

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: P257982

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2U-7050**

Issue Date: 8/21/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P257982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 8/21/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-260-D-U-T2U-7050  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28821 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

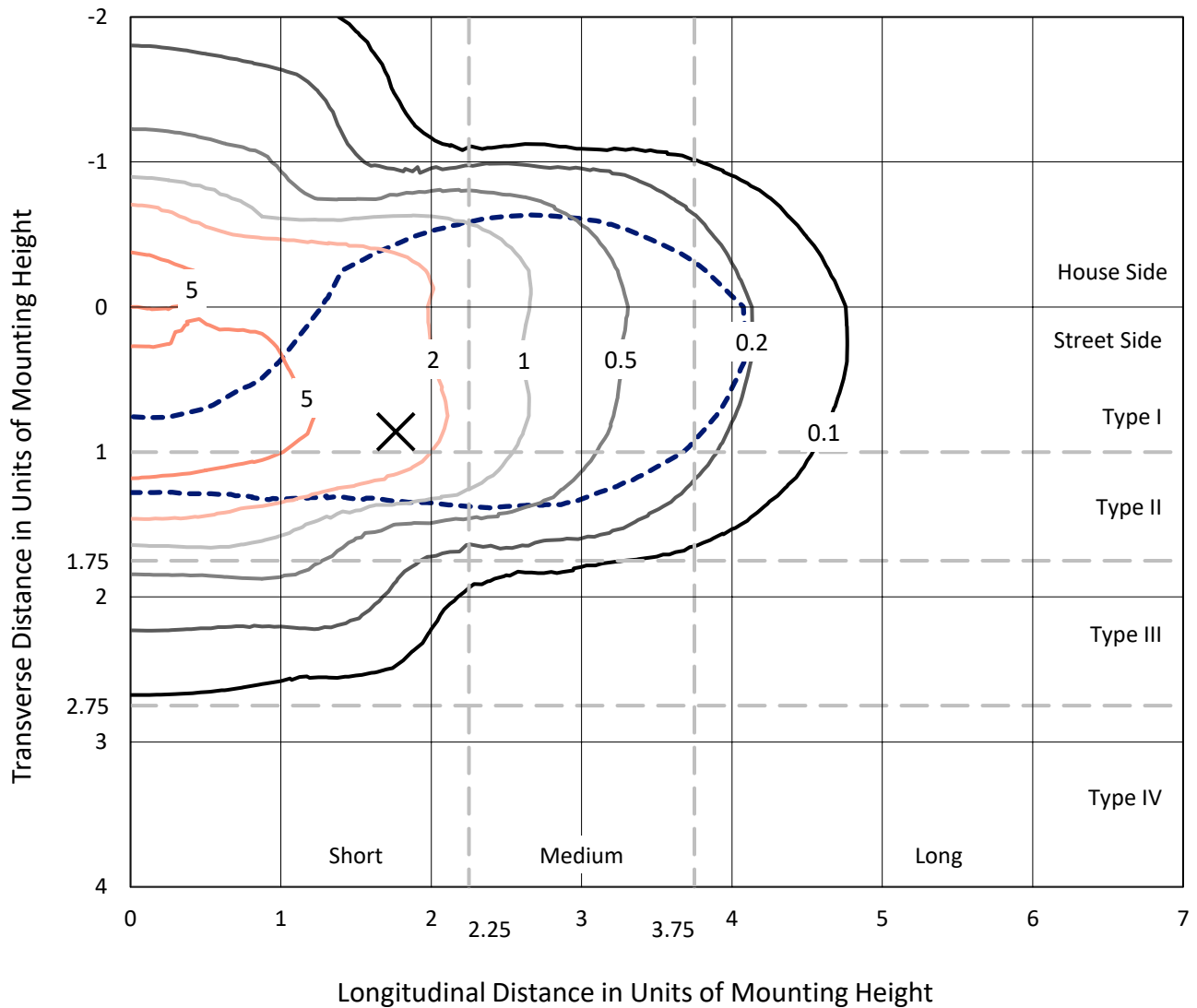
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

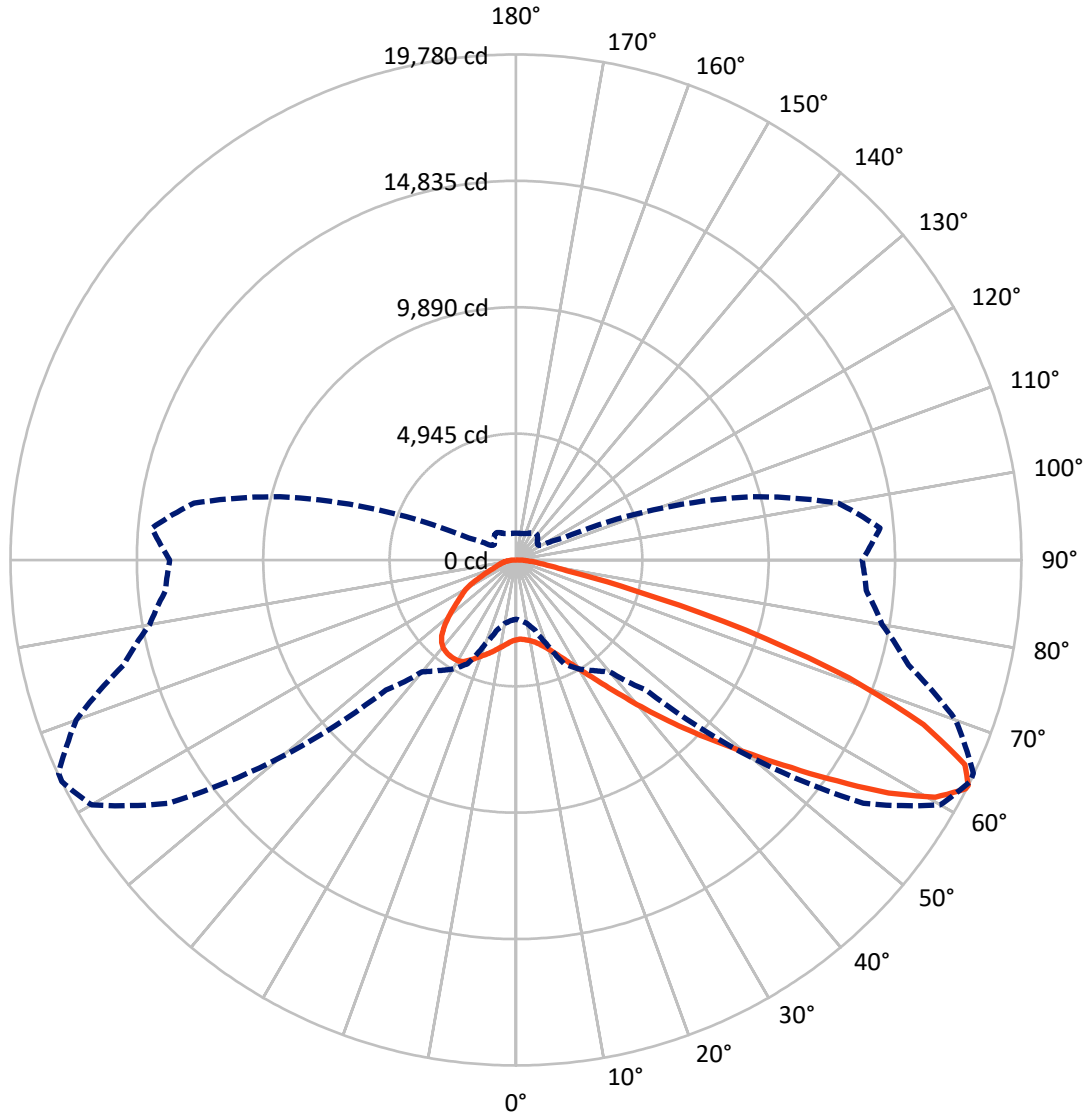
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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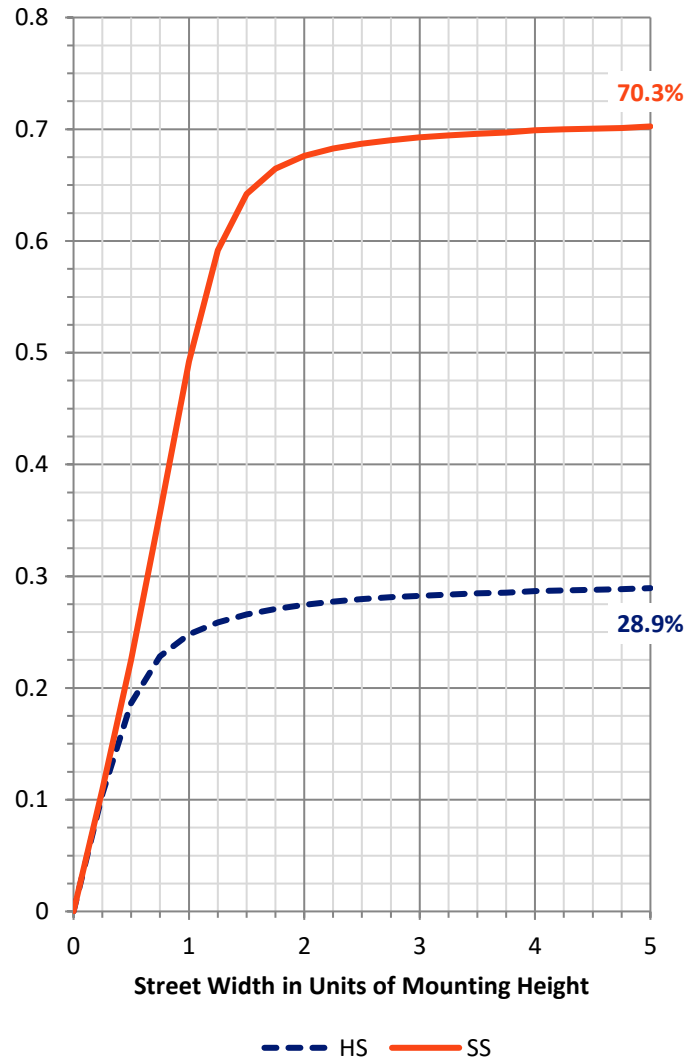
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8472.3   | 0.0    | 8472.3  |
|                    | % Fixture | 29.4     | 0.0    | 29.4    |
| <b>Street Side</b> | Lumens    | 20348.7  | 0.0    | 20348.7 |
|                    | % Fixture | 70.6     | 0.0    | 70.6    |
| <b>Total</b>       | Lumens    | 28821.0  | 0.0    | 28821.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 311.6   | 1.1       |
| 10°-20°   | 1038.0  | 3.6       |
| 20°-30°   | 1948.4  | 6.8       |
| 30°-40°   | 3265.8  | 11.3      |
| 40°-50°   | 5479.3  | 19.0      |
| 50°-60°   | 6946.1  | 24.1      |
| 60°-70°   | 6127.5  | 21.3      |
| 70°-80°   | 3163.1  | 11.0      |
| 80°-90°   | 541.3   | 1.9       |
| 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°    | 28821.0 | 100.0     |
| 0°-180°   | 28821.0 | 100.0     |



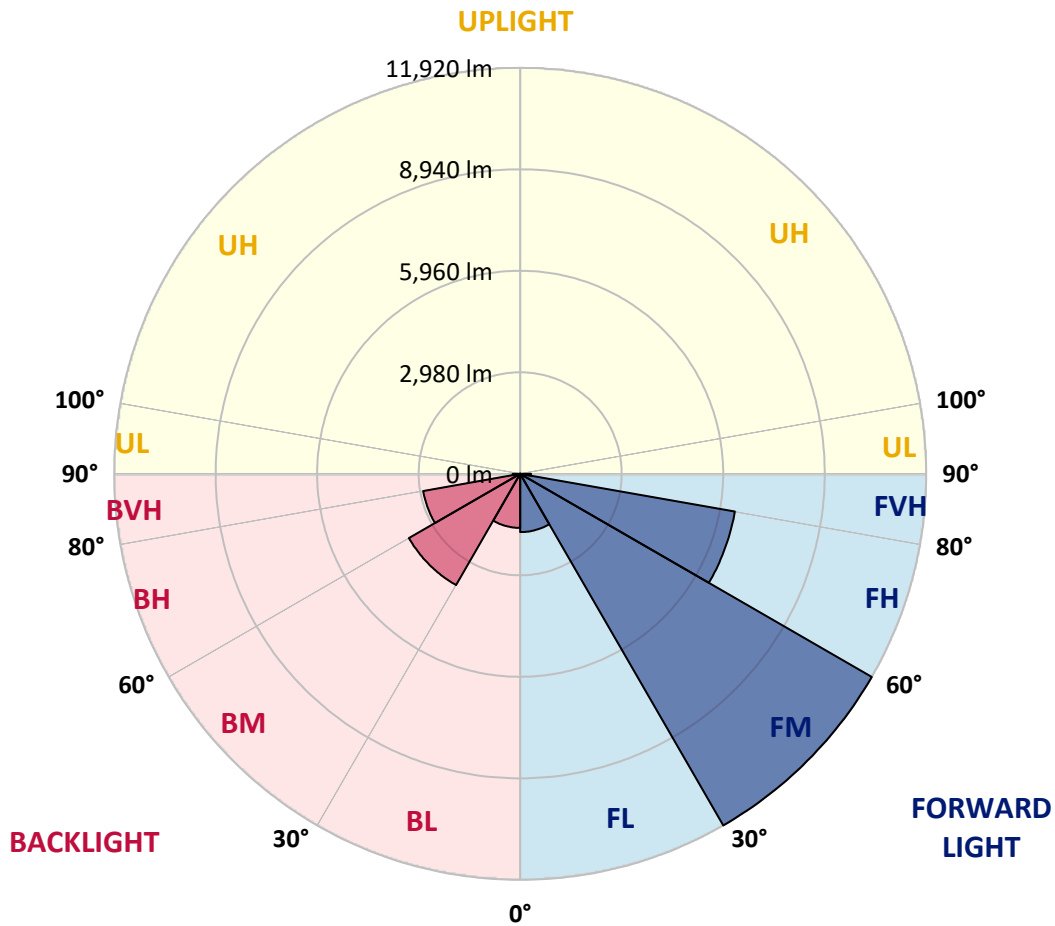
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1710.6  | 5.9       |                         |      |         |
| FM (30°-60°)   | 11919.6 | 41.4      |                         |      |         |
| FH (60°-80°)   | 6399.9  | 22.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 318.5   | 1.1       |                         |      | G3/500  |
| BL (0°-30°)    | 1587.4  | 5.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 3771.5  | 13.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2890.7  | 10.0      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 222.7   | 0.8       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  |
| 2.5°  | 3102.0  | 3097.2  | 3097.2  | 3097.2  | 3097.2  | 3092.4  | 3097.2  | 3106.8  | 3102.0  | 3097.2  | 3106.8  |
| 5°    | 3111.7  | 3106.8  | 3106.8  | 3106.8  | 3111.7  | 3106.8  | 3111.7  | 3126.1  | 3116.5  | 3116.5  | 3126.1  |
| 7.5°  | 3135.8  | 3131.0  | 3135.8  | 3131.0  | 3131.0  | 3131.0  | 3135.8  | 3150.2  | 3145.4  | 3150.2  | 3164.7  |
| 10°   | 3164.7  | 3164.7  | 3164.7  | 3164.7  | 3164.7  | 3164.7  | 3174.4  | 3184.0  | 3188.8  | 3193.7  | 3213.0  |
| 12.5° | 3251.6  | 3251.6  | 3251.6  | 3246.7  | 3246.7  | 3232.3  | 3251.6  | 3261.2  | 3270.9  | 3280.5  | 3295.0  |
| 15°   | 3434.9  | 3434.9  | 3430.1  | 3410.8  | 3410.8  | 3381.8  | 3386.6  | 3391.5  | 3391.5  | 3401.1  | 3410.8  |
| 17.5° | 3676.1  | 3671.3  | 3661.6  | 3647.1  | 3627.9  | 3594.1  | 3584.4  | 3574.8  | 3560.3  | 3555.5  | 3555.5  |
| 20°   | 4013.8  | 4009.0  | 3989.7  | 3951.1  | 3927.0  | 3873.9  | 3835.3  | 3796.7  | 3782.2  | 3758.1  | 3753.3  |
| 22.5° | 4496.2  | 4496.2  | 4457.6  | 4399.7  | 4380.4  | 4269.5  | 4158.5  | 4076.5  | 4047.6  | 4013.8  | 4013.8  |
| 25°   | 5080.0  | 5075.1  | 5022.1  | 4954.5  | 4872.5  | 4756.7  | 4621.6  | 4510.7  | 4438.3  | 4361.1  | 4332.2  |
| 27.5° | 5779.5  | 5765.0  | 5692.6  | 5610.6  | 5456.2  | 5311.5  | 5152.3  | 5036.5  | 4911.1  | 4814.6  | 4727.8  |
| 30°   | 6599.6  | 6585.1  | 6459.7  | 6305.3  | 6146.1  | 6001.4  | 5769.8  | 5629.9  | 5432.1  | 5316.3  | 5219.9  |
| 32.5° | 7550.0  | 7535.5  | 7308.8  | 7159.2  | 6990.4  | 6811.9  | 6536.9  | 6315.0  | 6064.1  | 5900.1  | 5765.0  |
| 35°   | 8760.9  | 8703.0  | 8379.8  | 8172.3  | 7907.0  | 7728.5  | 7439.0  | 7139.9  | 6845.6  | 6614.1  | 6416.3  |
| 37.5° | 10068.3 | 10000.7 | 9716.1  | 9407.3  | 9146.8  | 8929.7  | 8519.7  | 8143.4  | 7796.0  | 7477.6  | 7231.6  |
| 40°   | 11433.5 | 11255.0 | 10951.1 | 10724.4 | 10545.9 | 10338.4 | 9909.0  | 9513.5  | 8968.3  | 8611.3  | 8239.9  |
| 42.5° | 12379.1 | 12205.4 | 11993.1 | 11843.6 | 11756.7 | 11597.5 | 11356.3 | 11013.8 | 10526.6 | 10536.2 | 9556.9  |
| 45°   | 13001.4 | 12745.7 | 12601.0 | 12610.6 | 12644.4 | 12644.4 | 12601.0 | 12547.9 | 12335.7 | 12480.4 | 11660.3 |
| 47.5° | 12779.5 | 12610.6 | 12519.0 | 12711.9 | 12953.2 | 13194.4 | 13474.2 | 13778.1 | 14125.5 | 14535.5 | 13527.3 |
| 50°   | 11476.9 | 11539.7 | 11583.1 | 11993.1 | 12509.3 | 13059.3 | 13700.9 | 14530.7 | 15500.4 | 15688.5 | 15201.3 |
| 52.5° | 9397.7  | 9532.8  | 9677.5  | 10304.6 | 10984.9 | 11935.2 | 13059.3 | 14429.4 | 15731.9 | 16499.0 | 16450.8 |
| 55°   | 7299.1  | 7468.0  | 7776.7  | 8244.7  | 8785.0  | 9682.3  | 11071.7 | 13184.7 | 15215.7 | 16436.3 | 17179.2 |
| 57.5° | 5195.7  | 5441.8  | 5847.0  | 6498.3  | 6975.9  | 7482.4  | 8510.0  | 10854.6 | 13078.6 | 15350.8 | 17058.6 |
| 60°   | 3454.2  | 3570.0  | 3835.3  | 4645.8  | 5451.4  | 5982.1  | 6710.6  | 7559.6  | 9378.4  | 12509.3 | 15814.0 |
| 62.5° | 2450.7  | 2527.9  | 2691.9  | 3058.6  | 3787.1  | 4747.1  | 5186.1  | 5576.9  | 6160.6  | 8046.9  | 12697.5 |
| 63°   | 2315.6  | 2383.2  | 2518.3  | 2827.0  | 3483.1  | 4476.9  | 4925.6  | 5282.6  | 5707.1  | 7197.8  | 12012.4 |
| 65°   | 1920.1  | 1949.0  | 2021.4  | 2170.9  | 2523.1  | 3348.0  | 4081.3  | 4298.4  | 4370.8  | 4626.5  | 7525.9  |
| 67.5° | 1621.0  | 1640.3  | 1664.4  | 1707.8  | 1847.7  | 2228.8  | 3044.1  | 3319.1  | 3237.1  | 3063.4  | 3719.5  |
| 70°   | 1408.7  | 1423.2  | 1461.8  | 1514.8  | 1563.1  | 1659.5  | 2093.7  | 2503.8  | 2412.1  | 2175.7  | 2277.1  |
| 72.5° | 1124.1  | 1148.2  | 1191.6  | 1283.3  | 1379.7  | 1505.2  | 1611.3  | 1867.0  | 1809.1  | 1582.4  | 1606.5  |
| 75°   | 887.7   | 902.1   | 940.7   | 1008.3  | 1099.9  | 1244.7  | 1452.1  | 1538.9  | 1379.7  | 1167.5  | 1167.5  |
| 77.5° | 704.3   | 718.8   | 752.6   | 805.7   | 863.5   | 964.9   | 1109.6  | 1336.3  | 1239.8  | 878.0   | 873.2   |
| 80°   | 530.7   | 545.1   | 578.9   | 627.2   | 685.0   | 757.4   | 844.2   | 945.6   | 1138.5  | 820.1   | 656.1   |
| 82.5° | 390.8   | 395.6   | 453.5   | 487.3   | 506.5   | 564.4   | 636.8   | 694.7   | 781.5   | 757.4   | 583.7   |
| 85°   | 294.3   | 289.5   | 328.1   | 352.2   | 357.0   | 371.5   | 414.9   | 472.8   | 511.4   | 492.1   | 453.5   |
| 87.5° | 164.0   | 144.7   | 168.8   | 193.0   | 193.0   | 197.8   | 207.4   | 241.2   | 275.0   | 265.3   | 241.2   |
| 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):**

|       | 55°     | 60°     | 64°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  | 3121.3  |
| 2.5°  | 3106.8  | 3106.8  | 3102.0  | 3102.0  | 3106.8  | 3106.8  | 3102.0  | 3116.5  | 3126.1  | 3126.1  | 3131.0  |
| 5°    | 3121.3  | 3126.1  | 3121.3  | 3121.3  | 3126.1  | 3126.1  | 3131.0  | 3145.4  | 3159.9  | 3169.5  | 3184.0  |
| 7.5°  | 3164.7  | 3169.5  | 3164.7  | 3164.7  | 3169.5  | 3174.4  | 3184.0  | 3203.3  | 3213.0  | 3232.3  | 3256.4  |
| 10°   | 3213.0  | 3217.8  | 3213.0  | 3217.8  | 3222.6  | 3227.4  | 3241.9  | 3256.4  | 3270.9  | 3290.2  | 3328.7  |
| 12.5° | 3299.8  | 3304.6  | 3295.0  | 3299.8  | 3314.3  | 3314.3  | 3323.9  | 3333.6  | 3357.7  | 3381.8  | 3420.4  |
| 15°   | 3420.4  | 3420.4  | 3410.8  | 3415.6  | 3430.1  | 3430.1  | 3434.9  | 3444.5  | 3473.5  | 3502.4  | 3541.0  |
| 17.5° | 3560.3  | 3570.0  | 3565.1  | 3570.0  | 3579.6  | 3584.4  | 3584.4  | 3594.1  | 3613.4  | 3632.7  | 3671.3  |
| 20°   | 3748.5  | 3753.3  | 3743.6  | 3753.3  | 3762.9  | 3753.3  | 3743.6  | 3738.8  | 3748.5  | 3758.1  | 3801.5  |
| 22.5° | 4004.1  | 3999.3  | 3975.2  | 3975.2  | 3975.2  | 3955.9  | 3931.8  | 3902.8  | 3902.8  | 3888.4  | 3922.1  |
| 25°   | 4308.1  | 4293.6  | 4259.8  | 4264.7  | 4230.9  | 4201.9  | 4158.5  | 4115.1  | 4076.5  | 4062.0  | 4066.9  |
| 27.5° | 4665.1  | 4636.1  | 4602.4  | 4592.7  | 4558.9  | 4505.9  | 4433.5  | 4351.5  | 4288.8  | 4240.5  | 4230.9  |
| 30°   | 5113.7  | 5051.0  | 4993.1  | 4983.5  | 4930.4  | 4843.6  | 4727.8  | 4616.8  | 4510.7  | 4428.7  | 4399.7  |
| 32.5° | 5644.4  | 5547.9  | 5456.2  | 5446.6  | 5359.8  | 5244.0  | 5104.1  | 4949.7  | 4795.3  | 4665.1  | 4602.4  |
| 35°   | 6266.7  | 6122.0  | 6035.2  | 6011.0  | 5885.6  | 5740.9  | 5586.5  | 5388.7  | 5171.6  | 4988.3  | 4872.5  |
| 37.5° | 7024.1  | 6874.6  | 6725.0  | 6729.9  | 6556.2  | 6387.3  | 6179.9  | 5938.7  | 5663.7  | 5408.0  | 5244.0  |
| 40°   | 7960.0  | 7747.8  | 7554.8  | 7511.4  | 7361.8  | 7125.4  | 6898.7  | 6618.9  | 6281.2  | 5943.5  | 5707.1  |
| 42.5° | 9093.7  | 8746.4  | 8481.1  | 8442.5  | 8244.7  | 7955.2  | 7680.2  | 7308.8  | 6966.2  | 6556.2  | 6271.6  |
| 45°   | 10381.8 | 9827.0  | 9508.6  | 9450.7  | 9132.3  | 8838.1  | 8505.2  | 8109.6  | 7689.9  | 7226.8  | 6889.1  |
| 47.5° | 11983.5 | 11192.3 | 10652.0 | 10555.5 | 10116.5 | 9730.6  | 9383.2  | 8944.2  | 8442.5  | 7926.3  | 7554.8  |
| 50°   | 13850.5 | 12683.0 | 11954.5 | 11805.0 | 11216.4 | 10762.9 | 10319.1 | 9769.1  | 9233.7  | 8693.3  | 8264.0  |
| 52.5° | 15722.3 | 14468.0 | 13498.3 | 13315.0 | 12446.6 | 11838.8 | 11255.0 | 10705.1 | 10073.1 | 9537.6  | 9050.3  |
| 55°   | 17227.5 | 16392.9 | 15268.8 | 15013.1 | 13768.5 | 12943.5 | 12176.5 | 11549.3 | 10922.1 | 10497.6 | 9923.5  |
| 57.5° | 18134.4 | 18091.0 | 17203.3 | 16851.2 | 15148.2 | 13927.7 | 13073.8 | 12359.8 | 11751.9 | 11573.4 | 10811.2 |
| 60°   | 18110.3 | 19234.4 | 18853.2 | 18587.9 | 16542.4 | 14935.9 | 13826.4 | 13054.5 | 12552.7 | 12755.4 | 11703.7 |
| 62.5° | 17005.5 | 19282.6 | 19740.9 | 19668.5 | 18028.3 | 15746.4 | 14443.9 | 13647.9 | 13382.5 | 13985.6 | 12629.9 |
| 63°   | 16605.1 | 19171.6 | 19779.5 | 19750.6 | 18312.9 | 15900.8 | 14550.0 | 13763.6 | 13546.5 | 14299.1 | 12798.8 |
| 65°   | 14033.8 | 18202.0 | 19311.5 | 19441.8 | 18925.6 | 16431.5 | 14796.0 | 14057.9 | 14033.8 | 14998.7 | 13199.2 |
| 67.5° | 8553.4  | 15379.8 | 17203.3 | 17454.2 | 18062.1 | 16600.3 | 14656.1 | 13956.6 | 14304.0 | 15100.0 | 13078.6 |
| 70°   | 3656.8  | 10150.3 | 13826.4 | 14231.6 | 15717.5 | 15760.9 | 14255.7 | 13541.7 | 14241.2 | 14308.8 | 12219.9 |
| 72.5° | 2166.1  | 4785.7  | 9412.1  | 10295.0 | 12437.0 | 13561.0 | 13339.1 | 12818.1 | 13416.3 | 12567.2 | 10405.9 |
| 75°   | 1534.1  | 2238.5  | 4780.9  | 5721.6  | 8659.6  | 10352.9 | 11206.8 | 11448.0 | 11423.9 | 9966.9  | 7810.5  |
| 77.5° | 1099.9  | 1437.6  | 2016.5  | 2378.4  | 4833.9  | 6647.8  | 7689.9  | 8394.2  | 8167.5  | 6672.0  | 4814.6  |
| 80°   | 767.1   | 993.8   | 1235.0  | 1312.2  | 2243.3  | 3415.6  | 4052.4  | 4361.1  | 4226.1  | 3333.6  | 2156.4  |
| 82.5° | 554.8   | 651.3   | 796.0   | 844.2   | 1128.9  | 1577.5  | 1876.6  | 1654.7  | 1587.2  | 1230.2  | 931.1   |
| 85°   | 429.4   | 419.7   | 496.9   | 516.2   | 660.9   | 825.0   | 844.2   | 656.1   | 574.1   | 511.4   | 521.0   |
| 87.5° | 303.9   | 260.5   | 265.3   | 275.0   | 342.5   | 439.0   | 429.4   | 270.2   | 231.6   | 246.0   | 279.8   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 |
| 2.5°  | 3140.6 | 3145.4 | 3155.1 | 3159.9 | 3169.5 | 3169.5 | 3179.2 | 3184.0 | 3193.7 | 3203.3 | 3208.1 |
| 5°    | 3198.5 | 3213.0 | 3232.3 | 3241.9 | 3261.2 | 3275.7 | 3295.0 | 3304.6 | 3323.9 | 3338.4 | 3357.7 |
| 7.5°  | 3285.3 | 3309.4 | 3333.6 | 3362.5 | 3391.5 | 3415.6 | 3434.9 | 3459.0 | 3492.8 | 3516.9 | 3531.4 |
| 10°   | 3367.3 | 3401.1 | 3444.5 | 3478.3 | 3521.7 | 3555.5 | 3584.4 | 3627.9 | 3666.4 | 3700.2 | 3719.5 |
| 12.5° | 3473.5 | 3516.9 | 3560.3 | 3613.4 | 3671.3 | 3714.7 | 3758.1 | 3816.0 | 3869.1 | 3907.7 | 3927.0 |
| 15°   | 3598.9 | 3652.0 | 3700.2 | 3762.9 | 3830.5 | 3888.4 | 3951.1 | 4013.8 | 4052.4 | 4052.4 | 4042.7 |
| 17.5° | 3729.2 | 3772.6 | 3830.5 | 3902.8 | 3994.5 | 4066.9 | 4100.6 | 4110.3 | 4095.8 | 4062.0 | 4037.9 |
| 20°   | 3859.4 | 3898.0 | 3960.7 | 4047.6 | 4144.0 | 4158.5 | 4124.8 | 4081.3 | 4037.9 | 3980.0 | 3941.4 |
| 22.5° | 3965.5 | 4018.6 | 4115.1 | 4216.4 | 4221.2 | 4139.2 | 4047.6 | 3975.2 | 3907.7 | 3840.1 | 3767.8 |
| 25°   | 4091.0 | 4163.3 | 4293.6 | 4332.2 | 4206.8 | 4052.4 | 3922.1 | 3816.0 | 3705.0 | 3594.1 | 3512.1 |
| 27.5° | 4245.4 | 4351.5 | 4481.7 | 4370.8 | 4124.8 | 3907.7 | 3729.2 | 3570.0 | 3425.2 | 3270.9 | 3179.2 |
| 30°   | 4409.4 | 4573.4 | 4602.4 | 4312.9 | 3984.8 | 3705.0 | 3463.8 | 3222.6 | 3039.3 | 2899.4 | 2846.3 |
| 32.5° | 4607.2 | 4819.4 | 4645.8 | 4211.6 | 3796.7 | 3430.1 | 3106.8 | 2817.4 | 2663.0 | 2576.2 | 2552.0 |
| 35°   | 4906.3 | 5080.0 | 4669.9 | 4105.5 | 3579.6 | 3102.0 | 2696.8 | 2465.2 | 2368.7 | 2310.8 | 2281.9 |
| 37.5° | 5335.6 | 5330.8 | 4665.1 | 3975.2 | 3328.7 | 2745.0 | 2368.7 | 2204.7 | 2127.5 | 2079.3 | 2026.2 |
| 40°   | 5837.4 | 5523.8 | 4636.1 | 3787.1 | 2991.0 | 2402.5 | 2142.0 | 1987.6 | 1915.2 | 1857.3 | 1794.6 |
| 42.5° | 6334.3 | 5654.0 | 4554.1 | 3507.2 | 2571.3 | 2156.4 | 1978.0 | 1838.0 | 1760.9 | 1698.1 | 1611.3 |
| 45°   | 6763.6 | 5707.1 | 4394.9 | 3121.3 | 2195.0 | 1963.5 | 1871.8 | 1751.2 | 1659.5 | 1563.1 | 1495.5 |
| 47.5° | 7101.3 | 5697.5 | 4139.2 | 2667.8 | 1944.2 | 1828.4 | 1785.0 | 1703.0 | 1592.0 | 1471.4 | 1384.6 |
| 50°   | 7386.0 | 5625.1 | 3791.9 | 2267.4 | 1775.3 | 1707.8 | 1693.3 | 1669.2 | 1490.7 | 1389.4 | 1336.3 |
| 52.5° | 7646.5 | 5519.0 | 3420.4 | 1997.2 | 1630.6 | 1572.7 | 1601.7 | 1577.5 | 1452.1 | 1365.3 | 1312.2 |
| 55°   | 8003.5 | 5446.6 | 3053.8 | 1789.8 | 1461.8 | 1447.3 | 1471.4 | 1505.2 | 1428.0 | 1346.0 | 1288.1 |
| 57.5° | 8423.2 | 5485.2 | 2774.0 | 1558.2 | 1302.6 | 1312.2 | 1394.2 | 1442.5 | 1403.9 | 1317.0 | 1259.1 |
| 60°   | 8905.6 | 5601.0 | 2527.9 | 1336.3 | 1172.3 | 1196.4 | 1317.0 | 1384.6 | 1379.7 | 1278.4 | 1210.9 |
| 62.5° | 9445.9 | 5721.6 | 2137.2 | 1167.5 | 1061.3 | 1099.9 | 1225.4 | 1312.2 | 1326.7 | 1239.8 | 1157.8 |
| 63°   | 9552.1 | 5731.2 | 2035.8 | 1133.7 | 1042.0 | 1085.5 | 1201.2 | 1292.9 | 1312.2 | 1230.2 | 1148.2 |
| 65°   | 9812.6 | 5644.4 | 1640.3 | 1042.0 | 964.9  | 1013.1 | 1128.9 | 1210.9 | 1249.5 | 1177.1 | 1109.6 |
| 67.5° | 9595.5 | 4935.2 | 1235.0 | 931.1  | 902.1  | 935.9  | 1037.2 | 1114.4 | 1148.2 | 1114.4 | 1046.9 |
| 70°   | 8775.3 | 3589.3 | 964.9  | 829.8  | 834.6  | 858.7  | 935.9  | 1008.3 | 1046.9 | 1037.2 | 974.5  |
| 72.5° | 7067.6 | 2035.8 | 805.7  | 742.9  | 757.4  | 786.4  | 839.4  | 907.0  | 940.7  | 935.9  | 892.5  |
| 75°   | 4655.4 | 1042.0 | 680.2  | 665.7  | 675.4  | 699.5  | 738.1  | 791.2  | 829.8  | 825.0  | 805.7  |
| 77.5° | 2306.0 | 723.6  | 583.7  | 588.6  | 593.4  | 612.7  | 641.6  | 689.9  | 714.0  | 718.8  | 714.0  |
| 80°   | 950.4  | 564.4  | 501.7  | 506.5  | 511.4  | 525.8  | 545.1  | 588.6  | 603.0  | 612.7  | 617.5  |
| 82.5° | 569.3  | 429.4  | 400.4  | 410.1  | 414.9  | 429.4  | 443.8  | 482.4  | 496.9  | 511.4  | 511.4  |
| 85°   | 376.3  | 299.1  | 289.5  | 299.1  | 308.8  | 318.4  | 323.2  | 347.3  | 371.5  | 390.8  | 400.4  |
| 87.5° | 202.6  | 178.5  | 173.7  | 178.5  | 178.5  | 188.1  | 197.8  | 221.9  | 250.9  | 270.2  | 279.8  |
| 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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|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3121.3 | 3121.3 | 3121.3 | 3121.3 | 3121.3 |
| 2.5°  | 3198.5 | 3203.3 | 3198.5 | 3203.3 | 3208.1 |
| 5°    | 3357.7 | 3367.3 | 3362.5 | 3362.5 | 3381.8 |
| 7.5°  | 3541.0 | 3560.3 | 3560.3 | 3570.0 | 3579.6 |
| 10°   | 3738.8 | 3758.1 | 3772.6 | 3772.6 | 3787.1 |
| 12.5° | 3936.6 | 3946.3 | 3960.7 | 3960.7 | 3960.7 |
| 15°   | 4037.9 | 4033.1 | 4028.3 | 4023.4 | 4023.4 |
| 17.5° | 4023.4 | 4004.1 | 3994.5 | 3984.8 | 3989.7 |
| 20°   | 3917.3 | 3883.5 | 3873.9 | 3859.4 | 3869.1 |
| 22.5° | 3734.0 | 3685.7 | 3666.4 | 3642.3 | 3652.0 |
| 25°   | 3459.0 | 3401.1 | 3391.5 | 3362.5 | 3377.0 |
| 27.5° | 3140.6 | 3111.7 | 3106.8 | 3102.0 | 3126.1 |
| 30°   | 2841.5 | 2851.1 | 2856.0 | 2865.6 | 2889.7 |
| 32.5° | 2566.5 | 2585.8 | 2590.6 | 2595.5 | 2629.2 |
| 35°   | 2296.4 | 2272.2 | 2296.4 | 2286.7 | 2315.6 |
| 37.5° | 2002.1 | 1982.8 | 1963.5 | 1939.4 | 1958.7 |
| 40°   | 1756.0 | 1722.3 | 1664.4 | 1635.4 | 1640.3 |
| 42.5° | 1563.1 | 1519.6 | 1471.4 | 1442.5 | 1442.5 |
| 45°   | 1437.6 | 1384.6 | 1341.1 | 1321.8 | 1321.8 |
| 47.5° | 1341.1 | 1317.0 | 1292.9 | 1278.4 | 1278.4 |
| 50°   | 1302.6 | 1273.6 | 1259.1 | 1249.5 | 1249.5 |
| 52.5° | 1273.6 | 1244.7 | 1230.2 | 1220.5 | 1210.9 |
| 55°   | 1249.5 | 1206.1 | 1191.6 | 1186.8 | 1186.8 |
| 57.5° | 1215.7 | 1177.1 | 1157.8 | 1153.0 | 1153.0 |
| 60°   | 1162.6 | 1133.7 | 1114.4 | 1109.6 | 1109.6 |
| 62.5° | 1109.6 | 1080.6 | 1061.3 | 1061.3 | 1061.3 |
| 63°   | 1099.9 | 1066.2 | 1051.7 | 1051.7 | 1051.7 |
| 65°   | 1056.5 | 1022.7 | 1008.3 | 1008.3 | 1003.4 |
| 67.5° | 998.6  | 964.9  | 955.2  | 955.2  | 945.6  |
| 70°   | 931.1  | 902.1  | 892.5  | 897.3  | 878.0  |
| 72.5° | 863.5  | 834.6  | 820.1  | 820.1  | 800.8  |
| 75°   | 786.4  | 757.4  | 738.1  | 733.3  | 714.0  |
| 77.5° | 699.5  | 675.4  | 656.1  | 636.8  | 627.2  |
| 80°   | 607.9  | 588.6  | 564.4  | 550.0  | 535.5  |
| 82.5° | 511.4  | 492.1  | 477.6  | 496.9  | 424.5  |
| 85°   | 400.4  | 381.1  | 361.8  | 390.8  | 303.9  |
| 87.5° | 294.3  | 284.6  | 265.3  | 231.6  | 202.6  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)