 FC   | 10.2 FC | 9.2 FC  | 5.2 FC |
|             | 3.2:1        | 3.2:1   | 2.6:1   | 2.7:1   | 1.8:1   | 2.3:1   | 1.7:1   | 1.5:1   | 2.9:1  |
| 45          | 107.6 FC     | 48.7 FC | 32.4 FC | 21.2 FC | 18.6 FC | 11.6 FC | 10.8 FC | 9.6 FC  | 5.5 FC |
|             | 3.3:1        | 3.5:1   | 2.6:1   | 2.5:1   | 1.7:1   | 2.2:1   | 1.6:1   | 1.4:1   | 3.3:1  |
| 40          | 112.7 FC     | 51.2 FC | 34 FC   | 21.9 FC | 19.4 FC | 12.2 FC | 11.2 FC | 10 FC   | 5.9 FC |
|             | 3.4:1        | 3.5:1   | 2.6:1   | 2.6:1   | 1.7:1   | 2.2:1   | 1.6:1   | 1.2:1   | 3.7:1  |
| 35          | 117.9 FC     | 53.7 FC | 35.7 FC | 23 FC   | 20.4 FC | 12.8 FC | 11.9 FC | 10.4 FC | 6.2 FC |
|             | 3.9:1        | 3.8:1   | 2.6:1   | 2.6:1   | 1.4:1   | 2.1:1   | 1.3:1   | 1.5:1   | 5.9:1  |
| 30          | 123.6 FC     | 56.3 FC | 37.5 FC | 24.5 FC | 21.2 FC | 13.7 FC | 12.3 FC | 10.8 FC | 6.7 FC |
|             | 3.8:1        | 3.9:1   | 2.5:1   | 2.4:1   | 1.2:1   | 2:1     | 1.8:1   | 2.3:1   | 8.8:1  |
| 25          | 129.4 FC     | 59.1 FC | 39.4 FC | 25.5 FC | 22.2 FC | 14.3 FC | 13.1 FC | 11.4 FC | 6.8 FC |
|             | 4.3:1        | 4.3:1   | 2.4:1   | 2.7:1   | 1.4:1   | 3.4:1   | 3.2:1   | 4.1:1   | 15.7:1 |
| 20          | 135.3 FC     | 62 FC   | 41.6 FC | 28 FC   | 23.5 FC | 15.2 FC | 14.2 FC | 12.3 FC | 7.1 FC |
|             | 4.7:1        | 5.3:1   | 2.3:1   | 2.5:1   | 2.7:1   | 6.7:1   | 6.9:1   | 8.5:1   | 41.1:1 |
| 15          | 141.2 FC     | 64.6 FC | 45.1 FC | 28.3 FC | 25.1 FC | 16.1 FC | 15.4 FC | 13.4 FC | 7.3 FC |
|             | 6.9:1        | 8.7:1   | 2.9:1   | 11.3:1  | 7.4:1   | 18:1    | 18.9:1  | 21.9:1  | 142:1  |
| 10          | 151.6 FC     | 66.5 FC | 46.1 FC | 29.7 FC | 27.9 FC | 17.6 FC | 17.1 FC | 15.2 FC | 7.5 FC |
|             | 10.9:1       | 30.4:1  | 21:1    | 45.3:1  | 25.6:1  | 78.2:1  | 73.4:1  | 80.6:1  | 743:1  |

## FIXTURE: H17 @ 100W + H17-RAL

16,201 Lumens

| Height (ft) | Spacing (ft)       |                   |                   |                   |                   |                   |                    |                    |                   |
|-------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|
|             | 10x10              | 15x15             | 20x20             | 25x25             | 30x30             | 35x35             | 40x40              | 45x45              | 50x50             |
| 50          | 109.4 FC<br>3.4:1  | 49.3 FC<br>3.5:1  | 32.7 FC<br>2.7:1  | 21 FC<br>2.7:1    | 18.5 FC<br>1.8:1  | 11.6 FC<br>2.4:1  | 10.7 FC<br>1.8:1   | 9.5 FC<br>1.5:1    | 5.6 FC<br>2.7:1   |
| 45          | 113.9 FC<br>3.6:1  | 51.4 FC<br>3.8:1  | 34.1 FC<br>2.7:1  | 22.3 FC<br>2.5:1  | 19.2 FC<br>1.8:1  | 12.2 FC<br>2.3:1  | 11.2 FC<br>1.6:1   | 9.8 FC<br>1.3:1    | 5.9 FC<br>3.2:1   |
| 40          | 118.4 FC<br>3.9:1  | 53.5 FC<br>3.9:1  | 35.5 FC<br>2.8:1  | 22.8 FC<br>2.8:1  | 20 FC<br>1.7:1    | 12.8 FC<br>2.1:1  | 11.5 FC<br>1.6:1   | 10.2 FC<br>1.2:1   | 6.3 FC<br>3.7:1   |
| 35          | 123.1 FC<br>3.9:1  | 55.8 FC<br>4.1:1  | 37 FC<br>2.6:1    | 23.9 FC<br>2.7:1  | 20.9 FC<br>1.4:1  | 13.4 FC<br>1.9:1  | 12.2 FC<br>1.3:1   | 10.6 FC<br>1.8:1   | 6.5 FC<br>7.4:1   |
| 30          | 127.7 FC<br>4.4:1  | 58 FC<br>4.2:1    | 38.6 FC<br>2.6:1  | 25.3 FC<br>2.4:1  | 21.6 FC<br>1.2:1  | 14.3 FC<br>1.7:1  | 12.7 FC<br>2.4:1   | 11 FC<br>3.4:1     | 7 FC<br>14.1:1    |
| 25          | 132.5 FC<br>4.6:1  | 60.4 FC<br>4.9:1  | 40.4 FC<br>2.3:1  | 26.1 FC<br>2.8:1  | 22.4 FC<br>1.7:1  | 14.8 FC<br>3.5:1  | 13.4 FC<br>5.9:1   | 11.5 FC<br>8.5:1   | 7 FC<br>41.6:1    |
| 20          | 137.2 FC<br>5.7:1  | 62.9 FC<br>6.1:1  | 42.4 FC<br>2:1    | 28.7 FC<br>2.6:1  | 23.7 FC<br>4.6:1  | 15.7 FC<br>11.5:1 | 14.6 FC<br>16.5:1  | 12.4 FC<br>17.7:1  | 7.1 FC<br>87.3:1  |
| 15          | 142.3 FC<br>8.2:1  | 64.9 FC<br>13.3:1 | 45.7 FC<br>4.7:1  | 28.7 FC<br>27.2:1 | 25.7 FC<br>16.7:1 | 16.2 FC<br>46.3:1 | 15.9 FC<br>39.6:1  | 13.7 FC<br>42.5:1  | 7.2 FC<br>233.7:1 |
| 10          | 151.2 FC<br>18.2:1 | 64.9 FC<br>57.5:1 | 46.2 FC<br>51.7:1 | 29.2 FC<br>93.5:1 | 28.9 FC<br>53:1   | 17 FC<br>157.8:1  | 17.4 FC<br>136.6:1 | 15.8 FC<br>143.6:1 | 7.2 FC<br>977:1   |

## FIXTURE: H17 @ 100W + H17-RPC

16,336 Lumens

| Height (ft) | Spacing (ft)       |                   |                   |                   |                   |                   |                   |                    |                   |
|-------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|
|             | 10x10              | 15x15             | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45              | 50x50             |
| 50          | 105.4 FC<br>3.2:1  | 47.5 FC<br>3.3:1  | 31.5 FC<br>2.6:1  | 20.2 FC<br>2.6:1  | 18 FC<br>1.8:1    | 11.2 FC<br>2.3:1  | 10.4 FC<br>1.8:1  | 9.3 FC<br>1.5:1    | 5.4 FC<br>2.6:1   |
| 45          | 110.1 FC<br>3.4:1  | 49.7 FC<br>3.5:1  | 33 FC<br>2.5:1    | 21.5 FC<br>2.4:1  | 18.8 FC<br>1.8:1  | 11.8 FC<br>2.2:1  | 10.9 FC<br>1.6:1  | 9.7 FC<br>1.4:1    | 5.7 FC<br>3:1     |
| 40          | 114.8 FC<br>3.7:1  | 52 FC<br>3.6:1    | 34.5 FC<br>2.7:1  | 22.1 FC<br>2.7:1  | 19.5 FC<br>1.7:1  | 12.3 FC<br>2:1    | 11.2 FC<br>1.5:1  | 10.1 FC<br>1.2:1   | 6.1 FC<br>3.6:1   |
| 35          | 119.8 FC<br>3.6:1  | 54.3 FC<br>3.7:1  | 36.1 FC<br>2.5:1  | 23.2 FC<br>2.6:1  | 20.4 FC<br>1.5:1  | 13 FC<br>1.9:1    | 11.9 FC<br>1.3:1  | 10.4 FC<br>1.7:1   | 6.3 FC<br>6.1:1   |
| 30          | 124.8 FC<br>4.1:1  | 56.7 FC<br>3.9:1  | 37.7 FC<br>2.5:1  | 24.6 FC<br>2.4:1  | 21.2 FC<br>1.2:1  | 13.9 FC<br>1.7:1  | 12.4 FC<br>2.3:1  | 10.8 FC<br>3:1     | 6.8 FC<br>10.1:1  |
| 25          | 130.1 FC<br>4.3:1  | 59.2 FC<br>4.5:1  | 39.5 FC<br>2.3:1  | 25.6 FC<br>2.8:1  | 22.1 FC<br>1.7:1  | 14.5 FC<br>3.4:1  | 13.2 FC<br>4.6:1  | 11.4 FC<br>5.7:1   | 6.8 FC<br>21.2:1  |
| 20          | 135.3 FC<br>5.2:1  | 61.9 FC<br>5.5:1  | 41.7 FC<br>2:1    | 28.1 FC<br>2.5:1  | 23.4 FC<br>3.7:1  | 15.3 FC<br>8:1    | 14.3 FC<br>10.1:1 | 12.3 FC<br>11.9:1  | 7 FC<br>53.5:1    |
| 15          | 140.5 FC<br>7:1    | 64.2 FC<br>10.1:1 | 45 FC<br>4.4:1    | 28.2 FC<br>16.2:1 | 25.3 FC<br>10.8:1 | 16 FC<br>26.6:1   | 15.6 FC<br>24.3:1 | 13.6 FC<br>26.9:1  | 7.2 FC<br>161.5:1 |
| 10          | 149.6 FC<br>12.6:1 | 64.7 FC<br>37.7:1 | 45.6 FC<br>27.9:1 | 29.1 FC<br>57.7:1 | 28.7 FC<br>37.2:1 | 17.1 FC<br>93.6:1 | 17.3 FC<br>90.5:1 | 15.7 FC<br>101.4:1 | 7.2 FC<br>899:1   |

## FIXTURE: H17 @ 100W + H17-RPC + H17-RDL

15,335 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 91.8 FC      | 41.6 FC | 27.7 FC | 17.8 FC | 15.9 FC | 9.8 FC  | 9.2 FC  | 8.2 FC  | 4.7 FC  |
|             | 2.8:1        | 2.9:1   | 2.4:1   | 2.4:1   | 1.8:1   | 2.2:1   | 1.8:1   | 1.6:1   | 2.5:1   |
| 45          | 96.7 FC      | 43.8 FC | 29.1 FC | 19 FC   | 16.8 FC | 10.4 FC | 9.7 FC  | 8.7 FC  | 5 FC    |
|             | 3:1          | 3:1     | 2.4:1   | 2.3:1   | 1.8:1   | 2.1:1   | 1.6:1   | 1.4:1   | 2.7:1   |
| 40          | 101.4 FC     | 46.1 FC | 30.6 FC | 19.7 FC | 17.5 FC | 11 FC   | 10 FC   | 9 FC    | 5.4 FC  |
|             | 3.3:1        | 3.2:1   | 2.5:1   | 2.5:1   | 1.8:1   | 2:1     | 1.6:1   | 1.3:1   | 3:1     |
| 35          | 106.5 FC     | 48.4 FC | 32.2 FC | 20.7 FC | 18.4 FC | 11.6 FC | 10.7 FC | 9.4 FC  | 5.6 FC  |
|             | 3.3:1        | 3.3:1   | 2.4:1   | 2.5:1   | 1.6:1   | 1.9:1   | 1.3:1   | 1.4:1   | 4.3:1   |
| 30          | 111.7 FC     | 50.9 FC | 33.8 FC | 22.1 FC | 19.2 FC | 12.4 FC | 11.2 FC | 9.8 FC  | 6 FC    |
|             | 3.7:1        | 3.5:1   | 2.4:1   | 2.3:1   | 1.3:1   | 1.7:1   | 1.7:1   | 2.1:1   | 6.3:1   |
| 25          | 117.5 FC     | 53.5 FC | 35.7 FC | 23.1 FC | 20.1 FC | 13 FC   | 11.9 FC | 10.4 FC | 6.1 FC  |
|             | 3.9:1        | 4:1     | 2.3:1   | 2.6:1   | 1.3:1   | 2.8:1   | 2.9:1   | 3.5:1   | 10.9:1  |
| 20          | 123.1 FC     | 56.3 FC | 37.8 FC | 25.4 FC | 21.3 FC | 13.8 FC | 12.8 FC | 11.1 FC | 6.4 FC  |
|             | 4.6:1        | 4.7:1   | 2.1:1   | 2.1:1   | 2.5:1   | 5.1:1   | 5.6:1   | 7.3:1   | 25.9:1  |
| 15          | 128.8 FC     | 58.9 FC | 41 FC   | 25.8 FC | 22.9 FC | 14.5 FC | 14 FC   | 12.2 FC | 6.7 FC  |
|             | 5.7:1        | 7.4:1   | 3.1:1   | 9.2:1   | 6.5:1   | 14.4:1  | 14.7:1  | 17.9:1  | 77.3:1  |
| 10          | 138.9 FC     | 59.9 FC | 42.2 FC | 27.1 FC | 26.1 FC | 15.8 FC | 15.6 FC | 14.2 FC | 6.8 FC  |
|             | 8.7:1        | 24.2:1  | 15.9:1  | 35.4:1  | 25:1    | 57.3:1  | 62.1:1  | 72.1:1  | 452.7:1 |

## FIXTURE: H17 @ 120W

19,142 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 120.2 FC     | 54.4 FC | 36.2 FC | 23.3 FC | 20.8 FC | 12.9 FC | 12 FC   | 10.7 FC | 6.1 FC  |
|             | 3.2:1        | 3.2:1   | 2.6:1   | 2.7:1   | 1.8:1   | 2.3:1   | 1.7:1   | 1.6:1   | 2.9:1   |
| 45          | 126.3 FC     | 57.2 FC | 38.1 FC | 24.9 FC | 21.9 FC | 13.6 FC | 12.6 FC | 11.3 FC | 6.5 FC  |
|             | 3.3:1        | 3.5:1   | 2.6:1   | 2.5:1   | 1.7:1   | 2.3:1   | 1.6:1   | 1.4:1   | 3.2:1   |
| 40          | 132.3 FC     | 60.1 FC | 40 FC   | 25.7 FC | 22.8 FC | 14.3 FC | 13.1 FC | 11.8 FC | 7 FC    |
|             | 3.4:1        | 3.4:1   | 2.6:1   | 2.6:1   | 1.7:1   | 2.2:1   | 1.6:1   | 1.2:1   | 3.8:1   |
| 35          | 138.5 FC     | 63 FC   | 42 FC   | 27 FC   | 24 FC   | 15.1 FC | 13.9 FC | 12.3 FC | 7.3 FC  |
|             | 3.8:1        | 3.8:1   | 2.6:1   | 2.6:1   | 1.4:1   | 2.1:1   | 1.3:1   | 1.5:1   | 6.2:1   |
| 30          | 145.1 FC     | 66.2 FC | 44 FC   | 28.8 FC | 24.9 FC | 16.1 FC | 14.5 FC | 12.7 FC | 7.8 FC  |
|             | 3.8:1        | 3.9:1   | 2.5:1   | 2.4:1   | 1.3:1   | 2:1     | 1.8:1   | 2.3:1   | 8.5:1   |
| 25          | 151.9 FC     | 69.4 FC | 46.3 FC | 29.9 FC | 26.1 FC | 16.8 FC | 15.3 FC | 13.4 FC | 8 FC    |
|             | 4.3:1        | 4.3:1   | 2.4:1   | 2.7:1   | 1.4:1   | 3.4:1   | 3.2:1   | 4.1:1   | 15.6:1  |
| 20          | 158.9 FC     | 72.8 FC | 48.9 FC | 32.9 FC | 27.6 FC | 17.9 FC | 16.6 FC | 14.4 FC | 8.3 FC  |
|             | 4.7:1        | 5.3:1   | 2.3:1   | 2.5:1   | 2.7:1   | 6.7:1   | 6.9:1   | 8.4:1   | 42.1:1  |
| 15          | 165.8 FC     | 75.9 FC | 52.9 FC | 33.2 FC | 29.5 FC | 18.9 FC | 18.1 FC | 15.8 FC | 8.6 FC  |
|             | 6.9:1        | 8.7:1   | 2.8:1   | 11.1:1  | 7.4:1   | 18.2:1  | 18.5:1  | 21.9:1  | 133.2:1 |
| 10          | 178.1 FC     | 78.1 FC | 54.2 FC | 34.8 FC | 32.8 FC | 20.6 FC | 20 FC   | 17.9 FC | 8.8 FC  |
|             | 10.9:1       | 30.2:1  | 21:1    | 44.5:1  | 25.5:1  | 76.3:1  | 71.6:1  | 81:1    | 580:1   |

## FIXTURE: H17 @ 120W + H17-RAL

19,028 Lumens

| Height (ft) | Spacing (ft)       |                   |                   |                   |                   |                   |                    |                    |                   |
|-------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|
|             | 10x10              | 15x15             | 20x20             | 25x25             | 30x30             | 35x35             | 40x40              | 45x45              | 50x50             |
| 50          | 128.5 FC<br>3.4:1  | 57.9 FC<br>3.5:1  | 38.4 FC<br>2.7:1  | 24.7 FC<br>2.7:1  | 21.8 FC<br>1.8:1  | 13.7 FC<br>2.4:1  | 12.6 FC<br>1.8:1   | 11.2 FC<br>1.5:1   | 6.6 FC<br>2.8:1   |
| 45          | 133.7 FC<br>3.6:1  | 60.3 FC<br>3.8:1  | 40 FC<br>2.7:1    | 26.1 FC<br>2.6:1  | 22.6 FC<br>1.8:1  | 14.3 FC<br>2.3:1  | 13.1 FC<br>1.6:1   | 11.6 FC<br>1.3:1   | 6.9 FC<br>3.2:1   |
| 40          | 139 FC<br>3.9:1    | 62.9 FC<br>3.9:1  | 41.7 FC<br>2.8:1  | 26.8 FC<br>2.8:1  | 23.5 FC<br>1.7:1  | 15 FC<br>2.1:1    | 13.5 FC<br>1.6:1   | 11.9 FC<br>1.2:1   | 7.4 FC<br>3.8:1   |
| 35          | 144.6 FC<br>3.9:1  | 65.5 FC<br>4.1:1  | 43.5 FC<br>2.5:1  | 28 FC<br>2.7:1    | 24.5 FC<br>1.4:1  | 15.7 FC<br>1.9:1  | 14.3 FC<br>1.3:1   | 12.5 FC<br>1.8:1   | 7.6 FC<br>7.1:1   |
| 30          | 150 FC<br>4.4:1    | 68.1 FC<br>4.2:1  | 45.3 FC<br>2.5:1  | 29.7 FC<br>2.4:1  | 25.4 FC<br>1.2:1  | 16.7 FC<br>1.7:1  | 14.9 FC<br>2.4:1   | 12.9 FC<br>3.4:1   | 8.2 FC<br>13.8:1  |
| 25          | 155.6 FC<br>4.6:1  | 70.9 FC<br>4.9:1  | 47.4 FC<br>2.3:1  | 30.7 FC<br>2.8:1  | 26.3 FC<br>1.7:1  | 17.4 FC<br>3.5:1  | 15.8 FC<br>5.9:1   | 13.6 FC<br>8.3:1   | 8.2 FC<br>40.7:1  |
| 20          | 161.1 FC<br>5.6:1  | 73.9 FC<br>6.1:1  | 49.8 FC<br>2:1    | 33.7 FC<br>2.6:1  | 27.8 FC<br>4.6:1  | 18.4 FC<br>11.6:1 | 17.1 FC<br>16.5:1  | 14.6 FC<br>17.7:1  | 8.4 FC<br>102.3:1 |
| 15          | 167.1 FC<br>8.2:1  | 76.2 FC<br>13.4:1 | 53.7 FC<br>4.7:1  | 33.7 FC<br>27.7:1 | 30.2 FC<br>16.6:1 | 19.1 FC<br>47.9:1 | 18.7 FC<br>39.9:1  | 16.1 FC<br>40.9:1  | 8.5 FC<br>205.8:1 |
| 10          | 177.7 FC<br>18.1:1 | 76.2 FC<br>56.8:1 | 54.2 FC<br>50.8:1 | 34.2 FC<br>95.4:1 | 33.9 FC<br>52.4:1 | 20 FC<br>150.4:1  | 20.4 FC<br>140.4:1 | 18.5 FC<br>146.1:1 | 8.4 FC<br>1147:1  |

## FIXTURE: H17 @ 120W + H17-RPC

19,070 Lumens

| Height (ft) | Spacing (ft)      |                   |                  |                  |                  |                  |                  |                  |                 |
|-------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
|             | 10x10             | 15x15             | 20x20            | 25x25            | 30x30            | 35x35            | 40x40            | 45x45            | 50x50           |
| 50          | 22 FC<br>3.2:1    | 9.9 FC<br>3.3:1   | 6.6 FC<br>2.5:1  | 4.2 FC<br>2.6:1  | 3.8 FC<br>1.7:1  | 2.3 FC<br>2.4:1  | 2.2 FC<br>1.8:1  | 1.9 FC<br>1.5:1  | 1.1 FC<br>2.8:1 |
| 45          | 23 FC<br>3.4:1    | 10.4 FC<br>3.5:1  | 6.9 FC<br>2.5:1  | 4.5 FC<br>2.5:1  | 3.9 FC<br>1.8:1  | 2.5 FC<br>2.2:1  | 2.3 FC<br>1.6:1  | 2 FC<br>1.4:1    | 1.2 FC<br>3:1   |
| 40          | 24 FC<br>3.6:1    | 10.9 FC<br>3.6:1  | 7.2 FC<br>2.7:1  | 4.6 FC<br>2.6:1  | 4.1 FC<br>1.7:1  | 2.6 FC<br>2.1:1  | 2.4 FC<br>1.5:1  | 2.1 FC<br>1.2:1  | 1.3 FC<br>3.2:1 |
| 35          | 25 FC<br>3.6:1    | 11.3 FC<br>3.7:1  | 7.5 FC<br>2.5:1  | 4.8 FC<br>2.5:1  | 4.3 FC<br>1.5:1  | 2.7 FC<br>1.8:1  | 2.5 FC<br>1.3:1  | 2.2 FC<br>1.7:1  | 1.3 FC<br>6.7:1 |
| 30          | 26.1 FC<br>4.1:1  | 11.8 FC<br>3.9:1  | 7.9 FC<br>2.5:1  | 5.2 FC<br>2.4:1  | 4.4 FC<br>1.2:1  | 2.9 FC<br>1.7:1  | 2.6 FC<br>2.3:1  | 2.3 FC<br>3.1:1  | 1.4 FC<br>9:1   |
| 25          | 27.2 FC<br>4.3:1  | 12.4 FC<br>4.4:1  | 8.3 FC<br>2.3:1  | 5.3 FC<br>2.7:1  | 4.6 FC<br>1.7:1  | 3 FC<br>3.5:1    | 2.8 FC<br>4.7:1  | 2.4 FC<br>6:1    | 1.4 FC<br>20:1  |
| 20          | 28.3 FC<br>5.2:1  | 12.9 FC<br>5.5:1  | 8.7 FC<br>2:1    | 5.9 FC<br>2.5:1  | 4.9 FC<br>3.7:1  | 3.2 FC<br>7.6:1  | 3 FC<br>10.6:1   | 2.6 FC<br>11.4:1 | 1.5 FC<br>67:1  |
| 15          | 29.4 FC<br>7:1    | 13.4 FC<br>10.1:1 | 9.4 FC<br>4.4:1  | 5.9 FC<br>17:1   | 5.3 FC<br>10.4:1 | 3.3 FC<br>26.6:1 | 3.3 FC<br>22.8:1 | 2.8 FC<br>24.3:1 | 1.5 FC<br>135:1 |
| 10          | 31.3 FC<br>12.5:1 | 13.5 FC<br>37.2:1 | 9.5 FC<br>29.2:1 | 6.1 FC<br>60.2:1 | 6 FC<br>37.1:1   | 3.6 FC<br>97.8:1 | 3.6 FC<br>89.8:1 | 3.3 FC<br>90:1   | 1.5 FC<br>375:1 |

# FIXTURE: H17 @ 120W + H17-RPC + H17-RDL

17,878 Lumens

| Height (ft) | Spacing (ft)      |                  |                  |                   |                   |                   |                   |                   |                   |
|-------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|             | 10x10             | 15x15            | 20x20            | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50             |
| 50          | 123.9 FC<br>2.8:1 | 56.1 FC<br>2.9:1 | 37.3 FC<br>2.4:1 | 24 FC<br>2.4:1    | 21.5 FC<br>1.8:1  | 13.3 FC<br>2.2:1  | 12.4 FC<br>1.7:1  | 11.1 FC<br>1.6:1  | 6.3 FC<br>2.4:1   |
| 45          | 130.4 FC<br>3:1   | 59.1 FC<br>3:1   | 39.3 FC<br>2.4:1 | 25.6 FC<br>2.3:1  | 22.6 FC<br>1.8:1  | 14 FC<br>2.1:1    | 13 FC<br>1.6:1    | 11.7 FC<br>1.4:1  | 6.7 FC<br>2.7:1   |
| 40          | 136.8 FC<br>3.3:1 | 62.1 FC<br>3.2:1 | 41.3 FC<br>2.5:1 | 26.5 FC<br>2.5:1  | 23.6 FC<br>1.8:1  | 14.8 FC<br>2:1    | 13.5 FC<br>1.6:1  | 12.2 FC<br>1.3:1  | 7.2 FC<br>2.8:1   |
| 35          | 143.7 FC<br>3.3:1 | 65.3 FC<br>3.3:1 | 43.4 FC<br>2.4:1 | 27.9 FC<br>2.5:1  | 24.8 FC<br>1.6:1  | 15.6 FC<br>1.9:1  | 14.4 FC<br>1.3:1  | 12.7 FC<br>1.4:1  | 7.5 FC<br>4.3:1   |
| 30          | 150.8 FC<br>3.7:1 | 68.7 FC<br>3.5:1 | 45.7 FC<br>2.4:1 | 29.9 FC<br>2.3:1  | 25.9 FC<br>1.3:1  | 16.7 FC<br>1.7:1  | 15.1 FC<br>1.7:1  | 13.3 FC<br>2.1:1  | 8.1 FC<br>6.2:1   |
| 25          | 158.5 FC<br>3.9:1 | 72.2 FC<br>4:1   | 48.2 FC<br>2.3:1 | 31.1 FC<br>2.7:1  | 27.1 FC<br>1.3:1  | 17.6 FC<br>2.8:1  | 16.1 FC<br>2.8:1  | 14 FC<br>3.5:1    | 8.3 FC<br>11.2:1  |
| 20          | 166.1 FC<br>4.6:1 | 76 FC<br>4.7:1   | 51 FC<br>2.1:1   | 34.3 FC<br>2.1:1  | 28.8 FC<br>2.4:1  | 18.6 FC<br>5:1    | 17.3 FC<br>5.6:1  | 15 FC<br>7.2:1    | 8.7 FC<br>26.3:1  |
| 15          | 174 FC<br>5.8:1   | 79.5 FC<br>7.3:1 | 55.3 FC<br>3.1:1 | 34.7 FC<br>9.2:1  | 30.9 FC<br>6.4:1  | 19.6 FC<br>14.4:1 | 18.9 FC<br>14.9:1 | 16.5 FC<br>18.2:1 | 9 FC<br>78.4:1    |
| 10          | 187.4 FC<br>8.6:1 | 81 FC<br>24:1    | 57 FC<br>16:1    | 36.5 FC<br>35.1:1 | 35.2 FC<br>24.8:1 | 21.2 FC<br>57.7:1 | 21.2 FC<br>61:1   | 19.1 FC<br>71:1   | 9.1 FC<br>451.5:1 |

# FIXTURE: H17 @ 150W

21,138 Lumens

| Height (ft) | Spacing (ft)       |                   |                   |                   |                   |                   |                   |                   |                    |
|-------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10              | 15x15             | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 138.7 FC<br>3.2:1  | 62.8 FC<br>3.2:1  | 41.7 FC<br>2.6:1  | 26.8 FC<br>2.7:1  | 24 FC<br>1.8:1    | 14.8 FC<br>2.3:1  | 13.8 FC<br>1.7:1  | 12.4 FC<br>1.6:1  | 7.1 FC<br>2.9:1    |
| 45          | 145.7 FC<br>3.3:1  | 66 FC<br>3.5:1    | 43.9 FC<br>2.6:1  | 28.7 FC<br>2.5:1  | 25.2 FC<br>1.7:1  | 15.7 FC<br>2.3:1  | 14.6 FC<br>1.6:1  | 13.1 FC<br>1.4:1  | 7.5 FC<br>3.2:1    |
| 40          | 152.6 FC<br>3.4:1  | 69.3 FC<br>3.5:1  | 46.1 FC<br>2.6:1  | 29.6 FC<br>2.6:1  | 26.3 FC<br>1.7:1  | 16.5 FC<br>2.2:1  | 15.1 FC<br>1.6:1  | 13.6 FC<br>1.2:1  | 8.1 FC<br>3.7:1    |
| 35          | 159.7 FC<br>3.9:1  | 72.7 FC<br>3.8:1  | 48.4 FC<br>2.6:1  | 31.1 FC<br>2.6:1  | 27.6 FC<br>1.5:1  | 17.4 FC<br>2.1:1  | 16 FC<br>1.3:1    | 14.1 FC<br>1.5:1  | 8.4 FC<br>6.1:1    |
| 30          | 167.3 FC<br>3.8:1  | 76.3 FC<br>3.9:1  | 50.8 FC<br>2.5:1  | 33.2 FC<br>2.4:1  | 28.8 FC<br>1.3:1  | 18.6 FC<br>2:1    | 16.7 FC<br>1.8:1  | 14.7 FC<br>2.3:1  | 9 FC<br>8.7:1      |
| 25          | 175.2 FC<br>4.3:1  | 80 FC<br>4.3:1    | 53.4 FC<br>2.4:1  | 34.5 FC<br>2.7:1  | 30.1 FC<br>1.4:1  | 19.4 FC<br>3.4:1  | 17.7 FC<br>3.2:1  | 15.5 FC<br>4.1:1  | 9.2 FC<br>15.6:1   |
| 20          | 183.3 FC<br>4.7:1  | 84 FC<br>5.3:1    | 56.4 FC<br>2.3:1  | 37.9 FC<br>2.5:1  | 31.8 FC<br>2.7:1  | 20.6 FC<br>6.7:1  | 19.2 FC<br>6.9:1  | 16.7 FC<br>8.3:1  | 9.6 FC<br>38.9:1   |
| 15          | 191.2 FC<br>6.9:1  | 87.5 FC<br>8.7:1  | 61 FC<br>2.9:1    | 38.3 FC<br>11.2:1 | 34.1 FC<br>7.4:1  | 21.8 FC<br>18:1   | 20.9 FC<br>18.4:1 | 18.2 FC<br>21.5:1 | 9.9 FC<br>127.8:1  |
| 10          | 205.3 FC<br>10.9:1 | 90.1 FC<br>30.2:1 | 62.5 FC<br>20.8:1 | 40.2 FC<br>45.2:1 | 37.8 FC<br>25.5:1 | 23.8 FC<br>75.4:1 | 23.1 FC<br>70.8:1 | 20.6 FC<br>78.3:1 | 10.1 FC<br>669.7:1 |

## FIXTURE: H17 @ 150W + H17-RAL

21,854 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 147.8 FC     | 66.6 FC | 44.1 FC | 28.4 FC | 25 FC   | 15.7 FC | 14.5 FC | 12.8 FC | 7.5 FC  |
|             | 3.4:1        | 3.5:1   | 2.7:1   | 2.7:1   | 1.8:1   | 2.4:1   | 1.8:1   | 1.5:1   | 2.7:1   |
| 45          | 153.8 FC     | 69.4 FC | 46 FC   | 30.1 FC | 26 FC   | 16.5 FC | 15.1 FC | 13.3 FC | 7.9 FC  |
|             | 3.6:1        | 3.8:1   | 2.7:1   | 2.5:1   | 1.8:1   | 2.3:1   | 1.6:1   | 1.3:1   | 3.2:1   |
| 40          | 159.9 FC     | 72.3 FC | 47.9 FC | 30.8 FC | 27 FC   | 17.2 FC | 15.6 FC | 13.7 FC | 8.5 FC  |
|             | 3.9:1        | 3.9:1   | 2.8:1   | 2.8:1   | 1.7:1   | 2.1:1   | 1.6:1   | 1.2:1   | 3.8:1   |
| 35          | 166.3 FC     | 75.3 FC | 50 FC   | 32.2 FC | 28.2 FC | 18.1 FC | 16.4 FC | 14.3 FC | 8.8 FC  |
|             | 3.9:1        | 4:1     | 2.5:1   | 2.7:1   | 1.4:1   | 1.9:1   | 1.3:1   | 1.8:1   | 7.3:1   |
| 30          | 172.5 FC     | 78.4 FC | 52.1 FC | 34.1 FC | 29.2 FC | 19.3 FC | 17.2 FC | 14.9 FC | 9.5 FC  |
|             | 4.4:1        | 4.2:1   | 2.6:1   | 2.4:1   | 1.2:1   | 1.7:1   | 2.4:1   | 3.4:1   | 13.6:1  |
| 25          | 179 FC       | 81.6 FC | 54.6 FC | 35.3 FC | 30.2 FC | 20 FC   | 18.2 FC | 15.6 FC | 9.5 FC  |
|             | 4.6:1        | 4.8:1   | 2.3:1   | 2.8:1   | 1.7:1   | 3.5:1   | 5.9:1   | 8.3:1   | 40.1:1  |
| 20          | 185.4 FC     | 85 FC   | 57.3 FC | 38.8 FC | 32 FC   | 21.2 FC | 19.7 FC | 16.8 FC | 9.6 FC  |
|             | 5.6:1        | 6.1:1   | 2:1     | 2.6:1   | 4.6:1   | 11.7:1  | 16.5:1  | 17.7:1  | 94.2:1  |
| 15          | 192.2 FC     | 87.7 FC | 61.8 FC | 38.7 FC | 34.7 FC | 21.9 FC | 21.5 FC | 18.5 FC | 9.7 FC  |
|             | 8.1:1        | 13.2:1  | 4.8:1   | 26.6:1  | 16.6:1  | 46.9:1  | 40.1:1  | 41.4:1  | 236.8:1 |
| 10          | 204.3 FC     | 87.6 FC | 62.4 FC | 39.4 FC | 39 FC   | 23 FC   | 23.5 FC | 21.3 FC | 9.7 FC  |
|             | 18.2:1       | 56.3:1  | 51.3:1  | 93.5:1  | 53.2:1  | 153.9:1 | 143.6:1 | 148.2:1 | 879.7:1 |

## FIXTURE: H17 @ 150W + H17-RPC

21,947 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 141.6 FC     | 63.8 FC | 42.3 FC | 27.2 FC | 24.2 FC | 15 FC   | 13.9 FC | 12.4 FC | 7.2 FC  |
|             | 3.2:1        | 3.2:1   | 2.6:1   | 2.6:1   | 1.8:1   | 2.4:1   | 1.7:1   | 1.5:1   | 2.6:1   |
| 45          | 147.9 FC     | 66.8 FC | 44.3 FC | 28.9 FC | 25.2 FC | 15.8 FC | 14.6 FC | 13 FC   | 7.6 FC  |
|             | 3.4:1        | 3.5:1   | 2.5:1   | 2.4:1   | 1.8:1   | 2.2:1   | 1.6:1   | 1.4:1   | 3:1     |
| 40          | 154.2 FC     | 69.8 FC | 46.3 FC | 29.7 FC | 26.2 FC | 16.6 FC | 15.1 FC | 13.5 FC | 8.2 FC  |
|             | 3.7:1        | 3.6:1   | 2.7:1   | 2.7:1   | 1.7:1   | 2:1     | 1.6:1   | 1.2:1   | 3.5:1   |
| 35          | 161 FC       | 72.9 FC | 48.4 FC | 31.1 FC | 27.5 FC | 17.5 FC | 16 FC   | 14 FC   | 8.5 FC  |
|             | 3.6:1        | 3.7:1   | 2.5:1   | 2.6:1   | 1.5:1   | 1.9:1   | 1.3:1   | 1.7:1   | 6.2:1   |
| 30          | 167.7 FC     | 76.2 FC | 50.6 FC | 33.1 FC | 28.5 FC | 18.6 FC | 16.7 FC | 14.6 FC | 9.1 FC  |
|             | 4.1:1        | 3.9:1   | 2.5:1   | 2.4:1   | 1.2:1   | 1.7:1   | 2.3:1   | 3:1     | 10.4:1  |
| 25          | 174.8 FC     | 79.6 FC | 53.1 FC | 34.3 FC | 29.6 FC | 19.4 FC | 17.7 FC | 15.3 FC | 9.2 FC  |
|             | 4.3:1        | 4.4:1   | 2.3:1   | 2.8:1   | 1.7:1   | 3.4:1   | 4.6:1   | 5.7:1   | 21.3:1  |
| 20          | 181.8 FC     | 83.2 FC | 56 FC   | 37.8 FC | 31.4 FC | 20.6 FC | 19.2 FC | 16.5 FC | 9.4 FC  |
|             | 5.2:1        | 5.5:1   | 2:1     | 2.5:1   | 3.7:1   | 8:1     | 10.1:1  | 11.6:1  | 53.8:1  |
| 15          | 188.8 FC     | 86.2 FC | 60.5 FC | 37.8 FC | 33.9 FC | 21.5 FC | 21 FC   | 18.3 FC | 9.7 FC  |
|             | 6.9:1        | 10:1    | 4.4:1   | 15.9:1  | 10.7:1  | 26.8:1  | 24.4:1  | 26.8:1  | 144.3:1 |
| 10          | 200.9 FC     | 86.9 FC | 61.3 FC | 39.2 FC | 38.6 FC | 23 FC   | 23.2 FC | 21.1 FC | 9.7 FC  |
|             | 12.6:1       | 37.5:1  | 28.1:1  | 58.1:1  | 37.1:1  | 93:1    | 92.4:1  | 100.6:1 | 804.7:1 |

## FIXTURE: H17 @ 150W + H17-RPC + H17-RDL

20,722 Lumens

| Height (ft) | Spacing (ft)      |                  |                  |                   |                   |                   |                   |                   |                   |
|-------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|             | 10x10             | 15x15            | 20x20            | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50             |
| 50          | 123.9 FC<br>2.8:1 | 56.1 FC<br>2.9:1 | 37.3 FC<br>2.4:1 | 24 FC<br>2.4:1    | 21.5 FC<br>1.8:1  | 13.3 FC<br>2.2:1  | 12.4 FC<br>1.7:1  | 11.1 FC<br>1.6:1  | 6.3 FC<br>2.4:1   |
| 45          | 130.4 FC<br>3:1   | 59.1 FC<br>3:1   | 39.3 FC<br>2.4:1 | 25.6 FC<br>2.3:1  | 22.6 FC<br>1.8:1  | 14 FC<br>2.1:1    | 13 FC<br>1.6:1    | 11.7 FC<br>1.4:1  | 6.7 FC<br>2.7:1   |
| 40          | 136.8 FC<br>3.3:1 | 62.1 FC<br>3.2:1 | 41.3 FC<br>2.5:1 | 26.5 FC<br>2.5:1  | 23.6 FC<br>1.8:1  | 14.8 FC<br>2:1    | 13.5 FC<br>1.6:1  | 12.2 FC<br>1.3:1  | 7.2 FC<br>2.8:1   |
| 35          | 143.7 FC<br>3.3:1 | 65.3 FC<br>3.3:1 | 43.4 FC<br>2.4:1 | 27.9 FC<br>2.5:1  | 24.8 FC<br>1.6:1  | 15.6 FC<br>1.9:1  | 14.4 FC<br>1.3:1  | 12.7 FC<br>1.4:1  | 7.5 FC<br>4.3:1   |
| 30          | 150.8 FC<br>3.7:1 | 68.7 FC<br>3.5:1 | 45.7 FC<br>2.4:1 | 29.9 FC<br>2.3:1  | 25.9 FC<br>1.3:1  | 16.7 FC<br>1.7:1  | 15.1 FC<br>1.7:1  | 13.3 FC<br>2.1:1  | 8.1 FC<br>6.2:1   |
| 25          | 158.5 FC<br>3.9:1 | 72.2 FC<br>4:1   | 48.2 FC<br>2.3:1 | 31.1 FC<br>2.7:1  | 27.1 FC<br>1.3:1  | 17.6 FC<br>2.8:1  | 16.1 FC<br>2.8:1  | 14 FC<br>3.5:1    | 8.3 FC<br>11.2:1  |
| 20          | 166.1 FC<br>4.6:1 | 76 FC<br>4.7:1   | 51 FC<br>2.1:1   | 34.3 FC<br>2.1:1  | 28.8 FC<br>2.4:1  | 18.6 FC<br>5:1    | 17.3 FC<br>5.6:1  | 15 FC<br>7.2:1    | 8.7 FC<br>26.3:1  |
| 15          | 174 FC<br>5.8:1   | 79.5 FC<br>7.3:1 | 55.3 FC<br>3.1:1 | 34.7 FC<br>9.2:1  | 30.9 FC<br>6.4:1  | 19.6 FC<br>14.4:1 | 18.9 FC<br>14.9:1 | 16.5 FC<br>18.2:1 | 9 FC<br>78.4:1    |
| 10          | 187.4 FC<br>8.6:1 | 81 FC<br>24:1    | 57 FC<br>16:1    | 36.5 FC<br>35.1:1 | 35.2 FC<br>24.8:1 | 21.2 FC<br>57.7:1 | 21.2 FC<br>61:1   | 19.1 FC<br>71:1   | 9.1 FC<br>451.5:1 |

## FIXTURE: H17XL @ 150W

24,336 Lumens

| Height (ft) | Spacing (ft)      |                    |                   |                   |                   |                   |                   |                   |                    |
|-------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10             | 15x15              | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 154.4 FC<br>3.2:1 | 69.7 FC<br>3.1:1   | 46.4 FC<br>2.5:1  | 29.8 FC<br>2.5:1  | 26.7 FC<br>1.8:1  | 16.5 FC<br>2.3:1  | 15.4 FC<br>1.7:1  | 13.8 FC<br>1.5:1  | 7.9 FC<br>2.5:1    |
| 45          | 162.1 FC<br>3.3:1 | 73.3 FC<br>3.1:1   | 48.7 FC<br>2.5:1  | 31.8 FC<br>2.3:1  | 27.9 FC<br>1.8:1  | 17.4 FC<br>2.2:1  | 16.2 FC<br>1.6:1  | 14.5 FC<br>1.4:1  | 8.3 FC<br>2.7:1    |
| 40          | 169.9 FC<br>3.5:1 | 76.9 FC<br>3.5:1   | 51 FC<br>2.8:1    | 32.9 FC<br>2.5:1  | 29.2 FC<br>1.7:1  | 18.3 FC<br>2.1:1  | 16.8 FC<br>1.5:1  | 15 FC<br>1.3:1    | 9 FC<br>2.8:1      |
| 35          | 178.2 FC<br>3.7:1 | 80.8 FC<br>3.6:1   | 53.7 FC<br>2.6:1  | 34.5 FC<br>2.5:1  | 30.7 FC<br>1.5:1  | 19.2 FC<br>2:1    | 17.8 FC<br>1.2:1  | 15.7 FC<br>1.5:1  | 9.3 FC<br>4.7:1    |
| 30          | 186.7 FC<br>4:1   | 84.7 FC<br>3.9:1   | 56.3 FC<br>2.7:1  | 36.9 FC<br>2.2:1  | 32 FC<br>1.3:1    | 20.6 FC<br>1.9:1  | 18.5 FC<br>1.7:1  | 16.3 FC<br>2.2:1  | 10 FC<br>6.8:1     |
| 25          | 195.5 FC<br>4.3:1 | 89 FC<br>4.2:1     | 59.3 FC<br>2.5:1  | 38.4 FC<br>2.4:1  | 33.5 FC<br>1.4:1  | 21.6 FC<br>2.5:1  | 19.7 FC<br>3:1    | 17.2 FC<br>3.8:1  | 10.2 FC<br>15.9:1  |
| 20          | 204.5 FC<br>5:1   | 93.4 FC<br>5.4:1   | 62.7 FC<br>2.3:1  | 42.2 FC<br>2:1    | 35.4 FC<br>2.6:1  | 23 FC<br>4.9:1    | 21.3 FC<br>6.2:1  | 18.5 FC<br>8.1:1  | 10.7 FC<br>34.8:1  |
| 15          | 214 FC<br>6.2:1   | 97.6 FC<br>7.6:1   | 67.6 FC<br>3.5:1  | 42.8 FC<br>8.1:1  | 37.8 FC<br>6.9:1  | 24.2 FC<br>13.6:1 | 23.2 FC<br>16.4:1 | 20.2 FC<br>19.8:1 | 11 FC<br>101.8:1   |
| 10          | 230.8 FC<br>8.9:1 | 101.2 FC<br>26.8:1 | 69.2 FC<br>13.9:1 | 44.8 FC<br>33.5:1 | 41.8 FC<br>25.1:1 | 26.4 FC<br>57.5:1 | 25.9 FC<br>61.1:1 | 22.8 FC<br>67.8:1 | 11.3 FC<br>423.6:1 |

## FIXTURE: H17XL @ 150W + H17XL-RAL

25,930 Lumens

| Height (ft) | Spacing (ft) |          |         |         |         |         |         |         |         |
|-------------|--------------|----------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15    | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 170.1 FC     | 76.6 FC  | 50.8 FC | 32.7 FC | 28.8 FC | 18.1 FC | 16.7 FC | 14.8 FC | 8.6 FC  |
|             | 3.4:1        | 3.4:1    | 2.7:1   | 2.7:1   | 1.8:1   | 2.4:1   | 1.7:1   | 1.5:1   | 2.7:1   |
| 45          | 177.2 FC     | 79.9 FC  | 53 FC   | 34.6 FC | 30 FC   | 19 FC   | 17.4 FC | 15.4 FC | 9.1 FC  |
|             | 3.6:1        | 3.7:1    | 2.6:1   | 2.5:1   | 1.8:1   | 2.3:1   | 1.6:1   | 1.3:1   | 3.1:1   |
| 40          | 184.3 FC     | 83.4 FC  | 55.3 FC | 35.5 FC | 31.2 FC | 19.9 FC | 18 FC   | 15.9 FC | 9.8 FC  |
|             | 3.9:1        | 3.8:1    | 2.8:1   | 2.8:1   | 1.7:1   | 2.1:1   | 1.5:1   | 1.2:1   | 3.5:1   |
| 35          | 191.9 FC     | 86.9 FC  | 57.7 FC | 37.2 FC | 32.6 FC | 20.8 FC | 19 FC   | 16.6 FC | 10.1 FC |
|             | 3.9:1        | 4:1      | 2.6:1   | 2.6:1   | 1.4:1   | 1.9:1   | 1.3:1   | 1.7:1   | 6.7:1   |
| 30          | 199.2 FC     | 90.5 FC  | 60.1 FC | 39.4 FC | 33.8 FC | 22.2 FC | 19.8 FC | 17.2 FC | 10.9 FC |
|             | 4.4:1        | 4.2:1    | 2.6:1   | 2.4:1   | 1.2:1   | 1.8:1   | 2.3:1   | 3.2:1   | 11.5:1  |
| 25          | 206.9 FC     | 94.3 FC  | 62.9 FC | 40.7 FC | 34.9 FC | 23.1 FC | 21 FC   | 18 FC   | 10.9 FC |
|             | 4.6:1        | 4.7:1    | 2.3:1   | 2.8:1   | 1.7:1   | 3.4:1   | 5.3:1   | 7.5:1   | 35.6:1  |
| 20          | 214.3 FC     | 98.2 FC  | 66.1 FC | 44.8 FC | 36.9 FC | 24.4 FC | 22.7 FC | 19.4 FC | 11.1 FC |
|             | 5.6:1        | 5.9:1    | 2.1:1   | 2.5:1   | 4.2:1   | 10.4:1  | 15:1    | 16.7:1  | 89.8:1  |
| 15          | 222.4 FC     | 101.3 FC | 71.3 FC | 44.8 FC | 40.1 FC | 25.4 FC | 24.8 FC | 21.4 FC | 11.3 FC |
|             | 7.8:1        | 12.2:1   | 4.6:1   | 22.6:1  | 15.6:1  | 41.1:1  | 36.8:1  | 37.9:1  | 217.2:1 |
| 10          | 236.7 FC     | 102.3 FC | 72.1 FC | 45.7 FC | 44.9 FC | 26.7 FC | 27.1 FC | 24.5 FC | 11.3 FC |
|             | 16.1:1       | 54.9:1   | 44.3:1  | 87:1    | 48.9:1  | 143.1:1 | 126.4:1 | 135.1:1 | 1009:1  |

## FIXTURE: H17XL @ 150W + H17XL-RPC

25,241 Lumens

| Height (ft) | Spacing (ft) |         |         |         |         |         |         |         |         |
|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15   | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 161.4 FC     | 72.8 FC | 48.3 FC | 31 FC   | 27.6 FC | 17.2 FC | 15.9 FC | 14.2 FC | 8.2 FC  |
|             | 3.1:1        | 3.2:1   | 2.6:1   | 2.6:1   | 1.8:1   | 2.3:1   | 1.7:1   | 1.5:1   | 2.6:1   |
| 45          | 168.7 FC     | 76.2 FC | 50.6 FC | 33 FC   | 28.8 FC | 18.1 FC | 16.7 FC | 14.9 FC | 8.7 FC  |
|             | 3.3:1        | 3.4:1   | 2.5:1   | 2.4:1   | 1.7:1   | 2.2:1   | 1.5:1   | 1.3:1   | 2.9:1   |
| 40          | 176.1 FC     | 79.7 FC | 52.9 FC | 34 FC   | 30 FC   | 19 FC   | 17.3 FC | 15.5 FC | 9.3 FC  |
|             | 3.6:1        | 3.6:1   | 2.6:1   | 2.7:1   | 1.7:1   | 2:1     | 1.5:1   | 1.2:1   | 3.3:1   |
| 35          | 183.9 FC     | 83.4 FC | 55.4 FC | 35.6 FC | 31.5 FC | 20 FC   | 18.3 FC | 16.1 FC | 9.6 FC  |
|             | 3.6:1        | 3.7:1   | 2.4:1   | 2.6:1   | 1.5:1   | 1.9:1   | 1.3:1   | 1.7:1   | 6:1     |
| 30          | 191.8 FC     | 87.2 FC | 58 FC   | 37.9 FC | 32.6 FC | 21.3 FC | 19.2 FC | 16.7 FC | 10.4 FC |
|             | 4:1          | 3.9:1   | 2.5:1   | 2.4:1   | 1.2:1   | 1.8:1   | 2.2:1   | 2.9:1   | 9.5:1   |
| 25          | 200.1 FC     | 91.1 FC | 60.8 FC | 39.3 FC | 34 FC   | 22.2 FC | 20.3 FC | 17.6 FC | 10.5 FC |
|             | 4.2:1        | 4.5:1   | 2.3:1   | 2.8:1   | 1.6:1   | 3.4:1   | 4.3:1   | 5.3:1   | 19.2:1  |
| 20          | 208.4 FC     | 95.3 FC | 64.1 FC | 43.3 FC | 36 FC   | 23.5 FC | 21.9 FC | 18.9 FC | 10.8 FC |
|             | 5.1:1        | 5.2:1   | 2.1:1   | 2.4:1   | 3.6:1   | 7.4:1   | 9.1:1   | 10.9:1  | 44:1    |
| 15          | 216.6 FC     | 99 FC   | 69.2 FC | 43.3 FC | 38.9 FC | 24.6 FC | 24 FC   | 20.9 FC | 11.1 FC |
|             | 6.9:1        | 9.9:1   | 4.2:1   | 15.1:1  | 9.9:1   | 24.7:1  | 23.7:1  | 27:1    | 139.1:1 |
| 10          | 233.5 FC     | 99.6 FC | 70.5 FC | 45.4 FC | 43.8 FC | 26.2 FC | 26.5 FC | 24 FC   | 11.2 FC |
|             | 12.2:1       | 36.3:1  | 26.2:1  | 55.6:1  | 36.3:1  | 91.1:1  | 89.5:1  | 98.7:1  | 692:1   |

# FIXTURE: H17XL @ 150W + H17XL-RPC + H17-RDL

23,584 Lumens

| Height (ft) | Spacing (ft)      |                   |                   |                   |                   |                   |                   |                   |                    |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10             | 15x15             | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 139.6 FC<br>2.8:1 | 63.2 FC<br>2.8:1  | 42.1 FC<br>2.4:1  | 27 FC<br>2.4:1    | 24.3 FC<br>1.8:1  | 15 FC<br>2.2:1    | 14 FC<br>1.7:1    | 12.6 FC<br>1.6:1  | 7.1 FC<br>2.5:1    |
| 45          | 147.1 FC<br>2.9:1 | 66.7 FC<br>3.1:1  | 44.4 FC<br>2.4:1  | 28.9 FC<br>2.2:1  | 25.5 FC<br>1.8:1  | 15.9 FC<br>2.1:1  | 14.7 FC<br>1.5:1  | 13.2 FC<br>1.4:1  | 7.6 FC<br>2.8:1    |
| 40          | 154.4 FC<br>3:1   | 70.2 FC<br>3.1:1  | 46.7 FC<br>2.4:1  | 30 FC<br>2.5:1    | 26.7 FC<br>1.7:1  | 16.7 FC<br>2:1    | 15.3 FC<br>1.5:1  | 13.8 FC<br>1.3:1  | 8.2 FC<br>3.2:1    |
| 35          | 162.3 FC<br>3.4:1 | 73.8 FC<br>3.3:1  | 49.2 FC<br>2.3:1  | 31.6 FC<br>2.4:1  | 28.1 FC<br>1.5:1  | 17.7 FC<br>1.9:1  | 16.3 FC<br>1.2:1  | 14.4 FC<br>1.5:1  | 8.5 FC<br>4.9:1    |
| 30          | 170.6 FC<br>3.6:1 | 77.7 FC<br>3.5:1  | 51.7 FC<br>2.4:1  | 33.8 FC<br>2.3:1  | 29.4 FC<br>1.3:1  | 18.9 FC<br>1.9:1  | 17.1 FC<br>1.7:1  | 15.1 FC<br>2.1:1  | 9.2 FC<br>6.6:1    |
| 25          | 179.3 FC<br>3.8:1 | 81.8 FC<br>4:1    | 54.6 FC<br>2.3:1  | 35.2 FC<br>2.7:1  | 30.8 FC<br>1.4:1  | 19.9 FC<br>2.9:1  | 18.2 FC<br>2.8:1  | 15.9 FC<br>3.5:1  | 9.3 FC<br>11.3:1   |
| 20          | 188.2 FC<br>4.3:1 | 86 FC<br>4.5:1    | 57.8 FC<br>2.1:1  | 38.8 FC<br>2.3:1  | 32.7 FC<br>2.5:1  | 21.1 FC<br>5.6:1  | 19.6 FC<br>5.3:1  | 17.1 FC<br>6.9:1  | 9.8 FC<br>25.8:1   |
| 15          | 197.6 FC<br>5.8:1 | 89.9 FC<br>7.1:1  | 62.7 FC<br>3.1:1  | 39.3 FC<br>9:1    | 35.2 FC<br>6.2:1  | 22.2 FC<br>13.8:1 | 21.4 FC<br>14.3:1 | 18.7 FC<br>18.2:1 | 10.2 FC<br>89.5:1  |
| 10          | 214.6 FC<br>9.1:1 | 91.7 FC<br>23.1:1 | 64.9 FC<br>16.5:1 | 41.6 FC<br>35.5:1 | 39.6 FC<br>23.5:1 | 24.1 FC<br>60:1   | 23.9 FC<br>61.9:1 | 21.5 FC<br>69.9:1 | 10.4 FC<br>424.6:1 |

# FIXTURE: H17XL @ 200W

30,216 Lumens

| Height (ft) | Spacing (ft)      |                    |                   |                   |                   |                   |                   |                   |                    |
|-------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10             | 15x15              | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 194.9 FC<br>3.2:1 | 88 FC<br>3.1:1     | 58.5 FC<br>2.5:1  | 37.6 FC<br>2.5:1  | 33.7 FC<br>1.8:1  | 20.8 FC<br>2.3:1  | 19.4 FC<br>1.7:1  | 17.4 FC<br>1.5:1  | 9.9 FC<br>2.5:1    |
| 45          | 204.6 FC<br>3.3:1 | 92.6 FC<br>3.1:1   | 61.5 FC<br>2.5:1  | 40.1 FC<br>2.3:1  | 35.3 FC<br>1.8:1  | 22 FC<br>2.2:1    | 20.4 FC<br>1.6:1  | 18.3 FC<br>1.4:1  | 10.5 FC<br>2.7:1   |
| 40          | 214.5 FC<br>3.5:1 | 97.1 FC<br>3.4:1   | 64.5 FC<br>2.8:1  | 41.5 FC<br>2.5:1  | 36.8 FC<br>1.7:1  | 23.1 FC<br>2.1:1  | 21.2 FC<br>1.5:1  | 19 FC<br>1.3:1    | 11.3 FC<br>2.8:1   |
| 35          | 224.9 FC<br>3.7:1 | 102 FC<br>3.6:1    | 67.8 FC<br>2.6:1  | 43.6 FC<br>2.5:1  | 38.7 FC<br>1.5:1  | 24.3 FC<br>2:1    | 22.5 FC<br>1.2:1  | 19.8 FC<br>1.5:1  | 11.7 FC<br>4.6:1   |
| 30          | 235.6 FC<br>4:1   | 107 FC<br>3.9:1    | 71.1 FC<br>2.7:1  | 46.6 FC<br>2.2:1  | 40.4 FC<br>1.3:1  | 26 FC<br>1.9:1    | 23.4 FC<br>1.7:1  | 20.6 FC<br>2.2:1  | 12.7 FC<br>6.8:1   |
| 25          | 246.8 FC<br>4.3:1 | 112.4 FC<br>4.2:1  | 74.9 FC<br>2.5:1  | 48.5 FC<br>2.4:1  | 42.3 FC<br>1.4:1  | 27.3 FC<br>2.4:1  | 24.9 FC<br>2.9:1  | 21.8 FC<br>3.8:1  | 12.9 FC<br>15.3:1  |
| 20          | 258.1 FC<br>5:1   | 117.9 FC<br>5.4:1  | 79.1 FC<br>2.3:1  | 53.3 FC<br>2:1    | 44.7 FC<br>2.6:1  | 29 FC<br>4.8:1    | 26.8 FC<br>6.2:1  | 23.3 FC<br>8:1    | 13.5 FC<br>32.8:1  |
| 15          | 270.1 FC<br>6.2:1 | 123.3 FC<br>7.6:1  | 85.4 FC<br>3.5:1  | 54.1 FC<br>8.1:1  | 47.7 FC<br>6.8:1  | 30.6 FC<br>13.5:1 | 29.3 FC<br>16.4:1 | 25.4 FC<br>19.7:1 | 13.9 FC<br>93.2:1  |
| 10          | 291.4 FC<br>8.9:1 | 127.9 FC<br>26.7:1 | 87.4 FC<br>13.7:1 | 56.6 FC<br>33.4:1 | 52.8 FC<br>24.9:1 | 33.3 FC<br>58.5:1 | 32.7 FC<br>62:1   | 28.8 FC<br>69.2:1 | 14.3 FC<br>444.3:1 |

## FIXTURE: H17XL @ 200W + H17XL-RAL

31,090 Lumens

| Height (ft) | Spacing (ft)      |                    |                   |                   |                   |                    |                    |                   |                    |
|-------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
|             | 10x10             | 15x15              | 20x20             | 25x25             | 30x30             | 35x35              | 40x40              | 45x45             | 50x50              |
| 50          | 208.1 FC<br>3.4:1 | 93.7 FC<br>3.4:1   | 62.1 FC<br>2.7:1  | 39.9 FC<br>2.7:1  | 35.3 FC<br>1.8:1  | 22.1 FC<br>2.4:1   | 20.4 FC<br>1.7:1   | 18.1 FC<br>1.5:1  | 10.6 FC<br>2.7:1   |
| 45          | 216.8 FC<br>3.6:1 | 97.8 FC<br>3.7:1   | 64.9 FC<br>2.6:1  | 42.4 FC<br>2.5:1  | 36.7 FC<br>1.8:1  | 23.2 FC<br>2.3:1   | 21.3 FC<br>1.6:1   | 18.8 FC<br>1.3:1  | 11.1 FC<br>3:1     |
| 40          | 225.5 FC<br>3.9:1 | 102 FC<br>3.8:1    | 67.6 FC<br>2.8:1  | 43.5 FC<br>2.8:1  | 38.1 FC<br>1.7:1  | 24.3 FC<br>2.1:1   | 22 FC<br>1.6:1     | 19.5 FC<br>1.2:1  | 12 FC<br>3.5:1     |
| 35          | 234.8 FC<br>3.9:1 | 106.3 FC<br>4:1    | 70.6 FC<br>2.6:1  | 45.5 FC<br>2.6:1  | 39.9 FC<br>1.4:1  | 25.5 FC<br>1.9:1   | 23.2 FC<br>1.3:1   | 20.3 FC<br>1.7:1  | 12.4 FC<br>6.5:1   |
| 30          | 243.8 FC<br>4.3:1 | 110.7 FC<br>4.2:1  | 73.6 FC<br>2.6:1  | 48.2 FC<br>2.4:1  | 41.3 FC<br>1.2:1  | 27.1 FC<br>1.8:1   | 24.2 FC<br>2.2:1   | 21 FC<br>3.1:1    | 13.3 FC<br>11.5:1  |
| 25          | 253.2 FC<br>4.6:1 | 115.4 FC<br>4.7:1  | 77 FC<br>2.4:1    | 49.8 FC<br>2.8:1  | 42.8 FC<br>1.7:1  | 28.3 FC<br>3.3:1   | 25.7 FC<br>5.3:1   | 22.1 FC<br>7.5:1  | 13.4 FC<br>35.5:1  |
| 20          | 262.3 FC<br>5.6:1 | 120.2 FC<br>5.8:1  | 80.9 FC<br>2:1    | 54.8 FC<br>2.4:1  | 45.2 FC<br>4.2:1  | 29.9 FC<br>10.1:1  | 27.8 FC<br>14.9:1  | 23.7 FC<br>16.4:1 | 13.6 FC<br>82:1    |
| 15          | 272.4 FC<br>7.7:1 | 124 FC<br>12.1:1   | 87.3 FC<br>4.6:1  | 54.9 FC<br>22.4:1 | 49.1 FC<br>15.5:1 | 31.1 FC<br>41.9:1  | 30.4 FC<br>36.3:1  | 26.2 FC<br>38.7:1 | 13.8 FC<br>220:1   |
| 10          | 289.8 FC<br>16:1  | 125.3 FC<br>54.2:1 | 88.2 FC<br>44.3:1 | 56 FC<br>87.2:1   | 54.9 FC<br>48.5:1 | 32.8 FC<br>141.7:1 | 33.2 FC<br>126.5:1 | 30 FC<br>132.6:1  | 13.8 FC<br>919.5:1 |

## FIXTURE: H17XL @ 200W + H17XL-RPC

30,953 Lumens

| Height (ft) | Spacing (ft)       |                    |                   |                   |                  |                   |                   |                   |                    |
|-------------|--------------------|--------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10              | 15x15              | 20x20             | 25x25             | 30x30            | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 197.5 FC<br>3.1:1  | 89.1 FC<br>3.2:1   | 59.1 FC<br>2.6:1  | 38 FC<br>2.6:1    | 33.8 FC<br>1.8:1 | 21 FC<br>2.3:1    | 19.5 FC<br>1.7:1  | 17.4 FC<br>1.5:1  | 10.1 FC<br>2.6:1   |
| 45          | 206.5 FC<br>3.3:1  | 93.3 FC<br>3.4:1   | 61.9 FC<br>2.5:1  | 40.4 FC<br>2.4:1  | 35.3 FC<br>1.8:1 | 22.1 FC<br>2.2:1  | 20.4 FC<br>1.6:1  | 18.2 FC<br>1.3:1  | 10.6 FC<br>2.8:1   |
| 40          | 215.6 FC<br>3.6:1  | 97.7 FC<br>3.6:1   | 64.8 FC<br>2.6:1  | 41.6 FC<br>2.7:1  | 36.8 FC<br>1.7:1 | 23.2 FC<br>2:1    | 21.2 FC<br>1.5:1  | 19 FC<br>1.2:1    | 11.4 FC<br>3.3:1   |
| 35          | 225.3 FC<br>3.6:1  | 102.2 FC<br>3.7:1  | 67.9 FC<br>2.4:1  | 43.7 FC<br>2.6:1  | 38.5 FC<br>1.5:1 | 24.5 FC<br>1.9:1  | 22.4 FC<br>1.3:1  | 19.7 FC<br>1.6:1  | 11.8 FC<br>5.9:1   |
| 30          | 235 FC<br>4:1      | 106.8 FC<br>3.8:1  | 71 FC<br>2.5:1    | 46.4 FC<br>2.4:1  | 40 FC<br>1.2:1   | 26.1 FC<br>1.8:1  | 23.5 FC<br>2.1:1  | 20.5 FC<br>2.8:1  | 12.7 FC<br>9:1     |
| 25          | 245.3 FC<br>4.2:1  | 111.6 FC<br>4.5:1  | 74.5 FC<br>2.3:1  | 48.2 FC<br>2.8:1  | 41.7 FC<br>1.6:1 | 27.2 FC<br>3.3:1  | 24.8 FC<br>4.2:1  | 21.5 FC<br>5.2:1  | 12.8 FC<br>18.4:1  |
| 20          | 255.3 FC<br>5.1:1  | 116.9 FC<br>5.2:1  | 78.5 FC<br>2.1:1  | 53 FC<br>2.4:1    | 44.1 FC<br>3.5:1 | 28.8 FC<br>7.3:1  | 26.9 FC<br>8.9:1  | 23.2 FC<br>10.7:1 | 13.3 FC<br>45.2:1  |
| 15          | 265.6 FC<br>6.8:1  | 121.3 FC<br>9.7:1  | 84.8 FC<br>4.1:1  | 53.1 FC<br>14.9:1 | 47.7 FC<br>9.7:1 | 30.2 FC<br>23.8:1 | 29.4 FC<br>23.2:1 | 25.6 FC<br>26.2:1 | 13.6 FC<br>131.1:1 |
| 10          | 286.1 FC<br>12.1:1 | 122.2 FC<br>35.7:1 | 86.5 FC<br>25.9:1 | 55.6 FC<br>54.9:1 | 53.7 FC<br>36:1  | 32.2 FC<br>90:1   | 32.5 FC<br>90.6:1 | 29.4 FC<br>95.3:1 | 13.7 FC<br>671.2:1 |

# FIXTURE: H17XL @ 200W + H17XL-RPC + H17-RDL

29,258 Lumens

| Height (ft) | Spacing (ft)      |                    |                   |                   |                   |                   |                   |                   |                   |
|-------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|             | 10x10             | 15x15              | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50             |
| 50          | 173 FC<br>2.8:1   | 78.3 FC<br>2.8:1   | 52.2 FC<br>2.4:1  | 33.5 FC<br>2.4:1  | 30.1 FC<br>1.8:1  | 18.6 FC<br>2.1:1  | 17.4 FC<br>1.7:1  | 15.6 FC<br>1.6:1  | 8.8 FC<br>2.5:1   |
| 45          | 182.2 FC<br>2.9:1 | 82.6 FC<br>3.1:1   | 55 FC<br>2.4:1    | 35.9 FC<br>2.2:1  | 31.6 FC<br>1.8:1  | 19.7 FC<br>2.1:1  | 18.3 FC<br>1.5:1  | 16.4 FC<br>1.4:1  | 9.4 FC<br>2.8:1   |
| 40          | 191.4 FC<br>3:1   | 87 FC<br>3.1:1     | 57.8 FC<br>2.5:1  | 37.2 FC<br>2.5:1  | 33 FC<br>1.7:1    | 20.7 FC<br>2:1    | 19 FC<br>1.6:1    | 17.1 FC<br>1.3:1  | 10.1 FC<br>3.2:1  |
| 35          | 201.2 FC<br>3.4:1 | 91.5 FC<br>3.3:1   | 60.9 FC<br>2.3:1  | 39.2 FC<br>2.4:1  | 34.9 FC<br>1.5:1  | 21.9 FC<br>1.9:1  | 20.2 FC<br>1.2:1  | 17.9 FC<br>1.5:1  | 10.5 FC<br>4.7:1  |
| 30          | 211.5 FC<br>3.6:1 | 96.4 FC<br>3.5:1   | 64.1 FC<br>2.4:1  | 41.9 FC<br>2.3:1  | 36.4 FC<br>1.3:1  | 23.5 FC<br>1.9:1  | 21.2 FC<br>1.7:1  | 18.7 FC<br>2.1:1  | 11.3 FC<br>6.5:1  |
| 25          | 222.2 FC<br>3.7:1 | 101.4 FC<br>4:1    | 67.6 FC<br>2.3:1  | 43.7 FC<br>2.7:1  | 38.2 FC<br>1.4:1  | 24.6 FC<br>2.9:1  | 22.6 FC<br>2.8:1  | 19.7 FC<br>3.4:1  | 11.6 FC<br>11:1   |
| 20          | 233.5 FC<br>4.3:1 | 106.7 FC<br>4.5:1  | 71.7 FC<br>2.1:1  | 48.1 FC<br>2.3:1  | 40.5 FC<br>2.5:1  | 26.1 FC<br>5.5:1  | 24.3 FC<br>5.2:1  | 21.2 FC<br>6.8:1  | 12.1 FC<br>24.8:1 |
| 15          | 244.9 FC<br>5.7:1 | 111.5 FC<br>7.1:1  | 77.7 FC<br>3.1:1  | 48.8 FC<br>9.1:1  | 43.6 FC<br>6.1:1  | 27.6 FC<br>13.6:1 | 26.5 FC<br>14.1:1 | 23.3 FC<br>18.3:1 | 12.6 FC<br>88.2:1 |
| 10          | 265.4 FC<br>8.9:1 | 113.7 FC<br>22.8:1 | 80.2 FC<br>16.1:1 | 51.7 FC<br>36.2:1 | 49.2 FC<br>23.5:1 | 29.8 FC<br>58.7:1 | 29.7 FC<br>62.3:1 | 26.6 FC<br>68.4:1 | 13 FC<br>438.3:1  |

# FIXTURE: H17XL @ 240W

34,973 Lumens

| Height (ft) | Spacing (ft)      |                    |                  |                  |                   |                   |                   |                   |                    |
|-------------|-------------------|--------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10             | 15x15              | 20x20            | 25x25            | 30x30             | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 227.6 FC<br>3.2:1 | 102.7 FC<br>3.1:1  | 68.3 FC<br>2.5:1 | 43.9 FC<br>2.5:1 | 39.3 FC<br>1.8:1  | 24.3 FC<br>2.4:1  | 22.7 FC<br>1.7:1  | 20.3 FC<br>1.5:1  | 11.6 FC<br>2.5:1   |
| 45          | 239 FC<br>3.3:1   | 108.1 FC<br>3.1:1  | 71.8 FC<br>2.5:1 | 46.9 FC<br>2.3:1 | 41.2 FC<br>1.8:1  | 25.7 FC<br>2.2:1  | 23.8 FC<br>1.6:1  | 21.4 FC<br>1.4:1  | 12.2 FC<br>2.7:1   |
| 40          | 250.6 FC<br>3.5:1 | 113.4 FC<br>3.4:1  | 75.3 FC<br>2.8:1 | 48.5 FC<br>2.5:1 | 43 FC<br>1.7:1    | 27 FC<br>2.1:1    | 24.7 FC<br>1.5:1  | 22.2 FC<br>1.3:1  | 13.2 FC<br>2.8:1   |
| 35          | 262.7 FC<br>3.7:1 | 119.2 FC<br>3.6:1  | 79.2 FC<br>2.6:1 | 50.9 FC<br>2.5:1 | 45.2 FC<br>1.5:1  | 28.4 FC<br>2:1    | 26.3 FC<br>1.2:1  | 23.1 FC<br>1.5:1  | 13.7 FC<br>4.7:1   |
| 30          | 275.3 FC<br>4:1   | 125 FC<br>3.9:1    | 83 FC<br>2.7:1   | 54.4 FC<br>2.2:1 | 47.2 FC<br>1.3:1  | 30.4 FC<br>1.9:1  | 27.3 FC<br>1.7:1  | 24.1 FC<br>2.2:1  | 14.8 FC<br>6.7:1   |
| 25          | 288.4 FC<br>4.3:1 | 131.4 FC<br>4.1:1  | 87.5 FC<br>2.5:1 | 56.6 FC<br>2.3:1 | 49.4 FC<br>1.4:1  | 31.9 FC<br>2.4:1  | 29.1 FC<br>2.9:1  | 25.4 FC<br>3.8:1  | 15.1 FC<br>15.6:1  |
| 20          | 301.6 FC<br>5:1   | 137.8 FC<br>5.4:1  | 92.5 FC<br>2.3:1 | 62.2 FC<br>2:1   | 52.2 FC<br>2.5:1  | 33.9 FC<br>4.8:1  | 31.4 FC<br>6.1:1  | 27.2 FC<br>8:1    | 15.7 FC<br>34.1:1  |
| 15          | 315.7 FC<br>6.2:1 | 144.1 FC<br>7.5:1  | 99.7 FC<br>3.4:1 | 63.2 FC<br>8:1   | 55.7 FC<br>6.8:1  | 35.7 FC<br>13.4:1 | 34.2 FC<br>16.3:1 | 29.7 FC<br>19.6:1 | 16.3 FC<br>91.6:1  |
| 10          | 340.6 FC<br>8.9:1 | 149.4 FC<br>26.4:1 | 102 FC<br>13.6:1 | 66.2 FC<br>33:1  | 61.7 FC<br>24.8:1 | 38.9 FC<br>58.2:1 | 38.2 FC<br>61.7:1 | 33.6 FC<br>67.7:1 | 16.7 FC<br>444.3:1 |

## FIXTURE: H17XL @ 240W + H17XL-RAL

35,019 Lumens

| Height (ft) | Spacing (ft)      |                    |                   |                   |                   |                    |                    |                   |                    |
|-------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
|             | 10x10             | 15x15              | 20x20             | 25x25             | 30x30             | 35x35              | 40x40              | 45x45             | 50x50              |
| 50          | 234.3 FC<br>3.4:1 | 105.5 FC<br>3.4:1  | 70 FC<br>2.7:1    | 45 FC<br>2.7:1    | 39.7 FC<br>1.8:1  | 24.9 FC<br>2.4:1   | 23 FC<br>1.7:1     | 20.4 FC<br>1.5:1  | 11.9 FC<br>2.7:1   |
| 45          | 244.1 FC<br>3.6:1 | 110.1 FC<br>3.7:1  | 73 FC<br>2.6:1    | 47.7 FC<br>2.5:1  | 41.3 FC<br>1.8:1  | 26.1 FC<br>2.3:1   | 24 FC<br>1.6:1     | 21.2 FC<br>1.3:1  | 12.5 FC<br>3:1     |
| 40          | 254 FC<br>3.9:1   | 114.9 FC<br>3.8:1  | 76.2 FC<br>2.8:1  | 49 FC<br>2.8:1    | 43 FC<br>1.7:1    | 27.3 FC<br>2.1:1   | 24.8 FC<br>1.6:1   | 21.9 FC<br>1.2:1  | 13.5 FC<br>3.6:1   |
| 35          | 264.4 FC<br>3.9:1 | 119.7 FC<br>3.9:1  | 79.5 FC<br>2.6:1  | 51.2 FC<br>2.6:1  | 44.9 FC<br>1.4:1  | 28.7 FC<br>1.9:1   | 26.2 FC<br>1.3:1   | 22.8 FC<br>1.7:1  | 13.9 FC<br>6.4:1   |
| 30          | 274.6 FC<br>4.3:1 | 124.7 FC<br>4.2:1  | 82.9 FC<br>2.6:1  | 54.3 FC<br>2.4:1  | 46.5 FC<br>1.2:1  | 30.6 FC<br>1.8:1   | 27.3 FC<br>2.2:1   | 23.7 FC<br>3.1:1  | 15 FC<br>11.5:1    |
| 25          | 285.2 FC<br>4.6:1 | 129.9 FC<br>4.7:1  | 86.8 FC<br>2.3:1  | 56.1 FC<br>2.8:1  | 48.2 FC<br>1.7:1  | 31.8 FC<br>3.3:1   | 28.9 FC<br>5.3:1   | 24.8 FC<br>7.5:1  | 15.1 FC<br>36.6:1  |
| 20          | 295.4 FC<br>5.6:1 | 135.4 FC<br>5.8:1  | 91.1 FC<br>2.1:1  | 61.7 FC<br>2.4:1  | 50.9 FC<br>4.1:1  | 33.7 FC<br>10.2:1  | 31.3 FC<br>14.9:1  | 26.7 FC<br>16.4:1 | 15.4 FC<br>82:1    |
| 15          | 306.6 FC<br>7.7:1 | 139.7 FC<br>12.1:1 | 98.3 FC<br>4.6:1  | 61.8 FC<br>22.2:1 | 55.2 FC<br>15.6:1 | 35 FC<br>41.8:1    | 34.2 FC<br>36.8:1  | 29.5 FC<br>38.3:1 | 15.5 FC<br>212.3:1 |
| 10          | 326.6 FC<br>16:1  | 141.2 FC<br>54.4:1 | 99.3 FC<br>44.2:1 | 63.1 FC<br>87.2:1 | 61.8 FC<br>48.5:1 | 36.9 FC<br>138.9:1 | 37.4 FC<br>124.5:1 | 33.8 FC<br>134:1  | 15.5 FC<br>1034:1  |

## FIXTURE: H17XL @ 240W + H17XL-RPC

34,972 Lumens

| Height (ft) | Spacing (ft)      |                    |                   |                   |                   |                   |                   |                   |                    |
|-------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10             | 15x15              | 20x20             | 25x25             | 30x30             | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 223 FC<br>3.1:1   | 100.6 FC<br>3.2:1  | 66.8 FC<br>2.6:1  | 42.9 FC<br>2.6:1  | 38.1 FC<br>1.8:1  | 23.7 FC<br>2.3:1  | 22 FC<br>1.7:1    | 19.7 FC<br>1.5:1  | 11.4 FC<br>2.6:1   |
| 45          | 233.2 FC<br>3.3:1 | 105.4 FC<br>3.4:1  | 70 FC<br>2.5:1    | 45.7 FC<br>2.4:1  | 39.9 FC<br>1.7:1  | 25 FC<br>2.2:1    | 23.1 FC<br>1.6:1  | 20.6 FC<br>1.3:1  | 12 FC<br>2.8:1     |
| 40          | 243.5 FC<br>3.5:1 | 110.3 FC<br>3.5:1  | 73.2 FC<br>2.6:1  | 47 FC<br>2.7:1    | 41.5 FC<br>1.7:1  | 26.2 FC<br>2:1    | 23.9 FC<br>1.5:1  | 21.4 FC<br>1.2:1  | 12.9 FC<br>3.3:1   |
| 35          | 254.4 FC<br>3.6:1 | 115.4 FC<br>3.7:1  | 76.7 FC<br>2.4:1  | 49.3 FC<br>2.6:1  | 43.5 FC<br>1.5:1  | 27.6 FC<br>1.9:1  | 25.3 FC<br>1.3:1  | 22.2 FC<br>1.6:1  | 13.3 FC<br>5.9:1   |
| 30          | 265.4 FC<br>4:1   | 120.7 FC<br>3.8:1  | 80.2 FC<br>2.5:1  | 52.5 FC<br>2.4:1  | 45.2 FC<br>1.2:1  | 29.5 FC<br>1.7:1  | 26.5 FC<br>2.1:1  | 23.1 FC<br>2.8:1  | 14.4 FC<br>9.1:1   |
| 25          | 277 FC<br>4.2:1   | 126.1 FC<br>4.5:1  | 84.2 FC<br>2.3:1  | 54.4 FC<br>2.8:1  | 47.1 FC<br>1.6:1  | 30.8 FC<br>3.3:1  | 28.1 FC<br>4.2:1  | 24.3 FC<br>5.2:1  | 14.5 FC<br>18.8:1  |
| 20          | 288.5 FC<br>5.1:1 | 132 FC<br>5.2:1    | 88.7 FC<br>2.1:1  | 59.9 FC<br>2.4:1  | 49.9 FC<br>3.5:1  | 32.6 FC<br>7.3:1  | 30.4 FC<br>8.8:1  | 26.2 FC<br>10.6:1 | 15 FC<br>44.1:1    |
| 15          | 300.1 FC<br>6.8:1 | 137.1 FC<br>9.7:1  | 95.9 FC<br>4.1:1  | 60 FC<br>14.9:1   | 53.9 FC<br>9.7:1  | 34.1 FC<br>23.9:1 | 33.2 FC<br>23:1   | 29 FC<br>26.4:1   | 15.4 FC<br>132.9:1 |
| 10          | 323.4 FC<br>12:1  | 137.9 FC<br>35.7:1 | 97.7 FC<br>25.7:1 | 62.9 FC<br>54.6:1 | 60.5 FC<br>35.8:1 | 36.3 FC<br>89.6:1 | 36.7 FC<br>89.8:1 | 33.2 FC<br>96.1:1 | 15.5 FC<br>631.3:1 |

## FIXTURE: H17XL @ 240W + H17XL-RPC + H17-RDL

32,782 Lumens

| Height (ft) | Spacing (ft) |          |         |         |         |         |         |         |         |
|-------------|--------------|----------|---------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15    | 20x20   | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 193.7 FC     | 87.7 FC  | 58.4 FC | 37.5 FC | 33.7 FC | 20.8 FC | 19.4 FC | 17.5 FC | 9.9 FC  |
|             | 2.8:1        | 2.8:1    | 2.4:1   | 2.4:1   | 1.8:1   | 2.1:1   | 1.6:1   | 1.5:1   | 2.5:1   |
| 45          | 204 FC       | 92.5 FC  | 61.6 FC | 40.2 FC | 35.4 FC | 22 FC   | 20.4 FC | 18.4 FC | 10.5 FC |
|             | 2.9:1        | 3.1:1    | 2.4:1   | 2.2:1   | 1.8:1   | 2.1:1   | 1.5:1   | 1.4:1   | 2.8:1   |
| 40          | 214.3 FC     | 97.4 FC  | 64.8 FC | 41.6 FC | 37 FC   | 23.2 FC | 21.3 FC | 19.1 FC | 11.3 FC |
|             | 3:1          | 3.1:1    | 2.4:1   | 2.5:1   | 1.7:1   | 2:1     | 1.5:1   | 1.3:1   | 3.2:1   |
| 35          | 225.3 FC     | 102.5 FC | 68.2 FC | 43.9 FC | 39 FC   | 24.5 FC | 22.7 FC | 20 FC   | 11.8 FC |
|             | 3.4:1        | 3.3:1    | 2.3:1   | 2.4:1   | 1.5:1   | 1.9:1   | 1.2:1   | 1.5:1   | 4.7:1   |
| 30          | 236.9 FC     | 107.9 FC | 71.8 FC | 47 FC   | 40.8 FC | 26.3 FC | 23.7 FC | 20.9 FC | 12.7 FC |
|             | 3.6:1        | 3.5:1    | 2.4:1   | 2.3:1   | 1.3:1   | 1.9:1   | 1.7:1   | 2.1:1   | 6.6:1   |
| 25          | 248.9 FC     | 113.6 FC | 75.7 FC | 48.9 FC | 42.8 FC | 27.6 FC | 25.3 FC | 22.1 FC | 13 FC   |
|             | 3.7:1        | 4:1      | 2.3:1   | 2.7:1   | 1.4:1   | 2.9:1   | 2.8:1   | 3.4:1   | 10.6:1  |
| 20          | 261.6 FC     | 119.5 FC | 80.4 FC | 53.9 FC | 45.4 FC | 29.3 FC | 27.2 FC | 23.8 FC | 13.6 FC |
|             | 4.3:1        | 4.5:1    | 2.1:1   | 2.3:1   | 2.5:1   | 5.4:1   | 5.2:1   | 6.8:1   | 25:1    |
| 15          | 274.4 FC     | 125 FC   | 87.2 FC | 54.6 FC | 48.8 FC | 30.9 FC | 29.7 FC | 26 FC   | 14.1 FC |
|             | 5.7:1        | 7.1:1    | 3.1:1   | 9:1     | 6:1     | 13.4:1  | 14.1:1  | 18.1:1  | 82.5:1  |
| 10          | 297.3 FC     | 127.4 FC | 89.9 FC | 57.9 FC | 55.1 FC | 33.4 FC | 33.1 FC | 29.9 FC | 14.5 FC |
|             | 9:1          | 22.8:1   | 16.1:1  | 35.6:1  | 23.2:1  | 58.1:1  | 61.5:1  | 69.4:1  | 419.1:1 |

## FIXTURE: H17XXL @ 300W

51,806 Lumens

| Height (ft) | Spacing (ft) |          |          |         |         |         |         |         |         |
|-------------|--------------|----------|----------|---------|---------|---------|---------|---------|---------|
|             | 10x10        | 15x15    | 20x20    | 25x25   | 30x30   | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 319.2 FC     | 144.7 FC | 96.3 FC  | 61.9 FC | 55.5 FC | 34.3 FC | 32 FC   | 28.7 FC | 16.3 FC |
|             | 2.9:1        | 3:1      | 2.4:1    | 2.5:1   | 1.7:1   | 2.3:1   | 1.7:1   | 1.5:1   | 2.6:1   |
| 45          | 335.5 FC     | 152.2 FC | 101.3 FC | 66 FC   | 58 FC   | 36.1 FC | 33.5 FC | 30.1 FC | 17.2 FC |
|             | 3:1          | 3.2:1    | 2.4:1    | 2.3:1   | 1.7:1   | 2.2:1   | 1.6:1   | 1.3:1   | 2.7:1   |
| 40          | 351.2 FC     | 159.8 FC | 106.3 FC | 68.3 FC | 60.7 FC | 37.9 FC | 34.7 FC | 31.2 FC | 18.5 FC |
|             | 3.3:1        | 3.3:1    | 2.5:1    | 2.6:1   | 1.6:1   | 2.1:1   | 1.6:1   | 1.2:1   | 3.1:1   |
| 35          | 367.8 FC     | 167.7 FC | 111.6 FC | 71.8 FC | 63.8 FC | 40 FC   | 37 FC   | 32.6 FC | 19.3 FC |
|             | 3.5:1        | 3.5:1    | 2.4:1    | 2.5:1   | 1.4:1   | 2:1     | 1.3:1   | 1.4:1   | 5:1     |
| 30          | 385.6 FC     | 176 FC   | 117.1 FC | 76.6 FC | 66.4 FC | 42.7 FC | 38.5 FC | 33.9 FC | 20.8 FC |
|             | 3.8:1        | 3.6:1    | 2.5:1    | 2.4:1   | 1.2:1   | 1.9:1   | 1.8:1   | 2.2:1   | 7.3:1   |
| 25          | 404.2 FC     | 184.6 FC | 123.2 FC | 79.7 FC | 69.6 FC | 44.9 FC | 41.1 FC | 35.9 FC | 21.3 FC |
|             | 4:1          | 4.2:1    | 2.3:1    | 2.6:1   | 1.4:1   | 2.9:1   | 3.2:1   | 4:1     | 13.4:1  |
| 20          | 423 FC       | 193.7 FC | 130.1 FC | 87.4 FC | 73.3 FC | 47.6 FC | 44 FC   | 38.2 FC | 22.1 FC |
|             | 4.6:1        | 4.5:1    | 2.1:1    | 2.3:1   | 2.6:1   | 5.7:1   | 6.8:1   | 8.5:1   | 34.4:1  |
| 15          | 441.4 FC     | 202.2 FC | 140.6 FC | 88.6 FC | 78.4 FC | 50 FC   | 48.1 FC | 41.7 FC | 22.8 FC |
|             | 5.9:1        | 8.1:1    | 3:1      | 10.6:1  | 7:1     | 17.8:1  | 18.7:1  | 21.4:1  | 117.6:1 |
| 10          | 476.5 FC     | 210 FC   | 143.9 FC | 92.7 FC | 86.4 FC | 55 FC   | 53.3 FC | 47.3 FC | 23.4 FC |
|             | 9.5:1        | 28.6:1   | 17.8:1   | 40.5:1  | 26.1:1  | 70.8:1  | 69:1    | 77.1:1  | 571.9:1 |

## FIXTURE: H17XXL @ 300W + H17XXL-RAL

48,084 Lumens

| Height (ft) | Spacing (ft)       |                    |                    |                   |                   |                    |                   |                   |                    |
|-------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|
|             | 10x10              | 15x15              | 20x20              | 25x25             | 30x30             | 35x35              | 40x40             | 45x45             | 50x50              |
| 50          | 313.6 FC<br>3.6:1  | 141.7 FC<br>3.6:1  | 94.1 FC<br>2.8:1   | 60.6 FC<br>2.8:1  | 53.6 FC<br>1.9:1  | 33.5 FC<br>2.6:1   | 31.1 FC<br>1.8:1  | 27.6 FC<br>1.5:1  | 16 FC<br>2.7:1     |
| 45          | 327.2 FC<br>3.9:1  | 148.3 FC<br>3.7:1  | 98.4 FC<br>2.8:1   | 64.3 FC<br>2.6:1  | 55.8 FC<br>1.9:1  | 35.2 FC<br>2.3:1   | 32.5 FC<br>1.7:1  | 28.7 FC<br>1.4:1  | 16.9 FC<br>3:1     |
| 40          | 341.1 FC<br>4.2:1  | 154.8 FC<br>4.2:1  | 102.9 FC<br>2.8:1  | 66.1 FC<br>2.9:1  | 58.1 FC<br>1.8:1  | 36.9 FC<br>2.2:1   | 33.6 FC<br>1.6:1  | 29.9 FC<br>1.2:1  | 18.1 FC<br>3.4:1   |
| 35          | 356.1 FC<br>4.1:1  | 161.8 FC<br>4.2:1  | 107.5 FC<br>2.8:1  | 69.2 FC<br>2.7:1  | 61 FC<br>1.5:1    | 38.8 FC<br>2.1:1   | 35.5 FC<br>1.3:1  | 31.1 FC<br>1.6:1  | 18.8 FC<br>5.4:1   |
| 30          | 370.1 FC<br>4.8:1  | 168.8 FC<br>4.6:1  | 112.3 FC<br>2.7:1  | 73.6 FC<br>2.5:1  | 63.4 FC<br>1.3:1  | 41.4 FC<br>1.9:1   | 36.9 FC<br>2:1    | 32.2 FC<br>2.7:1  | 20.3 FC<br>7.8:1   |
| 25          | 385.6 FC<br>5:1    | 176 FC<br>5:1      | 117.7 FC<br>2.4:1  | 76 FC<br>3:1      | 65.7 FC<br>1.6:1  | 43.1 FC<br>3.4:1   | 39.1 FC<br>4.1:1  | 33.8 FC<br>5.6:1  | 20.5 FC<br>28.1:1  |
| 20          | 400.6 FC<br>6.2:1  | 183.6 FC<br>6.6:1  | 123.7 FC<br>2.3:1  | 83.6 FC<br>2.4:1  | 69.2 FC<br>3.4:1  | 45.7 FC<br>7.4:1   | 42.2 FC<br>11.2:1 | 36.2 FC<br>14.2:1 | 21.1 FC<br>62.7:1  |
| 15          | 415.3 FC<br>8:1    | 190.4 FC<br>11.2:1 | 133 FC<br>3.8:1    | 84 FC<br>16.8:1   | 74.3 FC<br>12.8:1 | 47.7 FC<br>32.3:1  | 46 FC<br>29.9:1   | 39.9 FC<br>31.3:1 | 21.4 FC<br>169.8:1 |
| 10          | 444.1 FC<br>13.1:1 | 192.9 FC<br>47.3:1 | 135.4 FC<br>29.2:1 | 87.1 FC<br>64.8:1 | 82.9 FC<br>40.6:1 | 51.2 FC<br>109.2:1 | 50.9 FC<br>94.8:1 | 45.3 FC<br>106:1  | 21.5 FC<br>701.9:1 |

## FIXTURE: H17XXL @ 400W

65,645 Lumens

| Height (ft) | Spacing (ft)      |                   |                    |                    |                    |                   |                   |                   |                    |
|-------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10             | 15x15             | 20x20              | 25x25              | 30x30              | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 404.8 FC<br>2.9:1 | 183.5 FC<br>3:1   | 122.1 FC<br>2.4:1  | 78.5 FC<br>2.5:1   | 70.4 FC<br>1.7:1   | 43.6 FC<br>2.3:1  | 40.6 FC<br>1.7:1  | 36.4 FC<br>1.5:1  | 20.7 FC<br>2.6:1   |
| 45          | 425.3 FC<br>3:1   | 192.9 FC<br>3.2:1 | 128.4 FC<br>2.4:1  | 83.7 FC<br>2.3:1   | 73.6 FC<br>1.7:1   | 45.7 FC<br>2.2:1  | 42.5 FC<br>1.6:1  | 38.1 FC<br>1.3:1  | 21.9 FC<br>2.7:1   |
| 40          | 445.4 FC<br>3.3:1 | 202.6 FC<br>3.3:1 | 134.7 FC<br>2.5:1  | 86.6 FC<br>2.6:1   | 76.9 FC<br>1.6:1   | 48 FC<br>2.1:1    | 44 FC<br>1.6:1    | 39.5 FC<br>1.2:1  | 23.5 FC<br>3.2:1   |
| 35          | 466.3 FC<br>3.5:1 | 212.6 FC<br>3.5:1 | 141.5 FC<br>2.4:1  | 91 FC<br>2.5:1     | 80.9 FC<br>1.4:1   | 50.7 FC<br>2:1    | 46.9 FC<br>1.3:1  | 41.3 FC<br>1.4:1  | 24.4 FC<br>5.1:1   |
| 30          | 488.7 FC<br>3.8:1 | 223.1 FC<br>3.6:1 | 148.4 FC<br>2.5:1  | 97.1 FC<br>2.4:1   | 84.2 FC<br>1.2:1   | 54.2 FC<br>1.9:1  | 48.8 FC<br>1.8:1  | 43 FC<br>2.2:1    | 26.4 FC<br>7.5:1   |
| 25          | 512.4 FC<br>4:1   | 234 FC<br>4.2:1   | 156.2 FC<br>2.3:1  | 101 FC<br>2.6:1    | 88.2 FC<br>1.4:1   | 56.9 FC<br>2.9:1  | 52 FC<br>3.2:1    | 45.5 FC<br>4:1    | 27 FC<br>13.6:1    |
| 20          | 536.2 FC<br>4.6:1 | 245.6 FC<br>4.5:1 | 164.9 FC<br>2.1:1  | 110.8 FC<br>2.3:1  | 92.9 FC<br>2.6:1   | 60.3 FC<br>5.7:1  | 55.8 FC<br>6.9:1  | 48.4 FC<br>8.5:1  | 28 FC<br>35.4:1    |
| 15          | 559.5 FC<br>5.9:1 | 256.3 FC<br>8.1:1 | 178.2 FC<br>3:1    | 112.3 FC<br>10.6:1 | 99.4 FC<br>7:1     | 63.4 FC<br>18:1   | 60.9 FC<br>18.7:1 | 52.9 FC<br>21.5:1 | 28.9 FC<br>112.1:1 |
| 10          | 603.8 FC<br>9.5:1 | 266 FC<br>28.7:1  | 182.3 FC<br>17.8:1 | 117.5 FC<br>40.7:1 | 109.6 FC<br>26.2:1 | 69.7 FC<br>71.1:1 | 67.6 FC<br>69.2:1 | 60 FC<br>76.7:1   | 29.6 FC<br>581:1   |

## FIXTURE: H17XXL @ 400W + H17XXL-RAL

60,494 Lumens

| Height (ft) | Spacing (ft)      |                    |                    |                    |                    |                    |                   |                    |                    |
|-------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|
|             | 10x10             | 15x15              | 20x20              | 25x25              | 30x30              | 35x35              | 40x40             | 45x45              | 50x50              |
| 50          | 394.2 FC<br>3.6:1 | 178.2 FC<br>3.6:1  | 118.4 FC<br>2.7:1  | 76.1 FC<br>2.7:1   | 67.4 FC<br>1.9:1   | 42.1 FC<br>2.6:1   | 39 FC<br>1.8:1    | 34.8 FC<br>1.5:1   | 20.2 FC<br>2.7:1   |
| 45          | 411.4 FC<br>3.9:1 | 186.5 FC<br>3.7:1  | 123.7 FC<br>2.8:1  | 80.9 FC<br>2.6:1   | 70.2 FC<br>1.9:1   | 44.2 FC<br>2.3:1   | 40.8 FC<br>1.7:1  | 36.1 FC<br>1.4:1   | 21.2 FC<br>2.9:1   |
| 40          | 428.9 FC<br>4.2:1 | 194.6 FC<br>4.1:1  | 129.3 FC<br>2.8:1  | 83.1 FC<br>2.9:1   | 73.1 FC<br>1.8:1   | 46.4 FC<br>2.2:1   | 42.2 FC<br>1.6:1  | 37.6 FC<br>1.2:1   | 22.8 FC<br>3.3:1   |
| 35          | 447.9 FC<br>4.1:1 | 203.4 FC<br>4.2:1  | 135.2 FC<br>2.8:1  | 87 FC<br>2.7:1     | 76.7 FC<br>1.5:1   | 48.8 FC<br>2:1     | 44.7 FC<br>1.3:1  | 39.1 FC<br>1.6:1   | 23.6 FC<br>5.2:1   |
| 30          | 465.5 FC<br>4.8:1 | 212.3 FC<br>4.5:1  | 141.2 FC<br>2.7:1  | 92.5 FC<br>2.5:1   | 79.7 FC<br>1.3:1   | 52 FC<br>1.8:1     | 46.4 FC<br>2:1    | 40.5 FC<br>2.6:1   | 25.5 FC<br>7.8:1   |
| 25          | 485 FC<br>5:1     | 221.4 FC<br>4.9:1  | 148 FC<br>2.4:1    | 95.6 FC<br>3:1     | 82.6 FC<br>1.6:1   | 54.2 FC<br>3.4:1   | 49.1 FC<br>4.1:1  | 42.5 FC<br>5.5:1   | 25.7 FC<br>28.1:1  |
| 20          | 503.9 FC<br>6.1:1 | 231 FC<br>6.5:1    | 155.5 FC<br>2.3:1  | 105.1 FC<br>2.3:1  | 87 FC<br>3.3:1     | 57.4 FC<br>7.3:1   | 53.1 FC<br>11:1   | 45.5 FC<br>14:1    | 26.5 FC<br>61.7:1  |
| 15          | 522.5 FC<br>7.9:1 | 239.6 FC<br>11.1:1 | 167.4 FC<br>3.8:1  | 105.7 FC<br>16.6:1 | 93.4 FC<br>12.6:1  | 60 FC<br>32.3:1    | 57.9 FC<br>29.8:1 | 50.2 FC<br>30.8:1  | 26.9 FC<br>166.1:1 |
| 10          | 559.3 FC<br>13:1  | 243 FC<br>46.4:1   | 170.3 FC<br>28.9:1 | 109.6 FC<br>64.3:1 | 104.3 FC<br>40.5:1 | 64.4 FC<br>108.4:1 | 63.9 FC<br>93.9:1 | 56.9 FC<br>106.5:1 | 27.1 FC<br>768.1:1 |

## FIXTURE: H17XXL @ 500W

76,465 Lumens

| Height (ft) | Spacing (ft)      |                    |                    |                    |                    |                   |                   |                   |                    |
|-------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|
|             | 10x10             | 15x15              | 20x20              | 25x25              | 30x30              | 35x35             | 40x40             | 45x45             | 50x50              |
| 50          | 471 FC<br>2.9:1   | 213.5 FC<br>3:1    | 142.1 FC<br>2.4:1  | 91.4 FC<br>2.5:1   | 82 FC<br>1.7:1     | 50.7 FC<br>2.3:1  | 47.3 FC<br>1.7:1  | 42.4 FC<br>1.5:1  | 24.1 FC<br>2.6:1   |
| 45          | 495 FC<br>3:1     | 224.6 FC<br>3.2:1  | 149.5 FC<br>2.4:1  | 97.5 FC<br>2.3:1   | 85.6 FC<br>1.7:1   | 53.2 FC<br>2.2:1  | 49.5 FC<br>1.6:1  | 44.4 FC<br>1.3:1  | 25.4 FC<br>2.7:1   |
| 40          | 518.3 FC<br>3.3:1 | 235.9 FC<br>3.3:1  | 156.8 FC<br>2.5:1  | 100.9 FC<br>2.6:1  | 89.6 FC<br>1.6:1   | 55.9 FC<br>2.1:1  | 51.3 FC<br>1.6:1  | 46 FC<br>1.2:1    | 27.3 FC<br>3.1:1   |
| 35          | 543 FC<br>3.5:1   | 247.5 FC<br>3.5:1  | 164.7 FC<br>2.4:1  | 106 FC<br>2.5:1    | 94.2 FC<br>1.4:1   | 59 FC<br>2:1      | 54.6 FC<br>1.3:1  | 48.1 FC<br>1.4:1  | 28.4 FC<br>5:1     |
| 30          | 569 FC<br>3.8:1   | 259.8 FC<br>3.6:1  | 172.8 FC<br>2.5:1  | 113.1 FC<br>2.4:1  | 98.1 FC<br>1.2:1   | 63.1 FC<br>1.9:1  | 56.9 FC<br>1.8:1  | 50 FC<br>2.2:1    | 30.7 FC<br>7.3:1   |
| 25          | 596.7 FC<br>4:1   | 272.5 FC<br>4.2:1  | 181.9 FC<br>2.3:1  | 117.6 FC<br>2.6:1  | 102.7 FC<br>1.4:1  | 66.2 FC<br>2.9:1  | 60.6 FC<br>3.2:1  | 52.9 FC<br>4:1    | 31.4 FC<br>13.4:1  |
| 20          | 624.4 FC<br>4.6:1 | 286 FC<br>4.5:1    | 192 FC<br>2.1:1    | 129.1 FC<br>2.3:1  | 108.2 FC<br>2.6:1  | 70.2 FC<br>5.6:1  | 64.9 FC<br>6.8:1  | 56.4 FC<br>8.5:1  | 32.7 FC<br>34.6:1  |
| 15          | 651.5 FC<br>5.9:1 | 298.6 FC<br>8.1:1  | 207.5 FC<br>3:1    | 130.7 FC<br>10.5:1 | 115.7 FC<br>7:1    | 73.9 FC<br>17.8:1 | 70.9 FC<br>18.7:1 | 61.6 FC<br>21.4:1 | 33.7 FC<br>113.2:1 |
| 10          | 703.1 FC<br>9.5:1 | 309.8 FC<br>28.5:1 | 212.3 FC<br>17.7:1 | 136.8 FC<br>40.4:1 | 127.6 FC<br>26.2:1 | 81.2 FC<br>70.3:1 | 78.7 FC<br>68.5:1 | 69.8 FC<br>76.6:1 | 34.5 FC<br>561.5:1 |

# FIXTURE: H17XXL @ 500W + H17XXL-RAL

71,601 Lumens

| Height (ft) | Spacing (ft) |          |          |          |          |         |         |         |         |
|-------------|--------------|----------|----------|----------|----------|---------|---------|---------|---------|
|             | 10x10        | 15x15    | 20x20    | 25x25    | 30x30    | 35x35   | 40x40   | 45x45   | 50x50   |
| 50          | 466.7 FC     | 210.9 FC | 140.1 FC | 90.1 FC  | 79.8 FC  | 49.8 FC | 46.2 FC | 41.1 FC | 23.8 FC |
|             | 3.6:1        | 3.6:1    | 2.7:1    | 2.7:1    | 1.9:1    | 2.6:1   | 1.8:1   | 1.5:1   | 2.7:1   |
| 45          | 487 FC       | 220.7 FC | 146.5 FC | 95.7 FC  | 83.1 FC  | 52.4 FC | 48.3 FC | 42.7 FC | 25.1 FC |
|             | 3.9:1        | 3.7:1    | 2.8:1    | 2.6:1    | 1.9:1    | 2.3:1   | 1.7:1   | 1.4:1   | 2.9:1   |
| 40          | 507.7 FC     | 230.4 FC | 153.1 FC | 98.4 FC  | 86.5 FC  | 54.9 FC | 49.9 FC | 44.5 FC | 27 FC   |
|             | 4.2:1        | 4.1:1    | 2.8:1    | 2.9:1    | 1.8:1    | 2.2:1   | 1.6:1   | 1.2:1   | 3.3:1   |
| 35          | 530 FC       | 240.8 FC | 160 FC   | 103 FC   | 90.8 FC  | 57.7 FC | 52.9 FC | 46.2 FC | 28 FC   |
|             | 4.1:1        | 4.2:1    | 2.8:1    | 2.7:1    | 1.5:1    | 2:1     | 1.3:1   | 1.6:1   | 5.2:1   |
| 30          | 550.9 FC     | 251.3 FC | 167.1 FC | 109.4 FC | 94.3 FC  | 61.5 FC | 54.9 FC | 47.9 FC | 30.2 FC |
|             | 4.8:1        | 4.5:1    | 2.7:1    | 2.5:1    | 1.3:1    | 1.8:1   | 2:1     | 2.6:1   | 7.8:1   |
| 25          | 574.1 FC     | 262 FC   | 175.1 FC | 113.1 FC | 97.7 FC  | 64.1 FC | 58.1 FC | 50.2 FC | 30.5 FC |
|             | 5:1          | 4.9:1    | 2.4:1    | 3:1      | 1.6:1    | 3.4:1   | 4.1:1   | 5.6:1   | 27.7:1  |
| 20          | 596.3 FC     | 273.5 FC | 184 FC   | 124.3 FC | 102.9 FC | 68 FC   | 62.8 FC | 53.8 FC | 31.4 FC |
|             | 6.1:1        | 6.5:1    | 2.3:1    | 2.3:1    | 3.3:1    | 7.3:1   | 11:1    | 14:1    | 60.4:1  |
| 15          | 618.2 FC     | 283.6 FC | 198.1 FC | 125 FC   | 110.5 FC | 71 FC   | 68.6 FC | 59.4 FC | 31.8 FC |
|             | 7.9:1        | 11.1:1   | 3.8:1    | 16.7:1   | 12.6:1   | 31.9:1  | 30:1    | 31.1:1  | 172.1:1 |
| 10          | 661.8 FC     | 287.6 FC | 201.6 FC | 129.7 FC | 123.4 FC | 76.2 FC | 75.6 FC | 67.3 FC | 32.1 FC |
|             | 13:1         | 46.5:1   | 29:1     | 64.7:1   | 40.7:1   | 108.2:1 | 95.8:1  | 107:1   | 727.4:1 |