

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623594

Luminaire Tested: **IFLD-M-SA4A-727-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623594  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

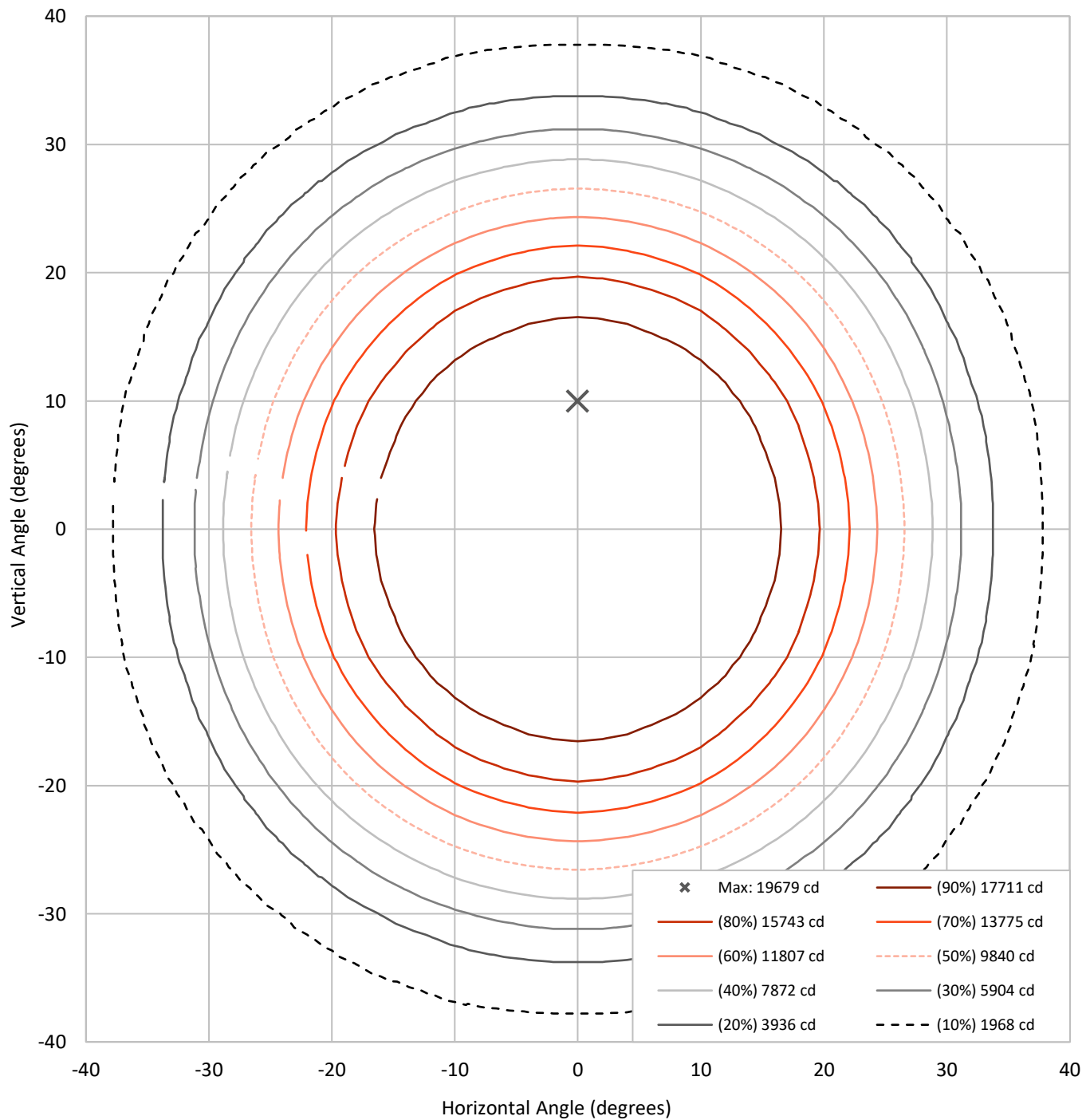
|                   |                                      |                      |                 |
|-------------------|--------------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                                  | NEMA Type:           | 5H x 5V         |
| Luminaire Lumens: | 16103.4 lumens                       | Max Intensity:       | 19679 candela   |
| Efficiency:       | N/A                                  | Max Intensity Angle: | 0°H x 10°V      |
| Efficacy:         | 125.2 lumens/watt                    |                      |                 |
| Luminous Opening: | Rectangular (W 2' x L: 0.5' x H: 0') |                      |                 |
| Beam Angle (50%): | 49.5°H x 53.1°V                      | Field Angle (10%):   | 73.6°H x 75.3°V |
| Beam Lumens:      | 8003.8 lumens                        | Field Lumens:        | 10409.1 lumens  |
| Beam Efficiency:  | 49.7%                                | Field Efficiency:    | 64.6%           |

Input Watts (W): 128.6  
Input Voltage (V): 120  
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: 25 FT



REPORT NUMBER: P623594  
CATALOG NUMBER: IFLD-M-SA4A-727-U-55

## Iso-Candela Plot



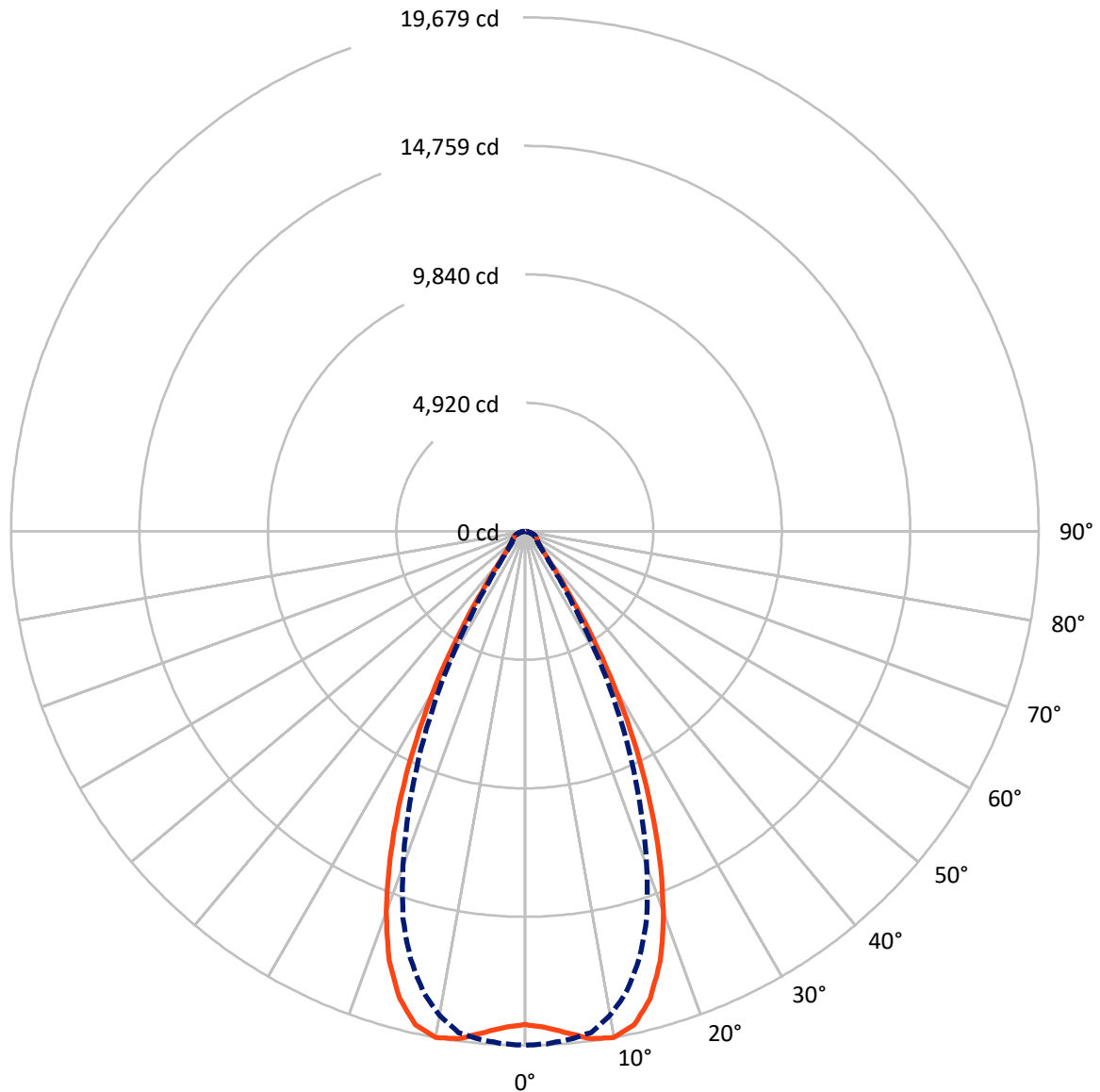
REPORT NUMBER: P623594  
CATALOG NUMBER: IFLD-M-SA4A-727-U-55

## Lumen Table

|     |                            |     |     |      |      |      |       |       |       |       |       |       |      |      |      |     |     |    |    |
|-----|----------------------------|-----|-----|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|-----|-----|----|----|
| 90  |                            |     |     |      |      |      |       |       |       |       |       |       |      |      |      |     |     |    |    |
| 80  | 0.5                        |     | 3.5 |      | 9.2  |      | 14.9  |       | 17.2  |       | 14.9  |       | 9.2  |      | 3.5  |     | 0.5 |    |    |
| 70  | 1.6                        |     | 1.7 | 3.6  | 6.0  | 8.4  | 10.6  | 12.1  | 12.9  | 12.9  | 12.1  | 10.6  | 8.4  | 6.0  | 3.6  | 1.7 | 1.6 |    |    |
| 60  |                            |     | 2.7 | 5.6  | 8.8  | 11.9 | 14.4  | 16.4  | 17.5  | 17.5  | 16.4  | 14.4  | 11.9 | 8.8  | 5.6  | 2.7 |     |    |    |
| 50  | 2.9                        |     | 3.6 | 7.2  | 10.9 | 14.6 | 18.9  | 23.9  | 27.7  | 27.7  | 23.9  | 18.9  | 14.6 | 10.9 | 7.2  | 3.6 | 2.9 |    |    |
| 40  |                            |     | 4.4 | 8.3  | 12.6 | 19.1 | 34.0  | 66.5  | 100.3 | 100.3 | 66.5  | 34.0  | 19.1 | 12.6 | 8.3  | 4.4 |     |    |    |
| 30  | 3.8                        |     | 5.0 | 9.2  | 14.8 | 30.9 | 98.4  | 228.0 | 323.6 | 323.6 | 228.0 | 98.4  | 30.9 | 14.8 | 9.2  | 5.0 | 3.8 |    |    |
| 20  |                            |     | 5.4 | 9.8  | 17.6 | 57.0 | 214.7 | 420.2 | 535.6 | 535.6 | 420.2 | 214.7 | 57.0 | 17.6 | 9.8  | 5.4 |     |    |    |
| 10  | 4.2                        |     | 5.5 | 10.1 | 19.9 | 83.6 | 295.8 | 519.8 | 589.5 | 589.5 | 519.8 | 295.8 | 83.6 | 19.9 | 10.1 | 5.5 | 4.2 |    |    |
| 0   |                            |     | 5.5 | 10.1 | 19.9 | 83.6 | 295.8 | 519.8 | 589.5 | 589.5 | 519.8 | 295.8 | 83.6 | 19.9 | 10.1 | 5.5 |     |    |    |
| -10 | 3.8                        |     | 5.4 | 9.8  | 17.6 | 57.0 | 214.7 | 420.2 | 535.6 | 535.6 | 420.2 | 214.7 | 57.0 | 17.6 | 9.8  | 5.4 | 3.8 |    |    |
| -20 |                            |     | 5.0 | 9.2  | 14.8 | 30.9 | 98.4  | 228.0 | 323.6 | 323.6 | 228.0 | 98.4  | 30.9 | 14.8 | 9.2  | 5.0 |     |    |    |
| -30 | 2.9                        |     | 4.4 | 8.3  | 12.6 | 19.1 | 34.0  | 66.5  | 100.3 | 100.3 | 66.5  | 34.0  | 19.1 | 12.6 | 8.3  | 4.4 | 2.9 |    |    |
| -40 |                            |     | 3.6 | 7.2  | 10.9 | 14.6 | 18.9  | 23.9  | 27.7  | 27.7  | 23.9  | 18.9  | 14.6 | 10.9 | 7.2  | 3.6 |     |    |    |
| -50 | 1.6                        |     | 2.7 | 5.6  | 8.8  | 11.9 | 14.4  | 16.4  | 17.5  | 17.5  | 16.4  | 14.4  | 11.9 | 8.8  | 5.6  | 2.7 | 1.6 |    |    |
| -60 |                            |     | 1.7 | 3.6  | 6.0  | 8.4  | 10.6  | 12.1  | 12.9  | 12.9  | 12.1  | 10.6  | 8.4  | 6.0  | 3.6  | 1.7 |     |    |    |
| -70 |                            |     |     |      |      |      |       |       |       |       |       |       |      |      |      |     |     |    |    |
| -80 | 0.5                        |     | 3.5 |      | 9.2  |      | 14.9  |       | 17.2  |       | 14.9  |       | 9.2  |      | 3.5  |     | 0.5 |    |    |
| -90 |                            |     |     |      |      |      |       |       |       |       |       |       |      |      |      |     |     |    |    |
|     | -90                        | -80 | -70 | -60  | -50  | -40  | -30   | -20   | -10   | 0     | 10    | 20    | 30   | 40   | 50   | 60  | 70  | 80 | 90 |
|     | Horizontal Angle (degrees) |     |     |      |      |      |       |       |       |       |       |       |      |      |      |     |     |    |    |

REPORT NUMBER: P623594  
CATALOG NUMBER: IFLD-M-SA4A-727-U-55

## Luminous Intensity Polar Plot

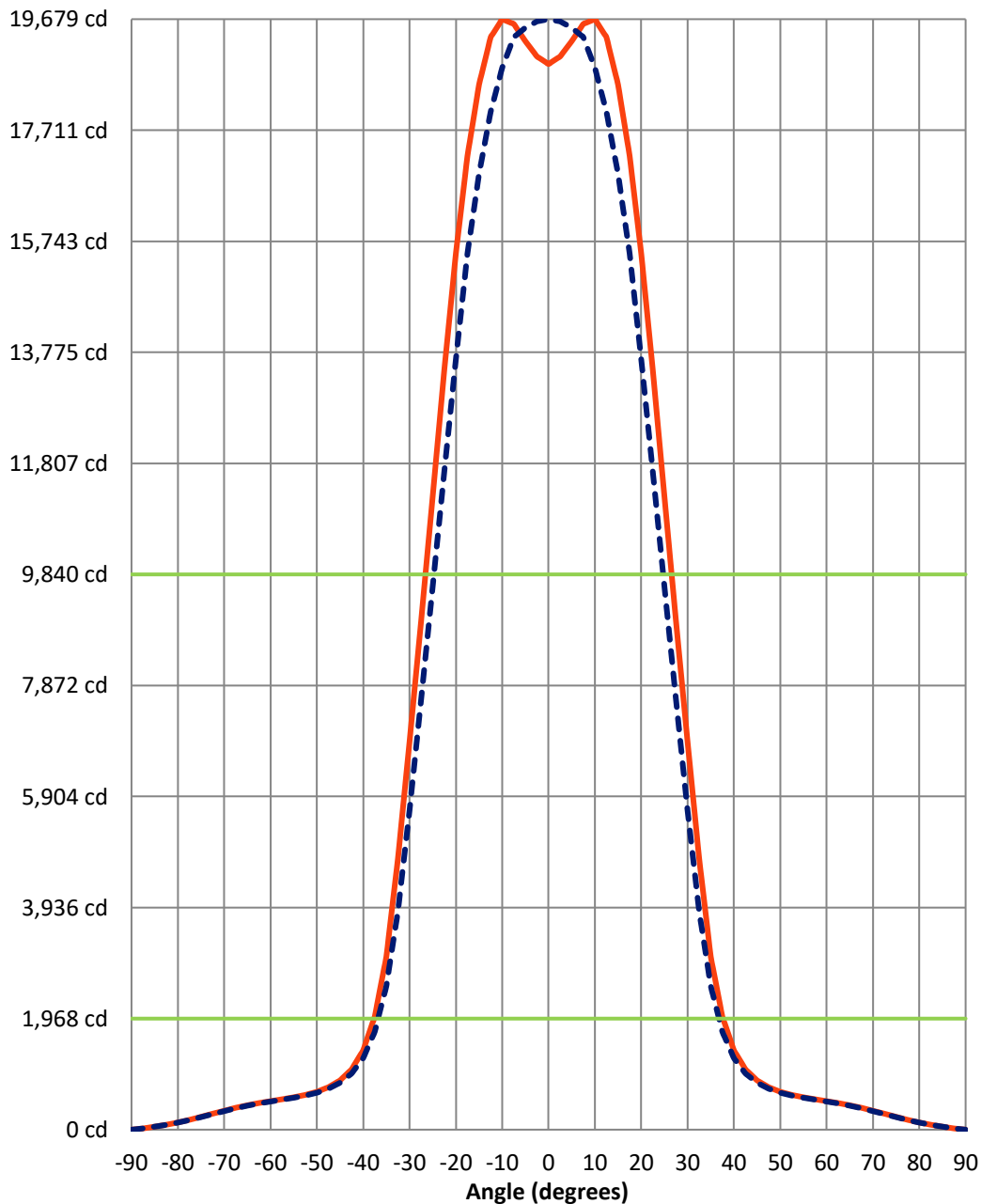


— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P623594

CATALOG NUMBER: IFLD-M-SA4A-727-U-55

## Luminous Intensity Plot



### Beam:

H Angle: 49.5°  
V Angle: 53.1°  
Lumens: 8003.8  
Efficiency: 49.7%

### Field:

H Angle: 73.6°  
V Angle: 75.3°  
Lumens: 10409.1  
Efficiency: 64.6%

### Spill:

Lumens: 5694.2  
Efficiency: 35.4%

— Vertical Distribution through 0-Deg

- - - Horizontal Distribution through 10-Deg

REPORT NUMBER: P623594

CATALOG NUMBER: IFLD-M-SA4A-727-U-55

FIELD  
BEAM

**CANDELA DISTRIBUTION:**

|       | 0°      | 2.5°    | 5°      | 7.5°    | 10°     | 12.5°   | 15°     | 17.5°   | 20°     | 22.5°   | 25°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 21.7    | 21.7    | 21.7    | 21.7    | 21.7    | 21.7    | 21.7    | 20.1    | 20.1    | 20.1    | 20.1    |
| 85°   | 53.5    | 53.5    | 53.5    | 53.5    | 53.5    | 51.9    | 51.9    | 50.2    | 50.2    | 48.5    | 46.8    |
| 82.5° | 87.0    | 87.0    | 87.0    | 87.0    | 85.3    | 85.3    | 83.6    | 82.0    | 80.3    | 78.6    | 76.9    |
| 80°   | 127.1   | 127.1   | 127.1   | 127.1   | 125.5   | 123.8   | 122.1   | 120.4   | 117.1   | 115.4   | 112.1   |
| 77.5° | 174.0   | 174.0   | 174.0   | 172.3   | 170.6   | 169.0   | 165.6   | 162.3   | 158.9   | 155.6   | 152.2   |
| 75°   | 227.5   | 227.5   | 227.5   | 224.2   | 222.5   | 219.1   | 215.8   | 212.4   | 207.4   | 202.4   | 197.4   |
| 72.5° | 282.7   | 282.7   | 282.7   | 279.4   | 276.0   | 272.7   | 269.3   | 264.3   | 259.3   | 252.6   | 245.9   |
| 70°   | 334.6   | 334.6   | 334.6   | 331.2   | 327.9   | 324.5   | 319.5   | 314.5   | 307.8   | 301.1   | 294.4   |
| 67.5° | 388.1   | 388.1   | 388.1   | 383.1   | 379.7   | 376.4   | 371.4   | 364.7   | 358.0   | 349.6   | 341.3   |
| 65°   | 431.6   | 431.6   | 429.9   | 428.2   | 424.9   | 419.9   | 416.5   | 409.8   | 403.1   | 396.5   | 388.1   |
| 62.5° | 471.7   | 471.7   | 470.1   | 468.4   | 465.0   | 460.0   | 455.0   | 450.0   | 443.3   | 434.9   | 426.6   |
| 60°   | 505.2   | 505.2   | 503.5   | 501.8   | 498.5   | 495.2   | 490.1   | 485.1   | 478.4   | 471.7   | 463.4   |
| 57.5° | 538.6   | 538.6   | 537.0   | 535.3   | 532.0   | 526.9   | 521.9   | 516.9   | 510.2   | 501.8   | 493.5   |
| 55°   | 573.8   | 573.8   | 572.1   | 568.8   | 565.4   | 560.4   | 555.4   | 548.7   | 540.3   | 532.0   | 523.6   |
| 52.5° | 615.6   | 615.6   | 612.2   | 608.9   | 603.9   | 598.9   | 590.5   | 582.1   | 572.1   | 562.1   | 552.0   |
| 50°   | 670.8   | 670.8   | 667.5   | 662.4   | 654.1   | 645.7   | 635.7   | 622.3   | 610.6   | 597.2   | 583.8   |
| 47.5° | 752.8   | 752.8   | 746.1   | 737.7   | 726.0   | 712.6   | 694.2   | 674.1   | 657.4   | 640.7   | 620.6   |
| 45°   | 873.2   | 873.2   | 863.2   | 849.8   | 831.4   | 808.0   | 781.2   | 752.8   | 724.3   | 695.9   | 667.5   |
| 42.5° | 1068.9  | 1068.9  | 1050.5  | 1027.1  | 995.3   | 955.2   | 905.0   | 858.2   | 818.0   | 772.8   | 734.4   |
| 40°   | 1406.8  | 1406.8  | 1371.7  | 1328.2  | 1268.0  | 1191.0  | 1099.0  | 1025.4  | 955.2   | 876.6   | 823.0   |
| 37.5° | 2007.4  | 2007.4  | 1938.8  | 1855.2  | 1738.1  | 1590.8  | 1413.5  | 1294.8  | 1164.3  | 1040.5  | 950.2   |
| 35°   | 3067.9  | 3067.9  | 2935.8  | 2773.5  | 2547.7  | 2263.3  | 1960.5  | 1736.4  | 1487.1  | 1296.4  | 1127.5  |
| 32.5° | 4807.7  | 4807.7  | 4570.1  | 4277.4  | 3874.2  | 3364.0  | 2878.9  | 2452.3  | 2007.4  | 1691.2  | 1386.8  |
| 30°   | 6875.3  | 6875.3  | 6564.1  | 6181.0  | 5655.8  | 4993.3  | 4302.5  | 3544.7  | 2842.1  | 2278.4  | 1818.3  |
| 27.5° | 9013.1  | 8924.5  | 8656.8  | 8220.2  | 7621.3  | 6875.3  | 6013.8  | 5035.2  | 4085.0  | 3091.4  | 2433.9  |
| 25°   | 11224.6 | 11120.9 | 10814.7 | 10312.9 | 9627.0  | 8782.3  | 7812.0  | 6718.0  | 5545.4  | 4361.0  | 3223.5  |
| 22.5° | 13459.5 | 13342.4 | 12994.4 | 12427.3 | 11657.8 | 10711.0 | 9612.0  | 8395.9  | 7086.0  | 5717.7  | 4361.0  |
| 20°   | 15525.4 | 15401.6 | 15036.9 | 14446.4 | 13650.2 | 12611.3 | 11390.2 | 10041.9 | 8593.2  | 7086.0  | 5545.4  |
| 17.5° | 17255.1 | 17136.3 | 16785.0 | 16221.3 | 15525.4 | 14376.2 | 13106.5 | 11624.4 | 10041.9 | 8395.9  | 6718.0  |
| 15°   | 18518.0 | 18416.0 | 18116.6 | 17643.2 | 16933.9 | 15916.8 | 14623.7 | 13106.5 | 11390.2 | 9612.0  | 7812.0  |
| 12.5° | 19356.1 | 19274.2 | 19038.3 | 18670.3 | 18034.6 | 17181.5 | 15916.8 | 14376.2 | 12611.3 | 10711.0 | 8782.3  |
| 10°   | 19679.0 | 19638.8 | 19528.4 | 19359.5 | 18817.5 | 18034.6 | 16933.9 | 15525.4 | 13650.2 | 11657.8 | 9627.0  |
| 7.5°  | 19593.7 | 19607.0 | 19645.5 | 19602.0 | 19359.5 | 18670.3 | 17643.2 | 16221.3 | 14446.4 | 12427.3 | 10312.9 |
| 5°    | 19289.2 | 19361.1 | 19540.1 | 19645.5 | 19528.4 | 19038.3 | 18116.6 | 16785.0 | 15036.9 | 12994.4 | 10814.7 |
| 2.5°  | 19018.2 | 19130.3 | 19361.1 | 19607.0 | 19638.8 | 19274.2 | 18416.0 | 17136.3 | 15401.6 | 13342.4 | 11120.9 |
| 0°    | 18884.4 | 19018.2 | 19289.2 | 19593.7 | 19679.0 | 19356.1 | 18518.0 | 17255.1 | 15525.4 | 13459.5 | 11224.6 |

REPORT NUMBER: P623594

CATALOG NUMBER: IFLD-M-SA4A-727-U-55

**CANDELA DISTRIBUTION (continued):**

|       | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°   | 47.5° | 50°   | 52.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 20.1   | 18.4   | 18.4   | 18.4   | 16.7   | 16.7   | 16.7   | 15.1  | 15.1  | 13.4  | 13.4  |
| 85°   | 46.8   | 45.2   | 43.5   | 41.8   | 40.1   | 38.5   | 36.8   | 35.1  | 33.5  | 30.1  | 28.4  |
| 82.5° | 75.3   | 73.6   | 71.9   | 68.6   | 66.9   | 63.6   | 60.2   | 56.9  | 53.5  | 51.9  | 48.5  |
| 80°   | 108.7  | 105.4  | 102.0  | 98.7   | 93.7   | 88.7   | 85.3   | 80.3  | 76.9  | 71.9  | 68.6  |
| 77.5° | 147.2  | 142.2  | 137.2  | 130.5  | 125.5  | 120.4  | 113.8  | 108.7 | 102.0 | 95.4  | 88.7  |
| 75°   | 190.7  | 184.0  | 175.6  | 169.0  | 162.3  | 153.9  | 145.5  | 137.2 | 128.8 | 120.4 | 112.1 |
| 72.5° | 237.5  | 229.2  | 220.8  | 212.4  | 202.4  | 190.7  | 180.7  | 169.0 | 158.9 | 148.9 | 137.2 |
| 70°   | 286.1  | 276.0  | 266.0  | 255.9  | 244.2  | 230.8  | 219.1  | 205.8 | 192.4 | 179.0 | 165.6 |
| 67.5° | 331.2  | 321.2  | 309.5  | 299.4  | 286.1  | 272.7  | 257.6  | 242.6 | 227.5 | 210.8 | 194.0 |
| 65°   | 378.1  | 366.3  | 353.0  | 339.6  | 326.2  | 311.1  | 296.1  | 281.0 | 262.6 | 244.2 | 227.5 |
| 62.5° | 416.5  | 406.5  | 394.8  | 381.4  | 366.3  | 349.6  | 334.6  | 314.5 | 296.1 | 277.7 | 255.9 |
| 60°   | 453.3  | 441.6  | 431.6  | 416.5  | 403.1  | 388.1  | 369.7  | 349.6 | 329.5 | 307.8 | 287.7 |
| 57.5° | 485.1  | 475.1  | 463.4  | 450.0  | 434.9  | 419.9  | 403.1  | 384.7 | 361.3 | 339.6 | 316.2 |
| 55°   | 513.6  | 501.8  | 490.1  | 478.4  | 465.0  | 448.3  | 431.6  | 413.2 | 393.1 | 369.7 | 344.6 |
| 52.5° | 542.0  | 530.3  | 516.9  | 505.2  | 490.1  | 475.1  | 458.4  | 439.9 | 419.9 | 398.1 | 371.4 |
| 50°   | 570.4  | 557.0  | 543.7  | 528.6  | 513.6  | 498.5  | 481.8  | 465.0 | 443.3 | 421.5 | 398.1 |
| 47.5° | 603.9  | 587.2  | 570.4  | 553.7  | 538.6  | 520.2  | 503.5  | 485.1 | 466.7 | 443.3 | 419.9 |
| 45°   | 645.7  | 620.6  | 600.5  | 580.5  | 562.1  | 543.7  | 523.6  | 505.2 | 485.1 | 465.0 | 439.9 |
| 42.5° | 697.6  | 664.1  | 637.3  | 610.6  | 587.2  | 565.4  | 545.3  | 523.6 | 503.5 | 481.8 | 458.4 |
| 40°   | 767.8  | 722.7  | 679.2  | 645.7  | 615.6  | 588.8  | 565.4  | 543.7 | 520.2 | 498.5 | 475.1 |
| 37.5° | 859.8  | 796.3  | 736.0  | 687.5  | 649.1  | 615.6  | 587.2  | 562.1 | 538.6 | 513.6 | 490.1 |
| 35°   | 998.7  | 888.3  | 811.3  | 741.1  | 687.5  | 645.7  | 610.6  | 580.5 | 553.7 | 528.6 | 505.2 |
| 32.5° | 1194.4 | 1023.8 | 900.0  | 811.3  | 736.0  | 679.2  | 637.3  | 600.5 | 570.4 | 543.7 | 516.9 |
| 30°   | 1452.0 | 1216.1 | 1023.8 | 888.3  | 796.3  | 722.7  | 664.1  | 620.6 | 587.2 | 557.0 | 530.3 |
| 27.5° | 1860.2 | 1452.0 | 1194.4 | 998.7  | 859.8  | 767.8  | 697.6  | 645.7 | 603.9 | 570.4 | 542.0 |
| 25°   | 2433.9 | 1818.3 | 1386.8 | 1127.5 | 950.2  | 823.0  | 734.4  | 667.5 | 620.6 | 583.8 | 552.0 |
| 22.5° | 3091.4 | 2278.4 | 1691.2 | 1296.4 | 1040.5 | 876.6  | 772.8  | 695.9 | 640.7 | 597.2 | 562.1 |
| 20°   | 4085.0 | 2842.1 | 2007.4 | 1487.1 | 1164.3 | 955.2  | 818.0  | 724.3 | 657.4 | 610.6 | 572.1 |
| 17.5° | 5035.2 | 3544.7 | 2452.3 | 1736.4 | 1294.8 | 1025.4 | 858.2  | 752.8 | 674.1 | 622.3 | 582.1 |
| 15°   | 6013.8 | 4302.5 | 2878.9 | 1960.5 | 1413.5 | 1099.0 | 905.0  | 781.2 | 694.2 | 635.7 | 590.5 |
| 12.5° | 6875.3 | 4993.3 | 3364.0 | 2263.3 | 1590.8 | 1191.0 | 955.2  | 808.0 | 712.6 | 645.7 | 598.9 |
| 10°   | 7621.3 | 5655.8 | 3874.2 | 2547.7 | 1738.1 | 1268.0 | 995.3  | 831.4 | 726.0 | 654.1 | 603.9 |
| 7.5°  | 8220.2 | 6181.0 | 4277.4 | 2773.5 | 1855.2 | 1328.2 | 1027.1 | 849.8 | 737.7 | 662.4 | 608.9 |
| 5°    | 8656.8 | 6564.1 | 4570.1 | 2935.8 | 1938.8 | 1371.7 | 1050.5 | 863.2 | 746.1 | 667.5 | 612.2 |
| 2.5°  | 8924.5 | 6875.3 | 4807.7 | 3067.9 | 2007.4 | 1406.8 | 1068.9 | 873.2 | 752.8 | 670.8 | 615.6 |
| 0°    | 9013.1 | 6875.3 | 4807.7 | 3067.9 | 2007.4 | 1406.8 | 1068.9 | 873.2 | 752.8 | 670.8 | 615.6 |

REPORT NUMBER: P623594

CATALOG NUMBER: IFLD-M-SA4A-727-U-55

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 11.7  | 11.7  | 10.0  | 10.0  | 8.4   | 8.4   | 6.7   | 6.7   | 5.0   | 5.0   | 3.3   |
| 85°   | 26.8  | 23.4  | 21.7  | 20.1  | 18.4  | 16.7  | 15.1  | 13.4  | 11.7  | 10.0  | 8.4   |
| 82.5° | 45.2  | 41.8  | 36.8  | 33.5  | 30.1  | 26.8  | 21.7  | 20.1  | 16.7  | 13.4  | 11.7  |
| 80°   | 63.6  | 58.5  | 53.5  | 48.5  | 43.5  | 38.5  | 33.5  | 28.4  | 23.4  | 18.4  | 15.1  |
| 77.5° | 82.0  | 75.3  | 70.3  | 63.6  | 56.9  | 50.2  | 43.5  | 36.8  | 30.1  | 23.4  | 18.4  |
| 75°   | 103.7 | 95.4  | 87.0  | 78.6  | 70.3  | 61.9  | 55.2  | 46.8  | 38.5  | 30.1  | 23.4  |
| 72.5° | 127.1 | 115.4 | 105.4 | 95.4  | 83.6  | 75.3  | 65.2  | 56.9  | 46.8  | 36.8  | 28.4  |
| 70°   | 152.2 | 138.8 | 125.5 | 112.1 | 100.4 | 87.0  | 76.9  | 65.2  | 55.2  | 43.5  | 33.5  |
| 67.5° | 177.3 | 162.3 | 147.2 | 130.5 | 115.4 | 102.0 | 87.0  | 75.3  | 61.9  | 50.2  | 38.5  |
| 65°   | 207.4 | 187.4 | 169.0 | 150.6 | 132.2 | 115.4 | 100.4 | 83.6  | 70.3  | 56.9  | 43.5  |
| 62.5° | 235.9 | 214.1 | 192.4 | 170.6 | 150.6 | 130.5 | 112.1 | 95.4  | 78.6  | 63.6  | 48.5  |
| 60°   | 264.3 | 240.9 | 215.8 | 192.4 | 169.0 | 147.2 | 125.5 | 105.4 | 87.0  | 70.3  | 53.5  |
| 57.5° | 292.7 | 266.0 | 240.9 | 214.1 | 187.4 | 162.3 | 138.8 | 115.4 | 95.4  | 75.3  | 58.5  |
| 55°   | 317.8 | 292.7 | 264.3 | 235.9 | 207.4 | 177.3 | 152.2 | 127.1 | 103.7 | 82.0  | 63.6  |
| 52.5° | 344.6 | 316.2 | 287.7 | 255.9 | 227.5 | 194.0 | 165.6 | 137.2 | 112.1 | 88.7  | 68.6  |
| 50°   | 369.7 | 339.6 | 307.8 | 277.7 | 244.2 | 210.8 | 179.0 | 148.9 | 120.4 | 95.4  | 71.9  |
| 47.5° | 393.1 | 361.3 | 329.5 | 296.1 | 262.6 | 227.5 | 192.4 | 158.9 | 128.8 | 102.0 | 76.9  |
| 45°   | 413.2 | 384.7 | 349.6 | 314.5 | 281.0 | 242.6 | 205.8 | 169.0 | 137.2 | 108.7 | 80.3  |
| 42.5° | 431.6 | 403.1 | 369.7 | 334.6 | 296.1 | 257.6 | 219.1 | 180.7 | 145.5 | 113.8 | 85.3  |
| 40°   | 448.3 | 419.9 | 388.1 | 349.6 | 311.1 | 272.7 | 230.8 | 190.7 | 153.9 | 120.4 | 88.7  |
| 37.5° | 465.0 | 434.9 | 403.1 | 366.3 | 326.2 | 286.1 | 244.2 | 202.4 | 162.3 | 125.5 | 93.7  |
| 35°   | 478.4 | 450.0 | 416.5 | 381.4 | 339.6 | 299.4 | 255.9 | 212.4 | 169.0 | 130.5 | 98.7  |
| 32.5° | 490.1 | 463.4 | 431.6 | 394.8 | 353.0 | 309.5 | 266.0 | 220.8 | 175.6 | 137.2 | 102.0 |
| 30°   | 501.8 | 475.1 | 441.6 | 406.5 | 366.3 | 321.2 | 276.0 | 229.2 | 184.0 | 142.2 | 105.4 |
| 27.5° | 513.6 | 485.1 | 453.3 | 416.5 | 378.1 | 331.2 | 286.1 | 237.5 | 190.7 | 147.2 | 108.7 |
| 25°   | 523.6 | 493.5 | 463.4 | 426.6 | 388.1 | 341.3 | 294.4 | 245.9 | 197.4 | 152.2 | 112.1 |
| 22.5° | 532.0 | 501.8 | 471.7 | 434.9 | 396.5 | 349.6 | 301.1 | 252.6 | 202.4 | 155.6 | 115.4 |
| 20°   | 540.3 | 510.2 | 478.4 | 443.3 | 403.1 | 358.0 | 307.8 | 259.3 | 207.4 | 158.9 | 117.1 |
| 17.5° | 548.7 | 516.9 | 485.1 | 450.0 | 409.8 | 364.7 | 314.5 | 264.3 | 212.4 | 162.3 | 120.4 |
| 15°   | 555.4 | 521.9 | 490.1 | 455.0 | 416.5 | 371.4 | 319.5 | 269.3 | 215.8 | 165.6 | 122.1 |
| 12.5° | 560.4 | 526.9 | 495.2 | 460.0 | 419.9 | 376.4 | 324.5 | 272.7 | 219.1 | 169.0 | 123.8 |
| 10°   | 565.4 | 532.0 | 498.5 | 465.0 | 424.9 | 379.7 | 327.9 | 276.0 | 222.5 | 170.6 | 125.5 |
| 7.5°  | 568.8 | 535.3 | 501.8 | 468.4 | 428.2 | 383.1 | 331.2 | 279.4 | 224.2 | 172.3 | 127.1 |
| 5°    | 572.1 | 537.0 | 503.5 | 470.1 | 429.9 | 388.1 | 334.6 | 282.7 | 227.5 | 174.0 | 127.1 |
| 2.5°  | 573.8 | 538.6 | 505.2 | 471.7 | 431.6 | 388.1 | 334.6 | 282.7 | 227.5 | 174.0 | 127.1 |
| 0°    | 573.8 | 538.6 | 505.2 | 471.7 | 431.6 | 388.1 | 334.6 | 282.7 | 227.5 | 174.0 | 127.1 |

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|       | 82.5° | 85°  | 87.5° | 90° |
|-------|-------|------|-------|-----|
| 90°   | 0.0   | 0.0  | 0.0   | 0.0 |
| 87.5° | 3.3   | 1.7  | 1.7   | 0.0 |
| 85°   | 5.0   | 3.3  | 1.7   | 0.0 |
| 82.5° | 8.4   | 5.0  | 3.3   | 0.0 |
| 80°   | 11.7  | 8.4  | 3.3   | 0.0 |
| 77.5° | 13.4  | 10.0 | 5.0   | 0.0 |
| 75°   | 16.7  | 11.7 | 5.0   | 0.0 |
| 72.5° | 20.1  | 13.4 | 6.7   | 0.0 |
| 70°   | 21.7  | 15.1 | 6.7   | 0.0 |
| 67.5° | 26.8  | 16.7 | 8.4   | 0.0 |
| 65°   | 30.1  | 18.4 | 8.4   | 0.0 |
| 62.5° | 33.5  | 20.1 | 10.0  | 0.0 |
| 60°   | 36.8  | 21.7 | 10.0  | 0.0 |
| 57.5° | 41.8  | 23.4 | 11.7  | 0.0 |
| 55°   | 45.2  | 26.8 | 11.7  | 0.0 |
| 52.5° | 48.5  | 28.4 | 13.4  | 0.0 |
| 50°   | 51.9  | 30.1 | 13.4  | 0.0 |
| 47.5° | 53.5  | 33.5 | 15.1  | 0.0 |
| 45°   | 56.9  | 35.1 | 15.1  | 0.0 |
| 42.5° | 60.2  | 36.8 | 16.7  | 0.0 |
| 40°   | 63.6  | 38.5 | 16.7  | 0.0 |
| 37.5° | 66.9  | 40.1 | 16.7  | 0.0 |
| 35°   | 68.6  | 41.8 | 18.4  | 0.0 |
| 32.5° | 71.9  | 43.5 | 18.4  | 0.0 |
| 30°   | 73.6  | 45.2 | 18.4  | 0.0 |
| 27.5° | 75.3  | 46.8 | 20.1  | 0.0 |
| 25°   | 76.9  | 46.8 | 20.1  | 0.0 |
| 22.5° | 78.6  | 48.5 | 20.1  | 0.0 |
| 20°   | 80.3  | 50.2 | 20.1  | 0.0 |
| 17.5° | 82.0  | 50.2 | 20.1  | 0.0 |
| 15°   | 83.6  | 51.9 | 21.7  | 0.0 |
| 12.5° | 85.3  | 51.9 | 21.7  | 0.0 |
| 10°   | 85.3  | 53.5 | 21.7  | 0.0 |
| 7.5°  | 87.0  | 53.5 | 21.7  | 0.0 |
| 5°    | 87.0  | 53.5 | 21.7  | 0.0 |
| 2.5°  | 87.0  | 53.5 | 21.7  | 0.0 |
| 0°    | 87.0  | 53.5 | 21.7  | 0.0 |

(END OF REPORT)