

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P300635

Luminaire Tested: **GAA-AF-06-LED-U-AFL-7060-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-AFL-7060-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive  
Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26476.6 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 333  
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

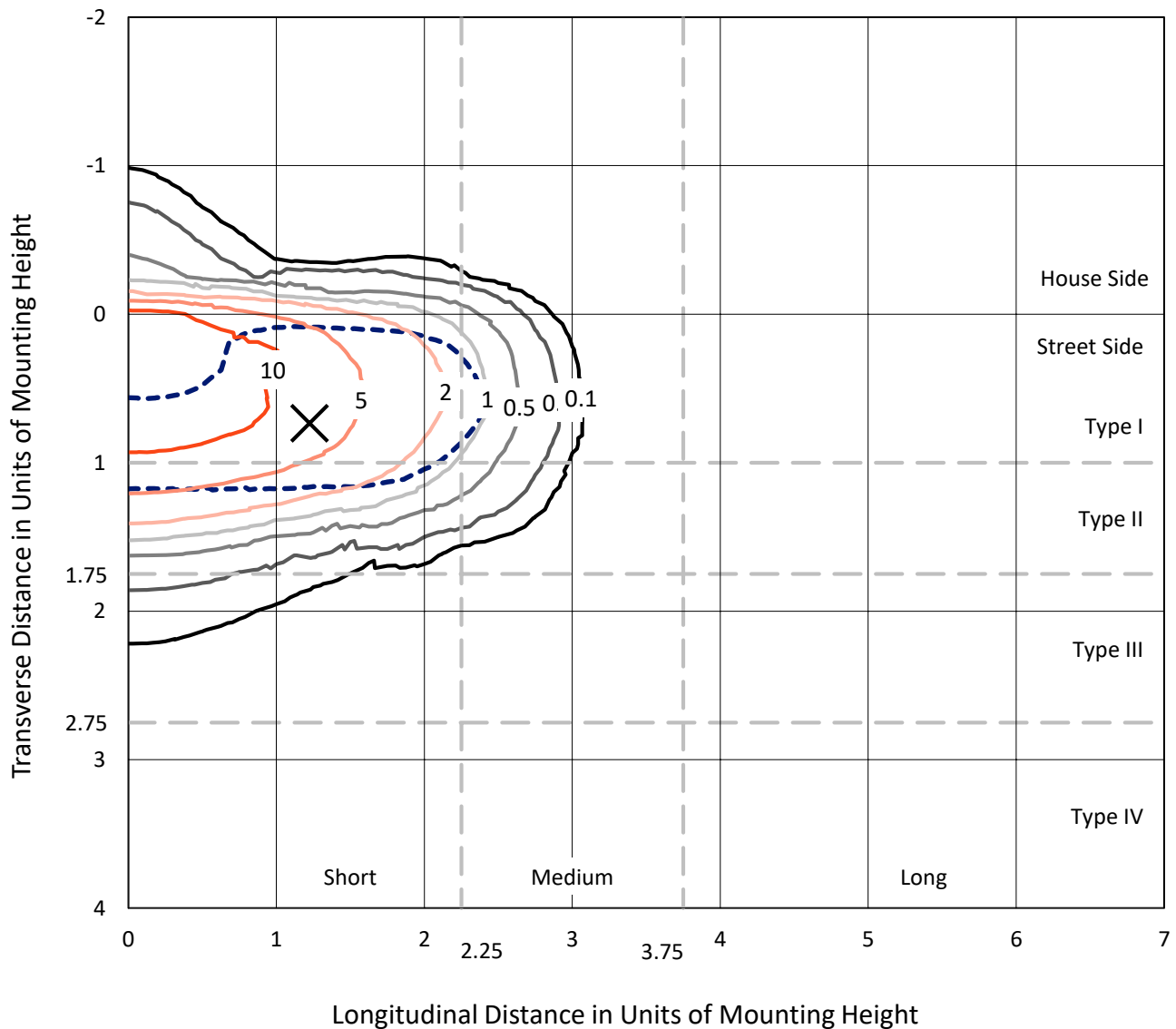


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

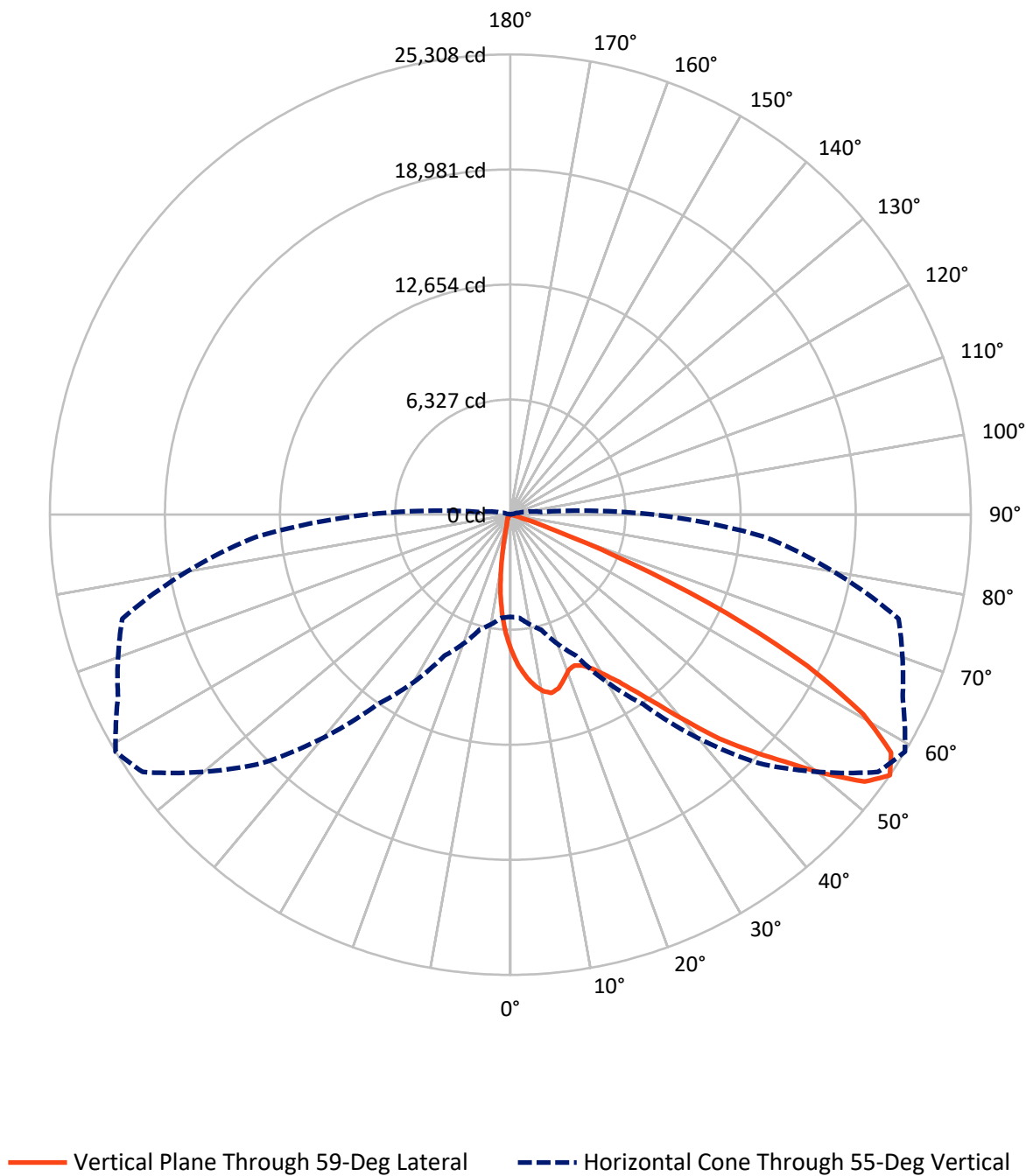


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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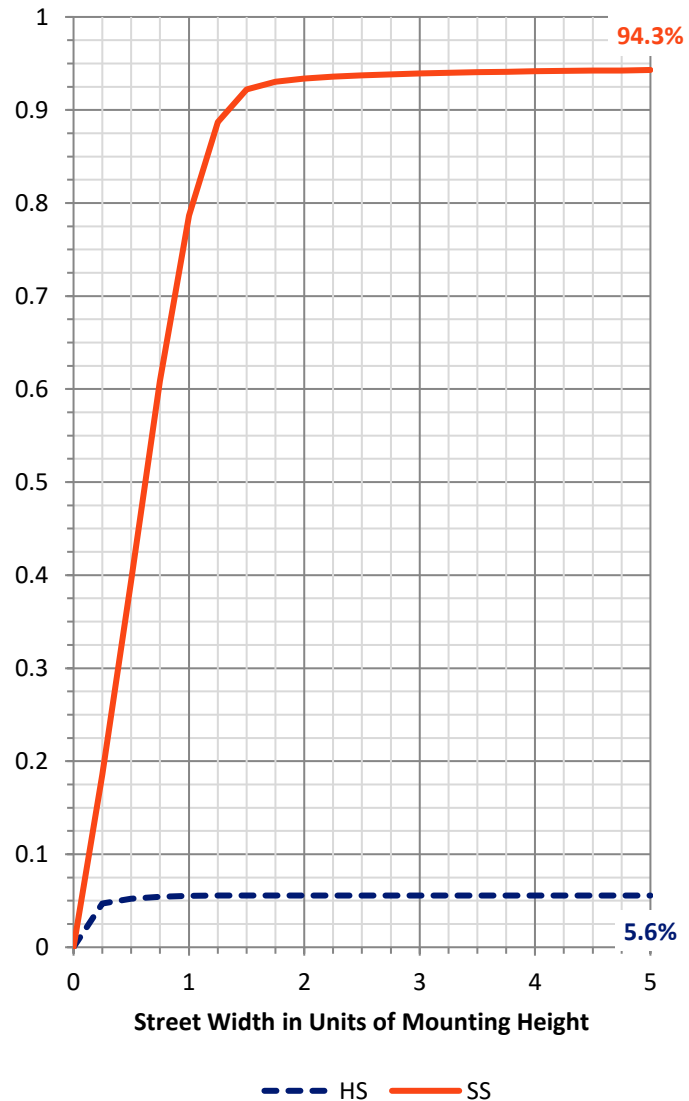
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1478.9   | 0.0    | 1478.9  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 24997.8  | 0.0    | 24997.8 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 26476.6  | 0.0    | 26476.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 624.3   | 2.4       |
| 10°-20°   | 1494.7  | 5.6       |
| 20°-30°   | 2543.4  | 9.6       |
| 30°-40°   | 4374.1  | 16.5      |
| 40°-50°   | 6753.1  | 25.5      |
| 50°-60°   | 6789.0  | 25.6      |
| 60°-70°   | 3481.4  | 13.1      |
| 70°-80°   | 377.3   | 1.4       |
| 80°-90°   | 39.4    | 0.1       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 26476.6 | 100.0     |
| 0°-180°   | 26476.6 | 100.0     |

**Coefficient of Utilization**



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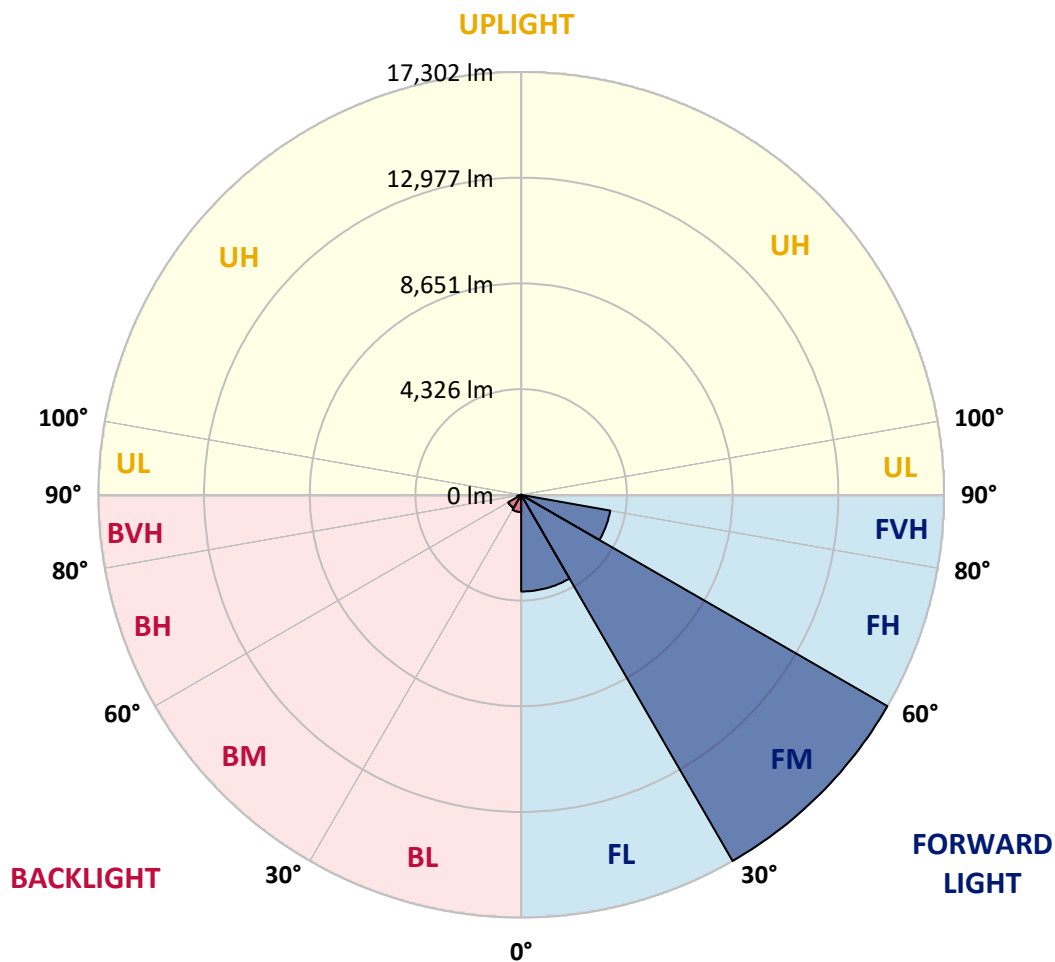
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3956.5  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 17302.4 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 3700.3  | 14.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 38.6    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 705.9   | 2.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 613.7   | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 158.4   | 0.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.8     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7453.1  | 7453.1  | 7453.1  | 7453.1  | 7453.1  | 7453.1  | 7453.1  | 7453.1  | 7453.1  | 7453.1  | 7453.1  |
| 2.5°  | 8818.7  | 8725.0  | 8696.8  | 8678.1  | 8592.1  | 8484.3  | 8337.5  | 8268.7  | 8128.1  | 7901.5  | 7623.4  |
| 5°    | 9626.5  | 9609.3  | 9546.8  | 9512.4  | 9420.3  | 9267.1  | 9032.8  | 8920.3  | 8696.8  | 8315.6  | 7817.1  |
| 7.5°  | 9273.4  | 9381.2  | 9467.1  | 9610.9  | 9792.1  | 9785.9  | 9589.0  | 9471.8  | 9221.8  | 8718.7  | 8032.8  |
| 10°   | 7909.3  | 7996.8  | 8137.5  | 8464.0  | 9129.6  | 9717.1  | 9948.4  | 9864.0  | 9664.0  | 9089.0  | 8240.6  |
| 12.5° | 7642.1  | 7632.8  | 7657.8  | 7753.1  | 8101.5  | 8939.0  | 9887.4  | 10057.8 | 10017.1 | 9428.1  | 8437.5  |
| 15°   | 7784.3  | 7773.4  | 7770.3  | 7803.1  | 7887.5  | 8240.6  | 9429.6  | 9918.7  | 10232.8 | 9742.1  | 8604.6  |
| 17.5° | 8182.8  | 8135.9  | 8110.9  | 8084.3  | 8059.3  | 8146.8  | 8879.6  | 9529.6  | 10265.6 | 10017.1 | 8743.7  |
| 20°   | 8865.6  | 8787.5  | 8695.3  | 8545.3  | 8404.6  | 8360.9  | 8648.4  | 9129.6  | 10148.4 | 10226.5 | 8834.3  |
| 22.5° | 9723.4  | 9623.4  | 9464.0  | 9190.6  | 8904.6  | 8739.0  | 8762.5  | 9003.1  | 9973.4  | 10454.6 | 8876.5  |
| 25°   | 10687.4 | 10559.3 | 10346.8 | 9967.1  | 9546.8  | 9253.1  | 9100.0  | 9184.3  | 9893.7  | 10721.8 | 8925.0  |
| 27.5° | 11720.2 | 11578.1 | 11299.9 | 10782.8 | 10306.2 | 9909.3  | 9596.8  | 9585.9  | 10029.6 | 11071.8 | 9003.1  |
| 30°   | 12743.7 | 12721.8 | 12359.3 | 11812.4 | 11181.2 | 10698.4 | 10248.4 | 10190.6 | 10409.3 | 11556.2 | 9157.8  |
| 32.5° | 14109.3 | 13945.2 | 13501.5 | 12939.0 | 12210.9 | 11631.2 | 11098.4 | 10964.0 | 10992.1 | 12120.2 | 9396.8  |
| 35°   | 15831.2 | 15651.5 | 15026.5 | 14249.9 | 13435.9 | 12751.5 | 12162.4 | 11979.6 | 11910.9 | 13043.7 | 9799.9  |
| 37.5° | 16943.7 | 16940.5 | 16548.3 | 15757.7 | 14884.3 | 14129.6 | 13489.0 | 13274.9 | 13135.9 | 14159.3 | 10424.9 |
| 40°   | 16973.3 | 17046.8 | 17098.3 | 17090.5 | 16468.7 | 15773.4 | 15204.6 | 14940.5 | 14617.1 | 15649.9 | 11232.8 |
| 42.5° | 16062.4 | 16251.5 | 16706.2 | 17478.0 | 17846.8 | 17570.2 | 17090.5 | 16831.2 | 16349.9 | 17245.2 | 12217.1 |
| 45°   | 14831.2 | 14962.4 | 15757.7 | 17179.6 | 18593.7 | 19351.5 | 18985.8 | 18521.8 | 17887.4 | 18909.3 | 13099.9 |
| 47.5° | 14279.6 | 14303.0 | 14817.1 | 16378.0 | 18649.9 | 20810.8 | 21032.7 | 20278.0 | 19284.3 | 20249.9 | 13790.6 |
| 50°   | 12631.2 | 12673.4 | 13382.7 | 14989.0 | 17990.5 | 21499.9 | 23088.9 | 22373.3 | 20807.7 | 21282.7 | 14042.1 |
| 52.5° | 9520.3  | 9579.6  | 10479.6 | 12706.2 | 16178.0 | 21206.1 | 24560.8 | 24387.4 | 22476.4 | 21787.4 | 14056.2 |
| 55°   | 5617.2  | 5695.3  | 6554.7  | 8553.1  | 12724.9 | 19337.4 | 24670.2 | 25307.7 | 23793.6 | 22085.8 | 14034.3 |
| 57.5° | 2623.4  | 2678.1  | 3170.3  | 4406.2  | 7914.0  | 15282.7 | 23023.3 | 24676.4 | 24520.2 | 22243.6 | 14189.0 |
| 60°   | 1393.7  | 1409.4  | 1528.1  | 1907.8  | 3576.5  | 9690.6  | 19809.3 | 22282.7 | 23857.7 | 22462.4 | 14378.0 |
| 62.5° | 1065.6  | 1070.3  | 1064.1  | 1109.4  | 1503.1  | 4301.5  | 14973.4 | 18318.7 | 21190.5 | 22298.3 | 14168.7 |
| 65°   | 923.4   | 931.2   | 887.5   | 876.6   | 964.1   | 1534.4  | 8895.3  | 13057.7 | 16651.5 | 20084.3 | 12742.1 |
| 67.5° | 828.1   | 831.2   | 778.1   | 732.8   | 748.4   | 829.7   | 3509.4  | 7148.4  | 11021.8 | 14721.8 | 9235.9  |
| 70°   | 762.5   | 759.4   | 701.6   | 629.7   | 609.4   | 567.2   | 1115.6  | 2620.3  | 5267.2  | 7465.6  | 4295.3  |
| 72.5° | 675.0   | 676.6   | 648.4   | 554.7   | 506.2   | 396.9   | 517.2   | 764.1   | 1571.9  | 2034.4  | 1006.2  |
| 75°   | 598.4   | 590.6   | 556.2   | 496.9   | 417.2   | 260.9   | 256.2   | 340.6   | 484.4   | 481.2   | 217.2   |
| 77.5° | 432.8   | 425.0   | 435.9   | 407.8   | 320.3   | 168.7   | 128.1   | 164.1   | 196.9   | 190.6   | 60.9    |
| 80°   | 317.2   | 312.5   | 281.2   | 339.1   | 282.8   | 115.6   | 79.7    | 87.5    | 101.6   | 85.9    | 18.7    |
| 82.5° | 217.2   | 215.6   | 198.4   | 187.5   | 160.9   | 70.3    | 50.0    | 54.7    | 65.6    | 48.4    | 9.4     |
| 85°   | 34.4    | 39.1    | 143.7   | 114.1   | 95.3    | 31.2    | 34.4    | 37.5    | 43.7    | 26.6    | 3.1     |
| 87.5° | 0.0     | 0.0     | 67.2    | 59.4    | 18.7    | 12.5    | 20.3    | 21.9    | 21.9    | 14.1    | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7453.1 | 7453.1 | 7453.1 | 7453.1 | 7453.1 | 7453.1 | 7453.1 | 7453.1 | 7453.1 | 7453.1 | 7453.1 |
| 2.5°  | 7481.2 | 7325.0 | 7035.9 | 6737.5 | 6460.9 | 6131.2 | 5904.7 | 5734.3 | 5537.5 | 5484.3 | 5600.0 |
| 5°    | 7532.8 | 7237.5 | 6615.6 | 5939.0 | 5303.1 | 4598.4 | 4059.4 | 3632.8 | 3246.9 | 3115.6 | 3234.4 |
| 7.5°  | 7614.0 | 7175.0 | 6160.9 | 5046.8 | 3940.6 | 2840.6 | 2087.5 | 1592.2 | 1276.6 | 1182.8 | 1232.8 |
| 10°   | 7695.3 | 7084.3 | 5634.3 | 3990.6 | 2478.1 | 1382.8 | 900.0  | 718.7  | 651.6  | 637.5  | 645.3  |
| 12.5° | 7762.5 | 6962.5 | 4992.2 | 2837.5 | 1325.0 | 740.6  | 589.1  | 559.4  | 550.0  | 550.0  | 553.1  |
| 15°   | 7803.1 | 6778.1 | 4231.2 | 1804.7 | 762.5  | 559.4  | 514.1  | 504.7  | 504.7  | 506.2  | 509.4  |
| 17.5° | 7798.4 | 6543.7 | 3398.4 | 1092.2 | 570.3  | 495.3  | 468.7  | 460.9  | 459.4  | 462.5  | 464.1  |
| 20°   | 7740.6 | 6237.5 | 2562.5 | 720.3  | 496.9  | 451.6  | 425.0  | 410.9  | 409.4  | 412.5  | 415.6  |
| 22.5° | 7631.2 | 5859.3 | 1832.8 | 554.7  | 448.4  | 409.4  | 376.6  | 364.1  | 364.1  | 367.2  | 370.3  |
| 25°   | 7498.4 | 5396.8 | 1253.1 | 470.3  | 404.7  | 364.1  | 332.8  | 321.9  | 325.0  | 332.8  | 334.4  |
| 27.5° | 7332.8 | 4876.5 | 851.6  | 403.1  | 351.6  | 318.7  | 295.3  | 287.5  | 295.3  | 306.2  | 309.4  |
| 30°   | 7190.6 | 4334.4 | 607.8  | 348.4  | 298.4  | 275.0  | 260.9  | 260.9  | 271.9  | 292.2  | 296.9  |
| 32.5° | 7081.2 | 3809.4 | 468.7  | 307.8  | 259.4  | 239.1  | 231.2  | 239.1  | 256.2  | 276.6  | 281.2  |
| 35°   | 7067.1 | 3376.5 | 396.9  | 275.0  | 231.2  | 210.9  | 207.8  | 221.9  | 239.1  | 254.7  | 257.8  |
| 37.5° | 7175.0 | 2976.5 | 357.8  | 248.4  | 206.2  | 187.5  | 184.4  | 201.6  | 218.7  | 237.5  | 242.2  |
| 40°   | 7379.6 | 2662.5 | 329.7  | 223.4  | 185.9  | 165.6  | 159.4  | 171.9  | 195.3  | 220.3  | 226.6  |
| 42.5° | 7645.3 | 2403.1 | 298.4  | 198.4  | 165.6  | 137.5  | 129.7  | 143.7  | 168.7  | 195.3  | 203.1  |
| 45°   | 7898.4 | 2179.7 | 264.1  | 170.3  | 139.1  | 106.2  | 103.1  | 121.9  | 134.4  | 160.9  | 167.2  |
| 47.5° | 8037.5 | 1982.8 | 234.4  | 139.1  | 107.8  | 85.9   | 85.9   | 90.6   | 103.1  | 134.4  | 140.6  |
| 50°   | 7990.6 | 1825.0 | 203.1  | 103.1  | 75.0   | 65.6   | 65.6   | 64.1   | 82.8   | 107.8  | 112.5  |
| 52.5° | 7896.8 | 1734.4 | 175.0  | 79.7   | 51.6   | 46.9   | 42.2   | 46.9   | 57.8   | 68.7   | 70.3   |
| 55°   | 7882.8 | 1718.7 | 146.9  | 64.1   | 35.9   | 31.2   | 23.4   | 23.4   | 23.4   | 21.9   | 18.7   |
| 57.5° | 7992.1 | 1743.7 | 123.4  | 51.6   | 26.6   | 20.3   | 12.5   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 8104.6 | 1770.3 | 106.2  | 35.9   | 18.7   | 10.9   | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 7917.1 | 1710.9 | 89.1   | 21.9   | 14.1   | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 6954.7 | 1456.2 | 70.3   | 15.6   | 9.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 4946.8 | 975.0  | 46.9   | 9.4    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2257.8 | 407.8  | 29.7   | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 482.8  | 126.6  | 20.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 98.4   | 92.2   | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 31.2   | 145.3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 18.7   | 104.7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 3.1    | 15.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 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)