

3" ARCHITECTURAL FIRE-RATED ROUND FLANGELESS DOWNLIGHT



WARM  DIM

USE OF PRODUCT

Prodigy is an architectural fixture that is available in fixed, wall wash, or adjustable configurations. Meticulously engineered to offer an assortment of color temperatures, optics, filters, lumen outputs, and dimmable drivers. This series is suitable for residential and commercial applications in flange or flangeless appearance in an assortment of trim selections. May be utilized where fire-rating is required.

LED MODULE

Warm Dim LED range from 3000K to 1800K, in 90+ CRI, with 2-step binning which allows for color consistency between fixtures. This technology is great for setting a more cozy atmosphere and mimics the behavior of a traditional incandescent lighting. The module may be interchangeable from downlight, wall wash or adjustable by utilization of the appropriate holder. Module is accessible from below the ceiling.

ALIGNMENT/ADJUSTABILITY

Collar notch allows for easy alignment between trims.

OPTICS AND FILTERS

Optical lens available in 30°, 35°, 45°, 55° and 80°. Easily achieve narrow spot to wide flood beam pattern. Optional frosted, honeycomb, or solite filter available upon request. Optics and filters are field-replaceable and are accessible from below the ceiling.

DIMMING

Intelligent Drive (ID) is the standard, all-inclusive driver which is Triac (120V), ELV (120V), and 0–10V (120V–277V). Optional driver selections include eldoLED and Lutron. Drivers are accessible from below the ceiling.

THERMAL MANAGEMENT

Ambient temperature at fixture location should not exceed -20°C to 40°C.

TRIM

Die-cast trims are available in an assortment of finishes in round/square, flange/flangeless. Consult factory for made-to-order finishes. Flanged trim is compatible with all ceiling materials. Flangeless available for plaster ceilings. Frosted acrylic diffuser on trim is standard and allows it to meet wet location applications. Acrylic diffuser may be removed in the field. Wing bracket on trim accommodates for varying ceiling depths.

EMERGENCY BATTERY

Optional emergency battery (EM) available in 4W or 8W versions. Each provides light for a minimum of 90 minutes. EM back box (installed by factory) is required for the 4W version. 4W is accessible from below the ceiling. Ceiling access is required for the 8W version (test switch is remote). EM is UL 924 certified, CEC Title 20 approved, and provides sufficient lumens to comply with NFPA 101 safety code.

MOUNTING

Universal bar hanger (UH) is designed to mount to wood (two positions) and T-bar ceilings. UH may be adjusted vertically to accommodate varying ceiling depths.

NOTE

2-hour fire-rated ceiling assembly can be maintained when installed according to the International Building Code, Section 714. Metallic outlet boxes with metallic or non-metallic cover plates may be used in floor-ceiling and roof-ceiling assemblies with ratings not exceeding 2 hours. These assemblies should have gypsum board membranes. The metallic outlet boxes should be securely fastened to the joists and the opening in the gypsum board facing should be cut so that the clearance between the box and the gypsum board does not exceed 1/8". The surface area of individual boxes should not exceed 16 square inches. The aggregate surface area of the boxes should not exceed 100 square inches per 100 square feet of ceiling surface.

LABELS/COMPLIANCE/WARRANTY

- ETL (Intertek) Listed per UL 1598
- ETL (Intertek) Listed per UL514A (2-hour fire-rated metallic outlet box)
- Wet location rated.
- IC air-tight rated.
- Chicago Plenum rated.
- State of California Title 24 and JA8 compliant.



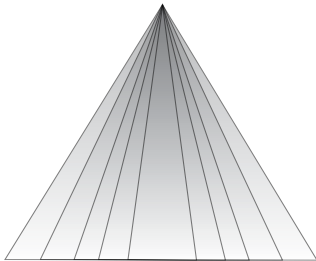
GENERAL PERFORMANCE CHART

\*Detailed performance chart may be found on page 2

|                  | 6W      | 9W      | 12W     | 15W       |
|------------------|---------|---------|---------|-----------|
| Initial Lumens   | 597     | 847     | 1122    | 1360      |
| Delivered Lumens | 485-513 | 691-731 | 917-973 | 1113-1184 |

\* Values are listed at 3000K, 90+ CRI with trim.  
Delivered lumens range based on beam spread.  
Performance may vary +/- 5%

BEAM SPREAD



Available optics: 30° 35° 45° 55° 80°

- Field replaceable TIR optics
- Easily achieve narrow spot to wide flood beam pattern
- Optional filters available upon request

ORDERING INFORMATION

|                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |                                                                                                                                                              |                                                           |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Wattage</b><br>6W - 6 Watt<br>9W - 9 Watt<br>12W - 12 Watt<br>15W - 15 Watt | <b>Dimming</b><br>ID <sup>1</sup> - Standard All-Inclusive ELV(120V), Triac(120V), and 0-10V(120-277V) Dimming Driver (Intelligent Drive)<br>EEIS <sup>2</sup> - eldoLED 1% Dim 0–10V (120-127V), Triac (120V)<br>EDIO <sup>3</sup> - eldoLED 0.1% Dim (0–10V)<br>EDID <sup>3</sup> - eldoLED 0.1% Dim (DALI)<br>EDD <sup>3</sup> - eldoLED 1% Dim (DALI2)<br>PEQO - Lutron Hi-Lume Premier Ecosystem 0.1% with Soft-on, Fade-to-Black Dimming | <b>Color Temperature</b><br>WD - Warm Dim            | <b>Optical Lens</b><br>30 - 30°<br>35 - 35°<br>30 - 30°<br>55 - 55°<br>80 - 80° | <b>Filter</b><br>None - Included<br>F - Frosted Filter<br>H - Honey Comb<br>S - Solite Filter                                                                | <b>Housing Type</b><br>IC - IC Air-Tight New Construction |
| <b>Collar</b><br>3CR - 3" Round Collar, 5/8" Height                            | <b>Module Type</b><br>FMH - Downlight                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Trim Style</b><br>LPR - Round Plaster Mud-in Ring | <b>Frame Accessories</b><br>UH - Universal Adjustable Bar Hanger                | <b>Options</b><br>EI4W - Emergency Battery with Integral Switch (4W)<br>ER8W <sup>4</sup> - Emergency Battery with Remote Switch (8W)<br>CP - Chicago Plenum |                                                           |

TRIM ORDERING INFORMATION

|                                                                                                                                             |                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bevel Finish</b><br>3RLOW - White Bevel<br>3RLOB - Black Bevel<br>3RLOH - Haze Bevel<br>3RLOBZ - Bronze Bevel<br>3RLOMTO - Made To Order | <b>Notes</b><br>1. Intelligent Drive is the standard driver.<br>2. Programmable only in linear mode.<br>3. Must specify logarithmic or linear eldoLED diver.<br>4. Ceiling access is required to replace the EM unit. |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

PERFORMANCE CHART

| Optics |                  | 30°  | 35°  | 45°  | 55°  | 80°  |
|--------|------------------|------|------|------|------|------|
| 6W     | Initial Lumens   | 597  | 597  | 597  | 597  | 597  |
|        | Delivered Lumens | 488  | 511  | 513  | 494  | 485  |
|        | UGR              | 14.6 | 14.7 | 16.9 | 19.6 | 23.2 |
| 9W     | Initial Lumens   | 847  | 847  | 847  | 847  | 847  |
|        | Delivered Lumens | 695  | 727  | 731  | 702  | 691  |
|        | UGR              | 15.9 | 16   | 18.2 | 20.8 | 24.5 |
| 12W    | Initial Lumens   | 1122 | 1122 | 1122 | 1122 | 1122 |
|        | Delivered Lumens | 921  | 963  | 973  | 928  | 917  |
|        | UGR              | 17   | 17   | 19.2 | 21.9 | 25.5 |
| 15W    | Initial Lumens   | 1360 | 1360 | 1360 | 1360 | 1360 |
|        | Delivered Lumens | 1116 | 1163 | 1184 | 1121 | 1113 |
|        | UGR              | 17.7 | 17.7 | 19.9 | 22.5 | 26.1 |

\* Values are listed at 3000K, 90+ CRI with trim.

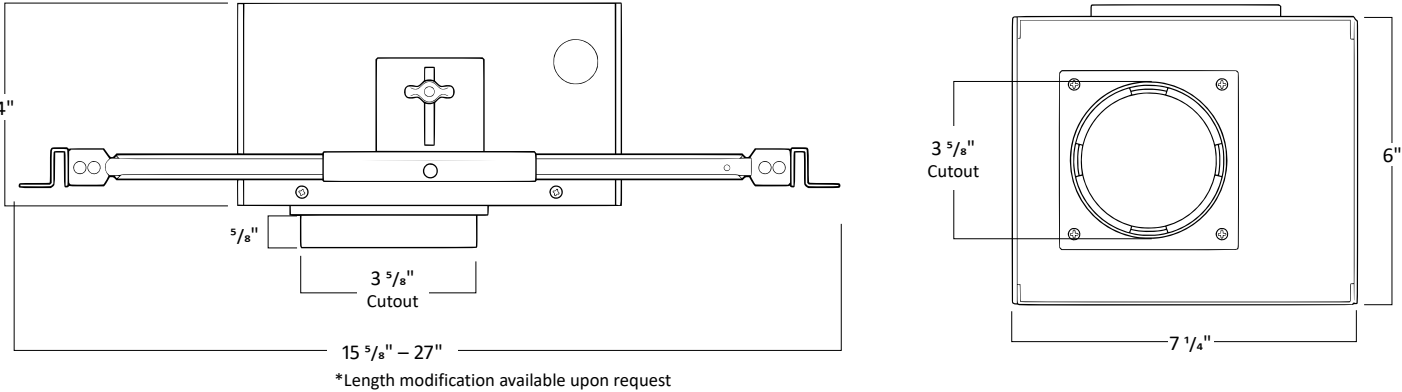
DIFFUSED LENS

OPTIONAL FIELD REMOVABLE LENS

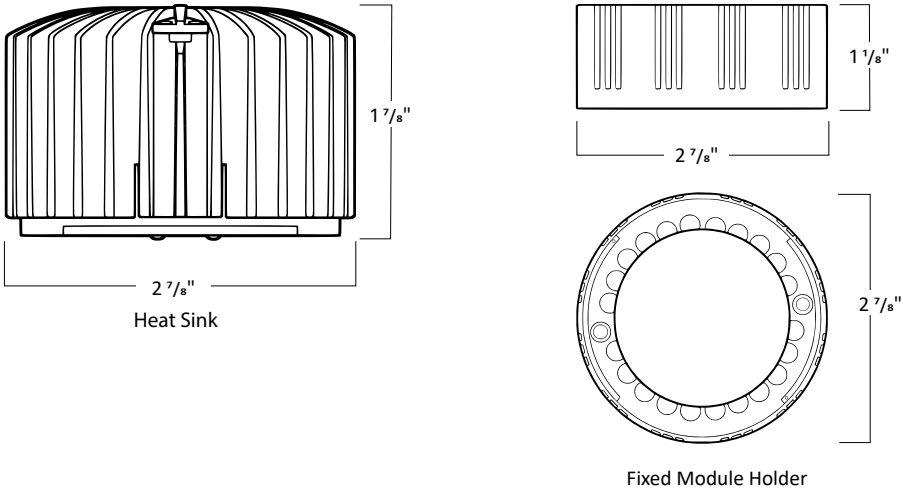


- Listed IES files are with diffused lens
- Not suitable for wet locations
  - Increase in lumens by approximately 7%

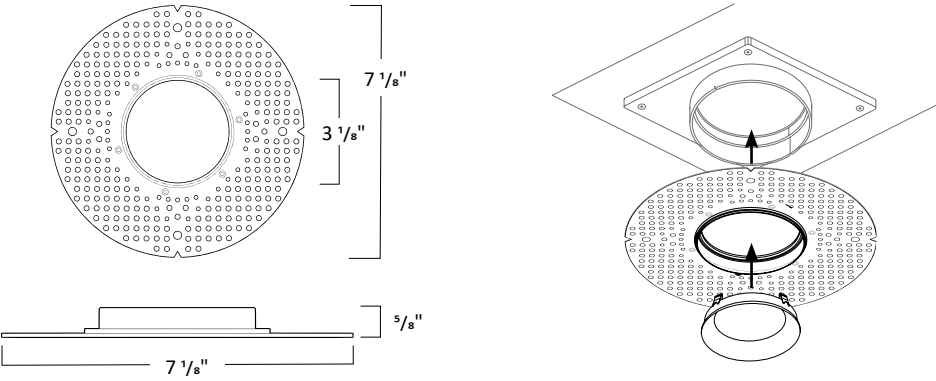
HOUSING DIMENSIONS



MODULE DIMENSIONS



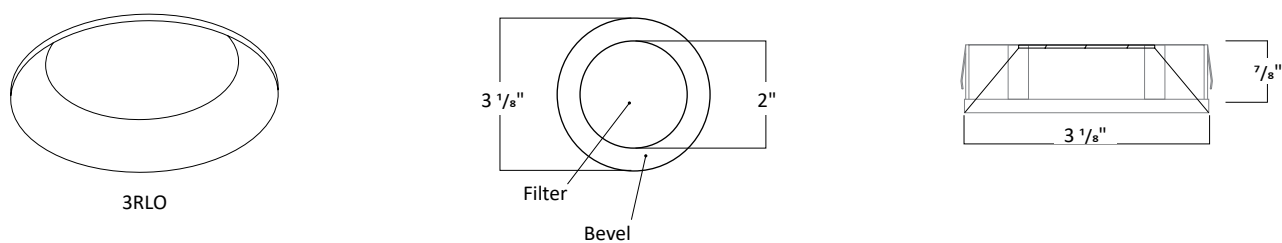
FLANGELESS PLASTER (LPR)



FILTERS



TRIM DIMENSIONS



TRIM FINISH

White

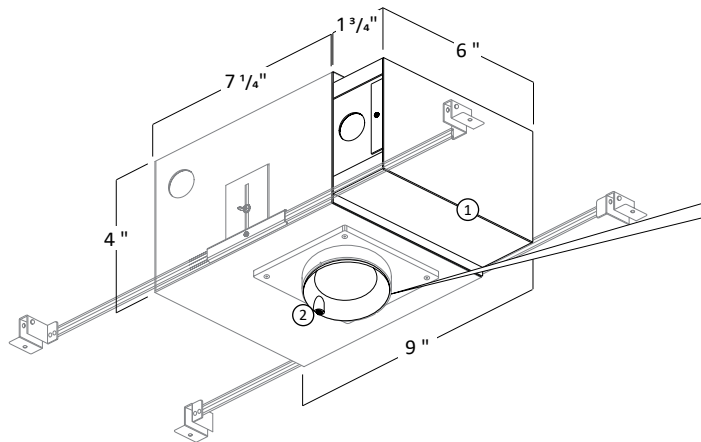
Black

Haze

Bronze

\*Consult Factory for Made to Order Finishes

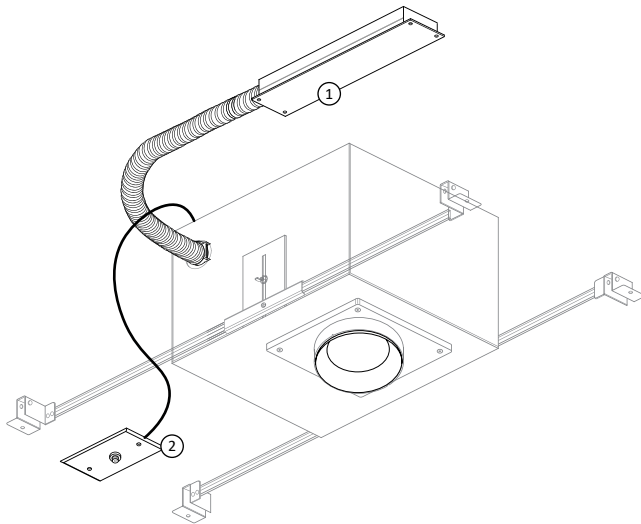
### INTEGRAL 4W EMERGENCY BATTERY



1. Integral Emergency Battery Compartment
2. Integral Test Switch

**EI4W** is an 4W Emergency Battery that is integral to the fixture with an integral test switch. The EM unit is accessible from below the ceiling for replacement purposes.

### REMOTE 8W EMERGENCY BATTERY



1. Remote Emergency Battery
2. Remote Test Switch

**ER8W** is an 8W Emergency Battery that is remote to the fixture with an remote test switch. Ceiling access is required to replace the EM unit.

### PHOTOMETRIC DATA

| <div><div>6W - 30°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>39</td><td>3.1 ft</td></tr><tr><td>8 ft</td><td>22</td><td>4.2 ft</td></tr><tr><td>10 ft</td><td>14</td><td>5.2 ft</td></tr><tr><td>12 ft</td><td>10</td><td>6.3 ft</td></tr><tr><td>14 ft</td><td>7</td><td>7.3 ft</td></tr><tr><td>16 ft</td><td>5</td><td>8.4 ft</td></tr><tr><td>18 ft</td><td>4</td><td>9.4 ft</td></tr><tr><td>20 ft</td><td>4</td><td>10.5 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>488 lm</div></div><div><div>Efficiency :</div><div>76 lm/W</div></div></div>      | Throw Distance | Center Beam fc | Beam Width | 6 ft | 39 | 3.1 ft | 8 ft | 22 | 4.2 ft | 10 ft | 14 | 5.2 ft | 12 ft | 10 | 6.3 ft | 14 ft | 7  | 7.3 ft | 16 ft | 5  | 8.4 ft | 18 ft | 4  | 9.4 ft | 20 ft | 4 | 10.5 ft | <div><div>6W - 35°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>34</td><td>3.5 ft</td></tr><tr><td>8 ft</td><td>19</td><td>4.7 ft</td></tr><tr><td>10 ft</td><td>12</td><td>5.9 ft</td></tr><tr><td>12 ft</td><td>9</td><td>7.1 ft</td></tr><tr><td>14 ft</td><td>6</td><td>8.3 ft</td></tr><tr><td>16 ft</td><td>5</td><td>9.5 ft</td></tr><tr><td>18 ft</td><td>4</td><td>10.7 ft</td></tr><tr><td>20 ft</td><td>3</td><td>11.9 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>511 lm</div></div><div><div>Efficiency :</div><div>80 lm/W</div></div></div>      | Throw Distance | Center Beam fc | Beam Width | 6 ft | 34 | 3.5 ft | 8 ft | 19 | 4.7 ft | 10 ft | 12 | 5.9 ft | 12 ft | 9  | 7.1 ft | 14 ft | 6  | 8.3 ft | 16 ft | 5  | 9.5 ft | 18 ft | 4 | 10.7 ft | 20 ft | 3 | 11.9 ft | <div><div>6W - 45°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>24</td><td>4.5 ft</td></tr><tr><td>8 ft</td><td>13</td><td>6.1 ft</td></tr><tr><td>10 ft</td><td>8</td><td>7.6 ft</td></tr><tr><td>12 ft</td><td>6</td><td>9.1 ft</td></tr><tr><td>14 ft</td><td>4</td><td>10.6 ft</td></tr><tr><td>16 ft</td><td>3</td><td>12.1 ft</td></tr><tr><td>18 ft</td><td>3</td><td>13.7 ft</td></tr><tr><td>20 ft</td><td>2</td><td>15.2 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>513 lm</div></div><div><div>Efficiency :</div><div>80 lm/W</div></div></div>      | Throw Distance | Center Beam fc | Beam Width | 6 ft | 24 | 4.5 ft | 8 ft | 13 | 6.1 ft | 10 ft | 8  | 7.6 ft | 12 ft | 6  | 9.1 ft | 14 ft | 4  | 10.6 ft | 16 ft | 3 | 12.1 ft | 18 ft | 3 | 13.7 ft | 20 ft | 2 | 15.2 ft | <div><div>6W - 55°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>16</td><td>5.8 ft</td></tr><tr><td>8 ft</td><td>9</td><td>7.8 ft</td></tr><tr><td>10 ft</td><td>6</td><td>9.8 ft</td></tr><tr><td>12 ft</td><td>4</td><td>11.7 ft</td></tr><tr><td>14 ft</td><td>3</td><td>13.7 ft</td></tr><tr><td>16 ft</td><td>2</td><td>15.7 ft</td></tr><tr><td>18 ft</td><td>2</td><td>17.6 ft</td></tr><tr><td>20 ft</td><td>1</td><td>19.6 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>494 lm</div></div><div><div>Efficiency :</div><div>77 lm/W</div></div></div>     | Throw Distance | Center Beam fc | Beam Width | 6 ft | 16 | 5.8 ft | 8 ft | 9  | 7.8 ft | 10 ft | 6  | 9.8 ft | 12 ft | 4 | 11.7 ft | 14 ft | 3 | 13.7 ft | 16 ft | 2 | 15.7 ft | 18 ft | 2 | 17.6 ft | 20 ft | 1 | 19.6 ft | <div><div>6W - 80°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>8</td><td>10.0 ft</td></tr><tr><td>8 ft</td><td>5</td><td>13.3 ft</td></tr><tr><td>10 ft</td><td>3</td><td>16.7 ft</td></tr><tr><td>12 ft</td><td>2</td><td>20.0 ft</td></tr><tr><td>14 ft</td><td>1.5</td><td>23.4 ft</td></tr><tr><td>16 ft</td><td>1.2</td><td>26.7 ft</td></tr><tr><td>18 ft</td><td>0.9</td><td>30.1 ft</td></tr><tr><td>20 ft</td><td>0.7</td><td>33.4 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>485 lm</div></div><div><div>Efficiency :</div><div>76 lm/W</div></div></div> | Throw Distance | Center Beam fc | Beam Width | 6 ft | 8  | 10.0 ft | 8 ft | 5  | 13.3 ft | 10 ft | 3 | 16.7 ft | 12 ft | 2 | 20.0 ft | 14 ft | 1.5 | 23.4 ft | 16 ft | 1.2 | 26.7 ft | 18 ft | 0.9 | 30.1 ft | 20 ft | 0.7 | 33.4 ft |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------|------|----|--------|------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|---|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------|------|----|--------|------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|---|---------|-------|---|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------|------|----|--------|------|----|--------|-------|----|--------|-------|----|--------|-------|----|---------|-------|---|---------|-------|---|---------|-------|---|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------|------|----|--------|------|----|--------|-------|----|--------|-------|---|---------|-------|---|---------|-------|---|---------|-------|---|---------|-------|---|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------|------|----|---------|------|----|---------|-------|---|---------|-------|---|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 39             | 3.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22             | 4.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14             | 5.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10             | 6.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7              | 7.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 8.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 9.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 10.5 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 34             | 3.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19             | 4.7 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12             | 5.9 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9              | 7.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 8.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 9.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 10.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 11.9 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24             | 4.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13             | 6.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 7.6 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 9.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 10.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 12.1 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 15.2 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16             | 5.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9              | 7.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 9.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 11.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 15.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 17.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 19.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8              | 10.0 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5              | 13.3 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 16.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 20.0 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.5            | 23.4 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.2            | 26.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.9            | 30.1 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.7            | 33.4 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| <div><div>9W - 30°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>55</td><td>3.1 ft</td></tr><tr><td>8 ft</td><td>31</td><td>4.1 ft</td></tr><tr><td>10 ft</td><td>20</td><td>5.2 ft</td></tr><tr><td>12 ft</td><td>14</td><td>6.2 ft</td></tr><tr><td>14 ft</td><td>10</td><td>7.3 ft</td></tr><tr><td>16 ft</td><td>8</td><td>8.4 ft</td></tr><tr><td>18 ft</td><td>6</td><td>9.4 ft</td></tr><tr><td>20 ft</td><td>5</td><td>10.5 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>695 lm</div></div><div><div>Efficiency :</div><div>76 lm/W</div></div></div>     | Throw Distance | Center Beam fc | Beam Width | 6 ft | 55 | 3.1 ft | 8 ft | 31 | 4.1 ft | 10 ft | 20 | 5.2 ft | 12 ft | 14 | 6.2 ft | 14 ft | 10 | 7.3 ft | 16 ft | 8  | 8.4 ft | 18 ft | 6  | 9.4 ft | 20 ft | 5 | 10.5 ft | <div><div>9W - 35°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>49</td><td>3.5 ft</td></tr><tr><td>8 ft</td><td>28</td><td>4.7 ft</td></tr><tr><td>10 ft</td><td>18</td><td>5.9 ft</td></tr><tr><td>12 ft</td><td>12</td><td>7.1 ft</td></tr><tr><td>14 ft</td><td>9</td><td>8.3 ft</td></tr><tr><td>16 ft</td><td>7</td><td>9.5 ft</td></tr><tr><td>18 ft</td><td>5</td><td>10.6 ft</td></tr><tr><td>20 ft</td><td>4</td><td>11.8 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>727 lm</div></div><div><div>Efficiency :</div><div>79 lm/W</div></div></div>     | Throw Distance | Center Beam fc | Beam Width | 6 ft | 49 | 3.5 ft | 8 ft | 28 | 4.7 ft | 10 ft | 18 | 5.9 ft | 12 ft | 12 | 7.1 ft | 14 ft | 9  | 8.3 ft | 16 ft | 7  | 9.5 ft | 18 ft | 5 | 10.6 ft | 20 ft | 4 | 11.8 ft | <div><div>9W - 45°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>34</td><td>4.5 ft</td></tr><tr><td>8 ft</td><td>19</td><td>6.1 ft</td></tr><tr><td>10 ft</td><td>12</td><td>7.6 ft</td></tr><tr><td>12 ft</td><td>8</td><td>9.1 ft</td></tr><tr><td>14 ft</td><td>6</td><td>10.6 ft</td></tr><tr><td>16 ft</td><td>5</td><td>12.1 ft</td></tr><tr><td>18 ft</td><td>4</td><td>13.7 ft</td></tr><tr><td>20 ft</td><td>3</td><td>15.2 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>731 lm</div></div><div><div>Efficiency :</div><div>79 lm/W</div></div></div>     | Throw Distance | Center Beam fc | Beam Width | 6 ft | 34 | 4.5 ft | 8 ft | 19 | 6.1 ft | 10 ft | 12 | 7.6 ft | 12 ft | 8  | 9.1 ft | 14 ft | 6  | 10.6 ft | 16 ft | 5 | 12.1 ft | 18 ft | 4 | 13.7 ft | 20 ft | 3 | 15.2 ft | <div><div>9W - 55°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>22</td><td>5.8 ft</td></tr><tr><td>8 ft</td><td>12</td><td>7.8 ft</td></tr><tr><td>10 ft</td><td>8</td><td>9.8 ft</td></tr><tr><td>12 ft</td><td>6</td><td>11.7 ft</td></tr><tr><td>14 ft</td><td>4</td><td>13.7 ft</td></tr><tr><td>16 ft</td><td>3</td><td>15.7 ft</td></tr><tr><td>18 ft</td><td>2</td><td>17.6 ft</td></tr><tr><td>20 ft</td><td>2</td><td>19.6 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>702 lm</div></div><div><div>Efficiency :</div><div>76 lm/W</div></div></div>    | Throw Distance | Center Beam fc | Beam Width | 6 ft | 22 | 5.8 ft | 8 ft | 12 | 7.8 ft | 10 ft | 8  | 9.8 ft | 12 ft | 6 | 11.7 ft | 14 ft | 4 | 13.7 ft | 16 ft | 3 | 15.7 ft | 18 ft | 2 | 17.6 ft | 20 ft | 2 | 19.6 ft | <div><div>9W - 80°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>12</td><td>10.0 ft</td></tr><tr><td>8 ft</td><td>7</td><td>13.3 ft</td></tr><tr><td>10 ft</td><td>4</td><td>16.7 ft</td></tr><tr><td>12 ft</td><td>3</td><td>20.0 ft</td></tr><tr><td>14 ft</td><td>2</td><td>23.4 ft</td></tr><tr><td>16 ft</td><td>2</td><td>26.7 ft</td></tr><tr><td>18 ft</td><td>1</td><td>30.1 ft</td></tr><tr><td>20 ft</td><td>1</td><td>33.4 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>691 lm</div></div><div><div>Efficiency :</div><div>75 lm/W</div></div></div>        | Throw Distance | Center Beam fc | Beam Width | 6 ft | 12 | 10.0 ft | 8 ft | 7  | 13.3 ft | 10 ft | 4 | 16.7 ft | 12 ft | 3 | 20.0 ft | 14 ft | 2   | 23.4 ft | 16 ft | 2   | 26.7 ft | 18 ft | 1   | 30.1 ft | 20 ft | 1   | 33.4 ft |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 55             | 3.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 31             | 4.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20             | 5.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14             | 6.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10             | 7.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 8.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 9.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 10.5 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 49             | 3.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 28             | 4.7 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18             | 5.9 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12             | 7.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9              | 8.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7              | 9.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 10.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 11.8 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 34             | 4.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19             | 6.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12             | 7.6 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 9.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 10.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 12.1 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 15.2 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22             | 5.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12             | 7.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 9.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 11.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 15.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 17.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 19.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12             | 10.0 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7              | 13.3 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 16.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 20.0 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 23.4 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 26.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 30.1 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 33.4 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| <div><div>12W - 30°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>73</td><td>3.1 ft</td></tr><tr><td>8 ft</td><td>41</td><td>4.1 ft</td></tr><tr><td>10 ft</td><td>26</td><td>5.2 ft</td></tr><tr><td>12 ft</td><td>18</td><td>6.2 ft</td></tr><tr><td>14 ft</td><td>13</td><td>7.3 ft</td></tr><tr><td>16 ft</td><td>10</td><td>8.4 ft</td></tr><tr><td>18 ft</td><td>8</td><td>9.4 ft</td></tr><tr><td>20 ft</td><td>7</td><td>10.5 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>921 lm</div></div><div><div>Efficiency :</div><div>75 lm/W</div></div></div>   | Throw Distance | Center Beam fc | Beam Width | 6 ft | 73 | 3.1 ft | 8 ft | 41 | 4.1 ft | 10 ft | 26 | 5.2 ft | 12 ft | 18 | 6.2 ft | 14 ft | 13 | 7.3 ft | 16 ft | 10 | 8.4 ft | 18 ft | 8  | 9.4 ft | 20 ft | 7 | 10.5 ft | <div><div>12W - 35°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>65</td><td>3.5 ft</td></tr><tr><td>8 ft</td><td>36</td><td>4.7 ft</td></tr><tr><td>10 ft</td><td>23</td><td>5.9 ft</td></tr><tr><td>12 ft</td><td>16</td><td>7.1 ft</td></tr><tr><td>14 ft</td><td>12</td><td>8.3 ft</td></tr><tr><td>16 ft</td><td>9</td><td>9.5 ft</td></tr><tr><td>18 ft</td><td>7</td><td>10.6 ft</td></tr><tr><td>20 ft</td><td>6</td><td>11.8 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>963 lm</div></div><div><div>Efficiency :</div><div>78 lm/W</div></div></div>   | Throw Distance | Center Beam fc | Beam Width | 6 ft | 65 | 3.5 ft | 8 ft | 36 | 4.7 ft | 10 ft | 23 | 5.9 ft | 12 ft | 16 | 7.1 ft | 14 ft | 12 | 8.3 ft | 16 ft | 9  | 9.5 ft | 18 ft | 7 | 10.6 ft | 20 ft | 6 | 11.8 ft | <div><div>12W - 45°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>45</td><td>4.5 ft</td></tr><tr><td>8 ft</td><td>25</td><td>6.1 ft</td></tr><tr><td>10 ft</td><td>16</td><td>7.6 ft</td></tr><tr><td>12 ft</td><td>11</td><td>9.1 ft</td></tr><tr><td>14 ft</td><td>8</td><td>10.6 ft</td></tr><tr><td>16 ft</td><td>6</td><td>12.1 ft</td></tr><tr><td>18 ft</td><td>5</td><td>13.7 ft</td></tr><tr><td>20 ft</td><td>4</td><td>15.2 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>973 lm</div></div><div><div>Efficiency :</div><div>79 lm/W</div></div></div>   | Throw Distance | Center Beam fc | Beam Width | 6 ft | 45 | 4.5 ft | 8 ft | 25 | 6.1 ft | 10 ft | 16 | 7.6 ft | 12 ft | 11 | 9.1 ft | 14 ft | 8  | 10.6 ft | 16 ft | 6 | 12.1 ft | 18 ft | 5 | 13.7 ft | 20 ft | 4 | 15.2 ft | <div><div>12W - 55°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>29</td><td>5.8 ft</td></tr><tr><td>8 ft</td><td>16</td><td>7.8 ft</td></tr><tr><td>10 ft</td><td>10</td><td>9.8 ft</td></tr><tr><td>12 ft</td><td>7</td><td>11.7 ft</td></tr><tr><td>14 ft</td><td>5</td><td>13.7 ft</td></tr><tr><td>16 ft</td><td>4</td><td>15.7 ft</td></tr><tr><td>18 ft</td><td>3</td><td>17.6 ft</td></tr><tr><td>20 ft</td><td>3</td><td>19.6 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>928 lm</div></div><div><div>Efficiency :</div><div>75 lm/W</div></div></div>  | Throw Distance | Center Beam fc | Beam Width | 6 ft | 29 | 5.8 ft | 8 ft | 16 | 7.8 ft | 10 ft | 10 | 9.8 ft | 12 ft | 7 | 11.7 ft | 14 ft | 5 | 13.7 ft | 16 ft | 4 | 15.7 ft | 18 ft | 3 | 17.6 ft | 20 ft | 3 | 19.6 ft | <div><div>12W - 80°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>16</td><td>10.0 ft</td></tr><tr><td>8 ft</td><td>9</td><td>13.3 ft</td></tr><tr><td>10 ft</td><td>6</td><td>16.7 ft</td></tr><tr><td>12 ft</td><td>4</td><td>20.0 ft</td></tr><tr><td>14 ft</td><td>3</td><td>23.4 ft</td></tr><tr><td>16 ft</td><td>2</td><td>26.7 ft</td></tr><tr><td>18 ft</td><td>2</td><td>30.1 ft</td></tr><tr><td>20 ft</td><td>1</td><td>33.4 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>917 lm</div></div><div><div>Efficiency :</div><div>75 lm/W</div></div></div>       | Throw Distance | Center Beam fc | Beam Width | 6 ft | 16 | 10.0 ft | 8 ft | 9  | 13.3 ft | 10 ft | 6 | 16.7 ft | 12 ft | 4 | 20.0 ft | 14 ft | 3   | 23.4 ft | 16 ft | 2   | 26.7 ft | 18 ft | 2   | 30.1 ft | 20 ft | 1   | 33.4 ft |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 73             | 3.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 41             | 4.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 26             | 5.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18             | 6.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13             | 7.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10             | 8.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 9.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7              | 10.5 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 65             | 3.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36             | 4.7 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 23             | 5.9 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16             | 7.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12             | 8.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9              | 9.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7              | 10.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 11.8 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45             | 4.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25             | 6.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16             | 7.6 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11             | 9.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 10.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 12.1 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 15.2 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 29             | 5.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16             | 7.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10             | 9.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7              | 11.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 15.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 17.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 19.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16             | 10.0 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9              | 13.3 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 16.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 20.0 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 23.4 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 26.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 30.1 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 33.4 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| <div><div>15W - 30°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>88</td><td>3.1 ft</td></tr><tr><td>8 ft</td><td>50</td><td>4.2 ft</td></tr><tr><td>10 ft</td><td>32</td><td>5.2 ft</td></tr><tr><td>12 ft</td><td>22</td><td>6.3 ft</td></tr><tr><td>14 ft</td><td>16</td><td>7.3 ft</td></tr><tr><td>16 ft</td><td>12</td><td>8.4 ft</td></tr><tr><td>18 ft</td><td>10</td><td>9.4 ft</td></tr><tr><td>20 ft</td><td>8</td><td>10.5 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>1116 lm</div></div><div><div>Efficiency :</div><div>73 lm/W</div></div></div> | Throw Distance | Center Beam fc | Beam Width | 6 ft | 88 | 3.1 ft | 8 ft | 50 | 4.2 ft | 10 ft | 32 | 5.2 ft | 12 ft | 22 | 6.3 ft | 14 ft | 16 | 7.3 ft | 16 ft | 12 | 8.4 ft | 18 ft | 10 | 9.4 ft | 20 ft | 8 | 10.5 ft | <div><div>15W - 35°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>78</td><td>3.5 ft</td></tr><tr><td>8 ft</td><td>44</td><td>4.7 ft</td></tr><tr><td>10 ft</td><td>28</td><td>5.9 ft</td></tr><tr><td>12 ft</td><td>20</td><td>7.1 ft</td></tr><tr><td>14 ft</td><td>14</td><td>8.3 ft</td></tr><tr><td>16 ft</td><td>11</td><td>9.5 ft</td></tr><tr><td>18 ft</td><td>9</td><td>10.6 ft</td></tr><tr><td>20 ft</td><td>7</td><td>11.8 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>1163 lm</div></div><div><div>Efficiency :</div><div>76 lm/W</div></div></div> | Throw Distance | Center Beam fc | Beam Width | 6 ft | 78 | 3.5 ft | 8 ft | 44 | 4.7 ft | 10 ft | 28 | 5.9 ft | 12 ft | 20 | 7.1 ft | 14 ft | 14 | 8.3 ft | 16 ft | 11 | 9.5 ft | 18 ft | 9 | 10.6 ft | 20 ft | 7 | 11.8 ft | <div><div>15W - 45°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>54</td><td>4.5 ft</td></tr><tr><td>8 ft</td><td>31</td><td>6.1 ft</td></tr><tr><td>10 ft</td><td>20</td><td>7.6 ft</td></tr><tr><td>12 ft</td><td>14</td><td>9.1 ft</td></tr><tr><td>14 ft</td><td>10</td><td>10.6 ft</td></tr><tr><td>16 ft</td><td>8</td><td>12.1 ft</td></tr><tr><td>18 ft</td><td>6</td><td>13.7 ft</td></tr><tr><td>20 ft</td><td>5</td><td>15.2 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>1184 lm</div></div><div><div>Efficiency :</div><div>77 lm/W</div></div></div> | Throw Distance | Center Beam fc | Beam Width | 6 ft | 54 | 4.5 ft | 8 ft | 31 | 6.1 ft | 10 ft | 20 | 7.6 ft | 12 ft | 14 | 9.1 ft | 14 ft | 10 | 10.6 ft | 16 ft | 8 | 12.1 ft | 18 ft | 6 | 13.7 ft | 20 ft | 5 | 15.2 ft | <div><div>15W - 55°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>35</td><td>5.8 ft</td></tr><tr><td>8 ft</td><td>20</td><td>7.8 ft</td></tr><tr><td>10 ft</td><td>13</td><td>9.8 ft</td></tr><tr><td>12 ft</td><td>9</td><td>11.7 ft</td></tr><tr><td>14 ft</td><td>6</td><td>13.7 ft</td></tr><tr><td>16 ft</td><td>5</td><td>15.7 ft</td></tr><tr><td>18 ft</td><td>4</td><td>17.6 ft</td></tr><tr><td>20 ft</td><td>3</td><td>19.6 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>1121 lm</div></div><div><div>Efficiency :</div><div>73 lm/W</div></div></div> | Throw Distance | Center Beam fc | Beam Width | 6 ft | 35 | 5.8 ft | 8 ft | 20 | 7.8 ft | 10 ft | 13 | 9.8 ft | 12 ft | 9 | 11.7 ft | 14 ft | 6 | 13.7 ft | 16 ft | 5 | 15.7 ft | 18 ft | 4 | 17.6 ft | 20 ft | 3 | 19.6 ft | <div><div>15W - 80°</div><table><thead><tr><th>Throw Distance</th><th>Center Beam fc</th><th>Beam Width</th></tr></thead><tbody><tr><td>6 ft</td><td>19</td><td>9.9 ft</td></tr><tr><td>8 ft</td><td>11</td><td>13.3 ft</td></tr><tr><td>10 ft</td><td>7</td><td>16.7 ft</td></tr><tr><td>12 ft</td><td>5</td><td>20.0 ft</td></tr><tr><td>14 ft</td><td>3</td><td>23.3 ft</td></tr><tr><td>16 ft</td><td>3</td><td>26.7 ft</td></tr><tr><td>18 ft</td><td>2</td><td>29.9 ft</td></tr><tr><td>20 ft</td><td>2</td><td>33.3 ft</td></tr></tbody></table><div><div>Delivered Lumens :</div><div>1113 lm</div></div><div><div>Efficiency :</div><div>73 lm/W</div></div></div>      | Throw Distance | Center Beam fc | Beam Width | 6 ft | 19 | 9.9 ft  | 8 ft | 11 | 13.3 ft | 10 ft | 7 | 16.7 ft | 12 ft | 5 | 20.0 ft | 14 ft | 3   | 23.3 ft | 16 ft | 3   | 26.7 ft | 18 ft | 2   | 29.9 ft | 20 ft | 2   | 33.3 ft |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 88             | 3.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50             | 4.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 32             | 5.2 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22             | 6.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16             | 7.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12             | 8.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10             | 9.4 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 10.5 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 78             | 3.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 44             | 4.7 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 28             | 5.9 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20             | 7.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14             | 8.3 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11             | 9.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9              | 10.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7              | 11.8 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 54             | 4.5 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 31             | 6.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20             | 7.6 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14             | 9.1 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10             | 10.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8              | 12.1 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 15.2 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 35             | 5.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20             | 7.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13             | 9.8 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9              | 11.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6              | 13.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 15.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4              | 17.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 19.6 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| Throw Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Center Beam fc | Beam Width     |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19             | 9.9 ft         |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 8 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11             | 13.3 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7              | 16.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5              | 20.0 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 14 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 23.3 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 16 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3              | 26.7 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 18 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 29.9 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |
| 20 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2              | 33.3 ft        |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |        |       |    |        |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |            |      |    |        |      |    |        |       |    |        |       |    |        |       |    |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |            |      |    |        |      |    |        |       |    |        |       |   |         |       |   |         |       |   |         |       |   |         |       |   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |            |      |    |         |      |    |         |       |   |         |       |   |         |       |     |         |       |     |         |       |     |         |       |     |         |