

Scaled data based on original data using  
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires  
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P10091\_150MP

Luminaire Tested: **LXF15P55**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: P10091\_150MP  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF15P55  
Description: LEXINGTON HID TYPE 5 POST TOP FIXTURE  
WITH DIFFUSE TYPE 5 PANELS  
AND VERTICAL LAMP SOCKET ASSEMBLY  
Light Source: 150 WATT PULSE-START CLEAR ED-28  
  
Ballast/Driver: -

**Summary**

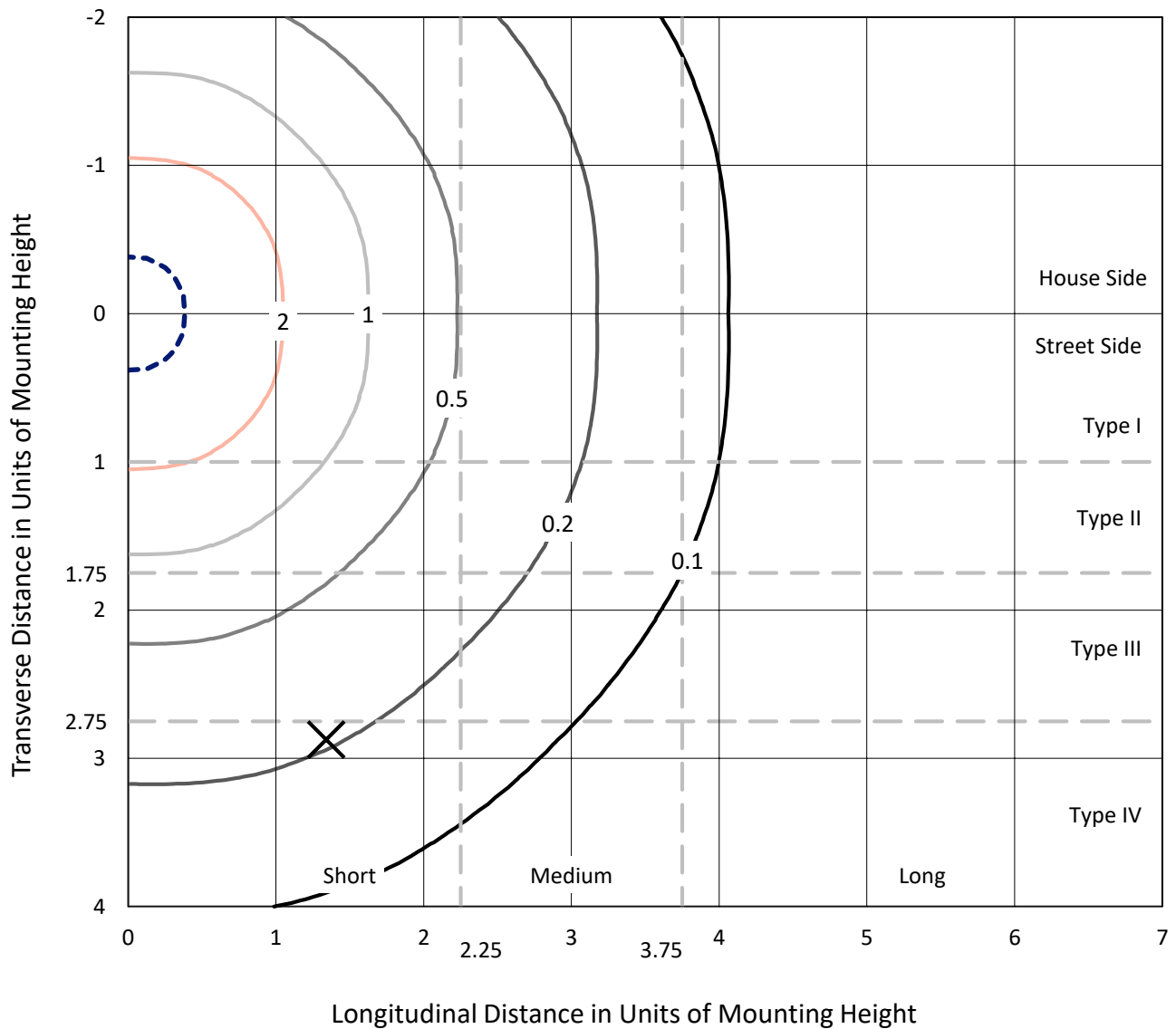
Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 6067.7 lumens  
Efficiency: 43.3%  
Efficacy: 32.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.96' x H: 0.81')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U5 - G3  
  
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P10091\_150MP  
 CATALOG NUMBER: LXF15P55

### Iso-Footcandle Lines of Horizontal Illumination

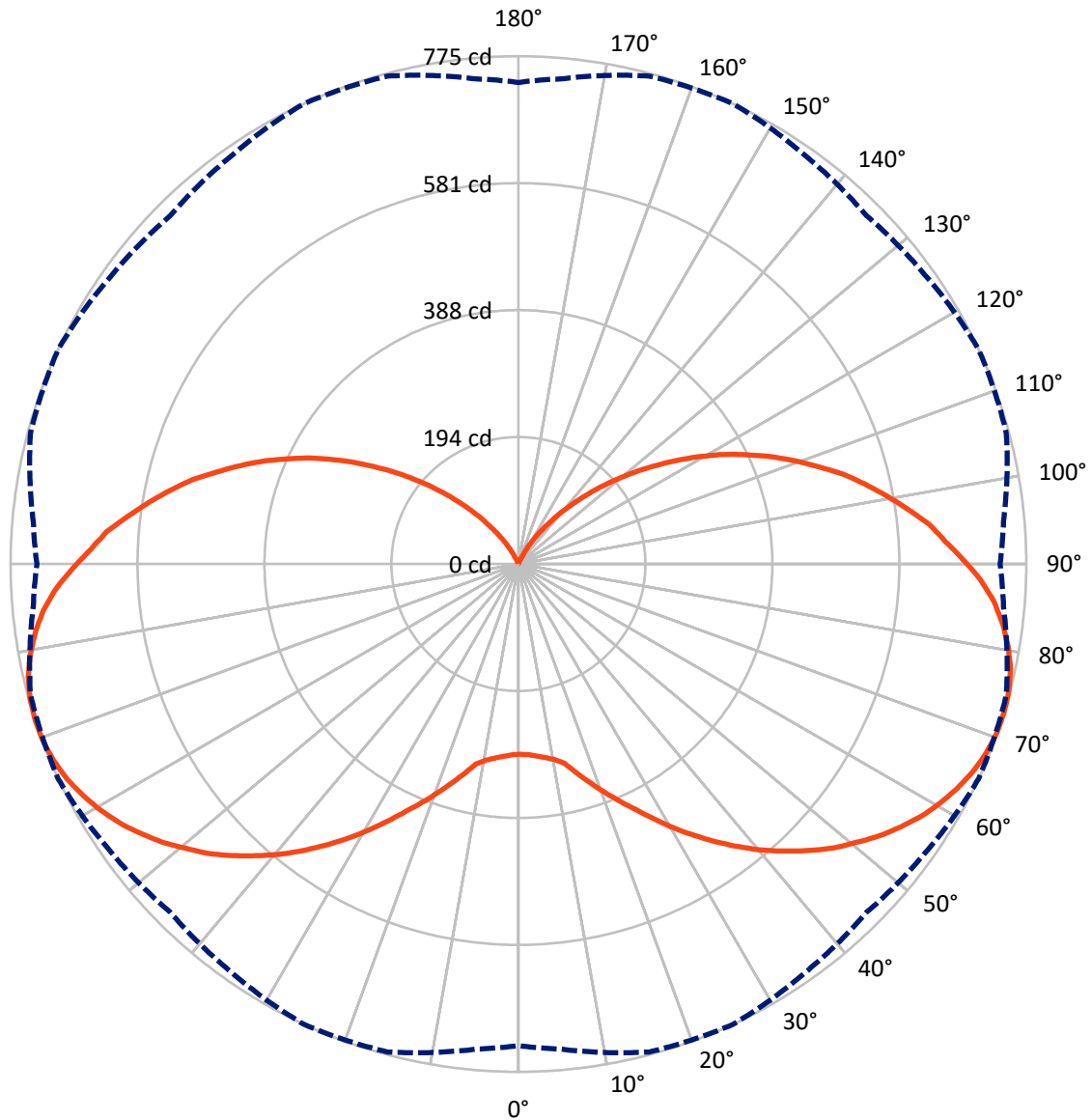
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P10091\_150MP  
CATALOG NUMBER: LXF15P55

### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P10091\_150MP  
 CATALOG NUMBER: LXF15P55

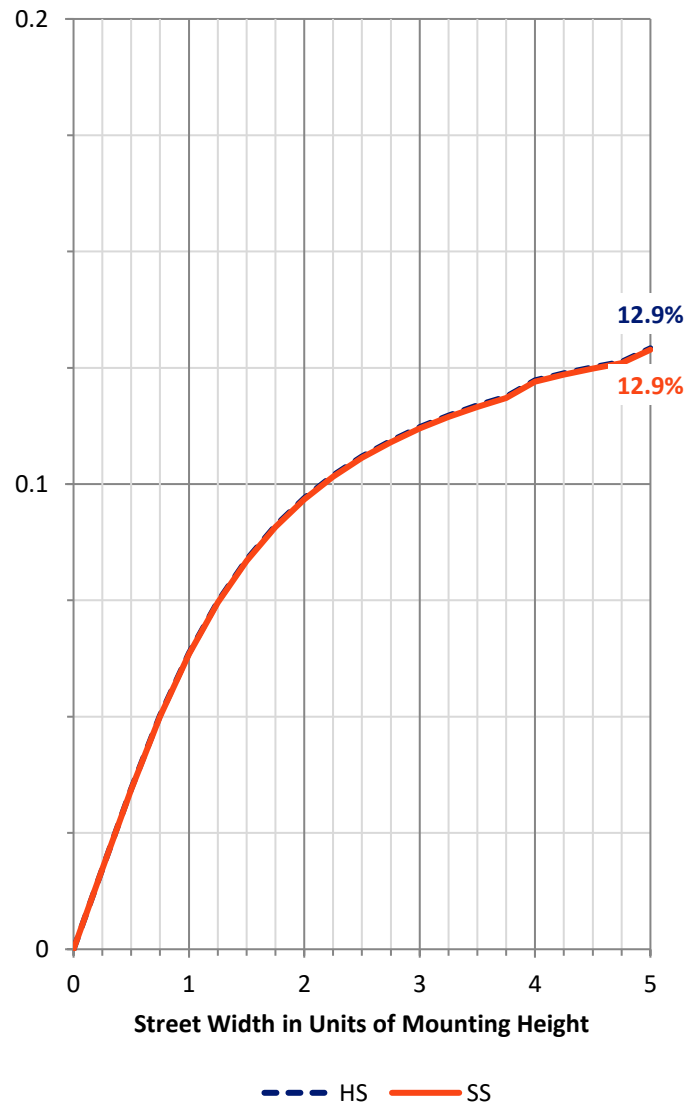
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total  |
|--------------------|--------|----------|--------|--------|
| <b>House Side</b>  | Lumens | 2033.4   | 1000.4 | 3033.8 |
|                    | % Lamp | 14.5     | 7.1    | 21.7   |
| <b>Street Side</b> | Lumens | 2033.4   | 1000.4 | 3033.8 |
|                    | % Lamp | 14.5     | 7.1    | 21.7   |
| <b>Total</b>       | Lumens | 4066.9   | 2000.8 | 6067.7 |
|                    | % Lamp | 29.0     | 14.3   | 43.3   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 28.4   | 0.5       | 0.2    |
| 10°-20°   | 95.5   | 1.6       | 0.7    |
| 20°-30°   | 196.1  | 3.2       | 1.4    |
| 30°-40°   | 327.4  | 5.4       | 2.3    |
| 40°-50°   | 477.4  | 7.9       | 3.4    |
| 50°-60°   | 625.0  | 10.3      | 4.5    |
| 60°-70°   | 742.0  | 12.2      | 5.3    |
| 70°-80°   | 799.9  | 13.2      | 5.7    |
| 80°-90°   | 775.3  | 12.8      | 5.5    |
| 90°-100°  | 672.3  | 11.1      | 4.8    |
| 100°-110° | 534.6  | 8.8       | 3.8    |
| 110°-120° | 384.4  | 6.3       | 2.7    |
| 120°-130° | 239.6  | 3.9       | 1.7    |
| 130°-140° | 121.8  | 2.0       | 0.9    |
| 140°-150° | 42.5   | 0.7       | 0.3    |
| 150°-160° | 5.6    | 0.1       | 0.0    |
| 160°-170° | 0.0    | 0.0       | 0.0    |
| 170°-180° | 0.0    | 0.0       | 0.0    |
| 0°-90°    | 4066.9 | 67.0      | 29.0   |
| 0°-180°   | 6067.7 | 100.0     | 43.3   |

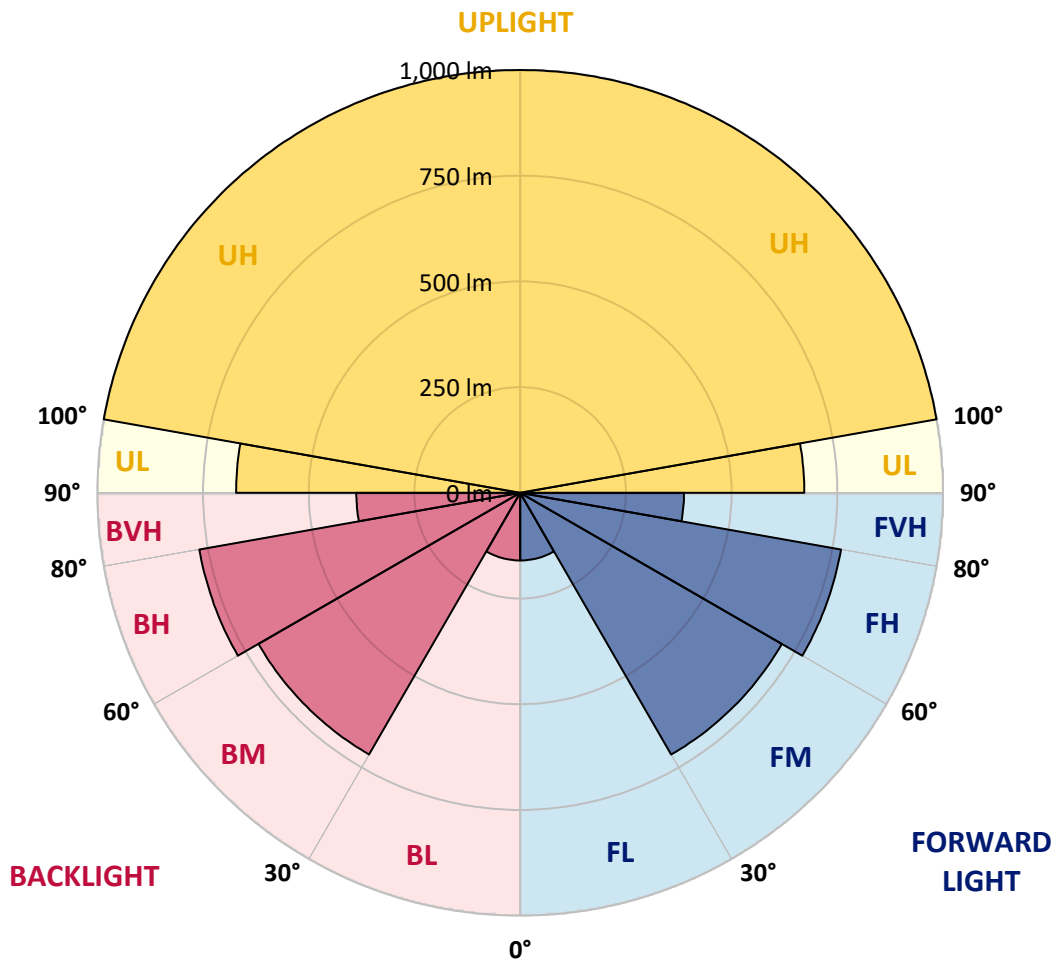


REPORT NUMBER: P10091\_150MP  
 CATALOG NUMBER: LXF15P55

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Lamp | Zone Rating/Lumen Limit |         |         |
|----------------|--------|--------|-------------------------|---------|---------|
|                |        |        | B                       | U       | G       |
| FL (0°-30°)    | 160.0  | 1.1    |                         |         |         |
| FM (30°-60°)   | 714.9  | 5.1    |                         |         |         |
| FH (60°-80°)   | 770.9  | 5.5    |                         |         | G1/1800 |
| FVH (80°-90°)  | 387.6  | 2.8    |                         |         | G3/500  |
| BL (0°-30°)    | 160.0  | 1.1    | B1/500                  |         |         |
| BM (30°-60°)   | 714.9  | 5.1    | B1/1000                 |         |         |
| BH (60°-80°)   | 770.9  | 5.5    | B2/1000                 |         | G1/1800 |
| BVH (80°-90°)  | 387.6  | 2.8    |                         |         | G3/500  |
| UL (90°-100°)  | 672.3  | 4.8    |                         | U4/1000 |         |
| UH (100°-180°) | 1000.4 | 7.1    |                         | U5      |         |
| Trapped Light  | 7932.3 | 56.7   |                         |         |         |

**BUG Rating: B2-U5-G3**  
 Type V Short





REPORT NUMBER: P10091\_150MP  
 CATALOG NUMBER: LXF15P55

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 |
| 2.5°   | 291.3 | 291.3 | 291.3 | 291.3 | 292.4 | 291.3 | 292.4 | 291.3 | 291.3 | 291.3 | 291.3 |
| 5°     | 294.4 | 294.4 | 294.4 | 294.4 | 294.4 | 295.4 | 294.4 | 294.4 | 294.4 | 294.4 | 294.4 |
| 7.5°   | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 |
| 10°    | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 |
| 12.5°  | 317.1 | 317.1 | 315.0 | 311.9 | 309.9 | 309.9 | 309.9 | 311.9 | 315.0 | 317.1 | 317.1 |
| 15°    | 337.6 | 337.6 | 335.6 | 330.4 | 323.2 | 319.1 | 323.2 | 330.4 | 335.6 | 337.6 | 337.6 |
| 17.5°  | 358.2 | 358.2 | 355.1 | 350.0 | 343.8 | 340.7 | 343.8 | 350.0 | 355.1 | 358.2 | 358.2 |
| 20°    | 379.9 | 379.9 | 376.8 | 370.6 | 367.5 | 369.6 | 367.5 | 370.6 | 376.8 | 379.9 | 379.9 |
| 22.5°  | 400.4 | 400.4 | 397.4 | 392.2 | 395.3 | 398.4 | 395.3 | 392.2 | 397.4 | 400.4 | 400.4 |
| 25°    | 423.1 | 422.1 | 419.0 | 414.9 | 423.1 | 427.2 | 423.1 | 414.9 | 419.0 | 422.1 | 423.1 |
| 27.5°  | 443.7 | 443.7 | 439.6 | 440.6 | 450.9 | 455.0 | 450.9 | 440.6 | 439.6 | 443.7 | 443.7 |
| 30°    | 466.3 | 465.3 | 461.2 | 467.4 | 478.7 | 482.8 | 478.7 | 467.4 | 461.2 | 465.3 | 466.3 |
| 32.5°  | 487.9 | 486.9 | 483.8 | 494.1 | 505.4 | 509.6 | 505.4 | 494.1 | 483.8 | 486.9 | 487.9 |
| 35°    | 509.6 | 509.6 | 507.5 | 520.9 | 531.2 | 535.3 | 531.2 | 520.9 | 507.5 | 509.6 | 509.6 |
| 37.5°  | 532.2 | 531.2 | 531.2 | 547.6 | 556.9 | 560.0 | 556.9 | 547.6 | 531.2 | 531.2 | 532.2 |
| 40°    | 554.9 | 553.8 | 555.9 | 574.4 | 582.6 | 584.7 | 582.6 | 574.4 | 555.9 | 553.8 | 554.9 |
| 42.5°  | 576.5 | 575.4 | 581.6 | 599.1 | 606.3 | 608.4 | 606.3 | 599.1 | 581.6 | 575.4 | 576.5 |
| 45°    | 598.1 | 597.1 | 607.4 | 623.8 | 629.0 | 629.0 | 629.0 | 623.8 | 607.4 | 597.1 | 598.1 |
| 47.5°  | 618.7 | 617.6 | 631.0 | 647.5 | 650.6 | 650.6 | 650.6 | 647.5 | 631.0 | 617.6 | 618.7 |
| 50°    | 638.2 | 638.2 | 654.7 | 668.1 | 671.2 | 670.1 | 671.2 | 668.1 | 654.7 | 638.2 | 638.2 |
| 52.5°  | 657.8 | 657.8 | 676.3 | 689.7 | 688.7 | 686.6 | 688.7 | 689.7 | 676.3 | 657.8 | 657.8 |
| 55°    | 674.3 | 675.3 | 696.9 | 708.2 | 706.2 | 703.1 | 706.2 | 708.2 | 696.9 | 675.3 | 674.3 |
| 57.5°  | 689.7 | 692.8 | 715.4 | 725.7 | 720.6 | 716.5 | 720.6 | 725.7 | 715.4 | 692.8 | 689.7 |
| 60°    | 703.1 | 707.2 | 730.9 | 740.1 | 734.0 | 727.8 | 734.0 | 740.1 | 730.9 | 707.2 | 703.1 |
| 62.5°  | 714.4 | 719.6 | 744.3 | 752.5 | 744.3 | 738.1 | 744.3 | 752.5 | 744.3 | 719.6 | 714.4 |
| 65°    | 723.7 | 729.9 | 755.6 | 762.8 | 752.5 | 745.3 | 752.5 | 762.8 | 755.6 | 729.9 | 723.7 |
| 67.5°  | 729.9 | 738.1 | 763.8 | 770.0 | 758.7 | 749.4 | 758.7 | 770.0 | 763.8 | 738.1 | 729.9 |
| 70°    | 732.9 | 742.2 | 769.0 | 774.1 | 760.7 | 752.5 | 760.7 | 774.1 | 769.0 | 742.2 | 732.9 |
| 72.5°  | 735.0 | 743.2 | 771.0 | 775.1 | 761.8 | 751.5 | 761.8 | 775.1 | 771.0 | 743.2 | 735.0 |
| 75°    | 734.0 | 741.2 | 767.9 | 773.1 | 758.7 | 748.4 | 758.7 | 773.1 | 767.9 | 741.2 | 734.0 |
| 77.5°  | 728.8 | 737.1 | 762.8 | 767.9 | 752.5 | 742.2 | 752.5 | 767.9 | 762.8 | 737.1 | 728.8 |
| 80°    | 720.6 | 727.8 | 752.5 | 757.6 | 743.2 | 732.9 | 743.2 | 757.6 | 752.5 | 727.8 | 720.6 |
| 82.5°  | 708.2 | 714.4 | 739.1 | 744.3 | 730.9 | 720.6 | 730.9 | 744.3 | 739.1 | 714.4 | 708.2 |
| 85°    | 691.8 | 697.9 | 721.6 | 727.8 | 714.4 | 705.1 | 714.4 | 727.8 | 721.6 | 697.9 | 691.8 |
| 87.5°  | 670.1 | 676.3 | 697.9 | 706.2 | 694.9 | 686.6 | 694.9 | 706.2 | 697.9 | 676.3 | 670.1 |
| 90°    | 645.4 | 650.6 | 671.2 | 679.4 | 671.2 | 664.0 | 671.2 | 679.4 | 671.2 | 650.6 | 645.4 |
| 92.5°  | 618.7 | 621.8 | 642.4 | 652.6 | 645.4 | 640.3 | 645.4 | 652.6 | 642.4 | 621.8 | 618.7 |
| 95°    | 596.0 | 600.1 | 618.7 | 630.0 | 626.9 | 622.8 | 626.9 | 630.0 | 618.7 | 600.1 | 596.0 |
| 97.5°  | 567.2 | 570.3 | 585.7 | 600.1 | 600.1 | 597.1 | 600.1 | 600.1 | 585.7 | 570.3 | 567.2 |
| 100°   | 540.4 | 541.5 | 555.9 | 571.3 | 575.4 | 573.4 | 575.4 | 571.3 | 555.9 | 541.5 | 540.4 |
| 102.5° | 511.6 | 512.6 | 524.0 | 542.5 | 548.7 | 548.7 | 548.7 | 542.5 | 524.0 | 512.6 | 511.6 |
| 105°   | 484.9 | 484.9 | 493.1 | 513.7 | 522.9 | 525.0 | 522.9 | 513.7 | 493.1 | 484.9 | 484.9 |
| 107.5° | 455.0 | 455.0 | 461.2 | 480.7 | 494.1 | 498.2 | 494.1 | 480.7 | 461.2 | 455.0 | 455.0 |
| 110°   | 428.2 | 427.2 | 431.3 | 449.9 | 465.3 | 470.4 | 465.3 | 449.9 | 431.3 | 427.2 | 428.2 |



REPORT NUMBER: P10091\_150MP

CATALOG NUMBER: LXF15P55

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 401.5 | 399.4 | 401.5 | 419.0 | 434.4 | 441.6 | 434.4 | 419.0 | 401.5 | 399.4 | 401.5 |
| 115°   | 374.7 | 372.6 | 371.6 | 387.1 | 402.5 | 408.7 | 402.5 | 387.1 | 371.6 | 372.6 | 374.7 |
| 117.5° | 350.0 | 347.9 | 343.8 | 356.2 | 369.6 | 373.7 | 369.6 | 356.2 | 343.8 | 347.9 | 350.0 |
| 120°   | 324.3 | 322.2 | 316.0 | 323.2 | 334.6 | 339.7 | 334.6 | 323.2 | 316.0 | 322.2 | 324.3 |
| 122.5° | 297.5 | 295.4 | 286.2 | 291.3 | 301.6 | 306.8 | 301.6 | 291.3 | 286.2 | 295.4 | 297.5 |
| 125°   | 270.7 | 268.7 | 258.4 | 259.4 | 269.7 | 273.8 | 269.7 | 259.4 | 258.4 | 268.7 | 270.7 |
| 127.5° | 245.0 | 242.9 | 232.6 | 229.6 | 237.8 | 240.9 | 237.8 | 229.6 | 232.6 | 242.9 | 245.0 |
| 130°   | 220.3 | 218.2 | 207.9 | 200.7 | 205.9 | 209.0 | 205.9 | 200.7 | 207.9 | 218.2 | 220.3 |
| 132.5° | 195.6 | 194.6 | 183.2 | 172.9 | 175.0 | 178.1 | 175.0 | 172.9 | 183.2 | 194.6 | 195.6 |
| 135°   | 171.9 | 170.9 | 159.6 | 147.2 | 146.2 | 147.2 | 146.2 | 147.2 | 159.6 | 170.9 | 171.9 |
| 137.5° | 148.2 | 147.2 | 137.9 | 122.5 | 117.4 | 118.4 | 117.4 | 122.5 | 137.9 | 147.2 | 148.2 |
| 140°   | 125.6 | 124.6 | 116.3 | 100.9 | 91.6  | 90.6  | 91.6  | 100.9 | 116.3 | 124.6 | 125.6 |
| 142.5° | 104.0 | 102.9 | 94.7  | 79.3  | 67.9  | 65.9  | 67.9  | 79.3  | 94.7  | 102.9 | 104.0 |
| 145°   | 83.4  | 82.4  | 75.1  | 61.8  | 49.4  | 44.3  | 49.4  | 61.8  | 75.1  | 82.4  | 83.4  |
| 147.5° | 64.9  | 63.8  | 57.6  | 46.3  | 31.9  | 24.7  | 31.9  | 46.3  | 57.6  | 63.8  | 64.9  |
| 150°   | 47.4  | 46.3  | 41.2  | 30.9  | 17.5  | 11.3  | 17.5  | 30.9  | 41.2  | 46.3  | 47.4  |
| 152.5° | 30.9  | 29.9  | 25.7  | 17.5  | 8.2   | 3.1   | 8.2   | 17.5  | 25.7  | 29.9  | 30.9  |
| 155°   | 15.4  | 15.4  | 12.4  | 7.2   | 2.1   | 0.0   | 2.1   | 7.2   | 12.4  | 15.4  | 15.4  |
| 157.5° | 5.1   | 5.1   | 3.1   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0   | 3.1   | 5.1   | 5.1   |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)