

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

Brand: McGRAW-EDISON

Report Number: P643755

Luminaire Tested: GWS-SA6F-750-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-750-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

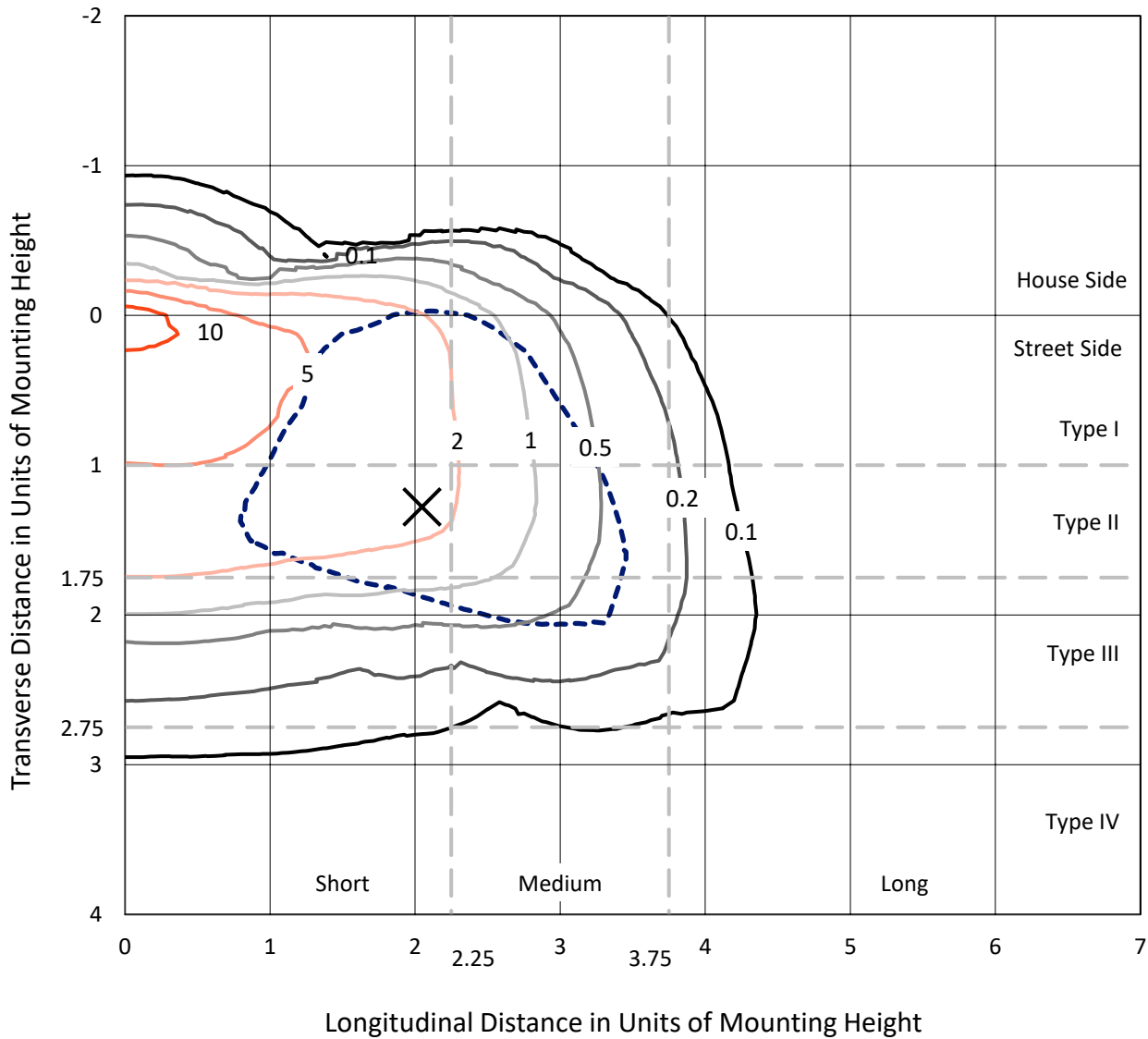
Lumens per Lamp: N/A  
Luminaire Lumens: 41233.6 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
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

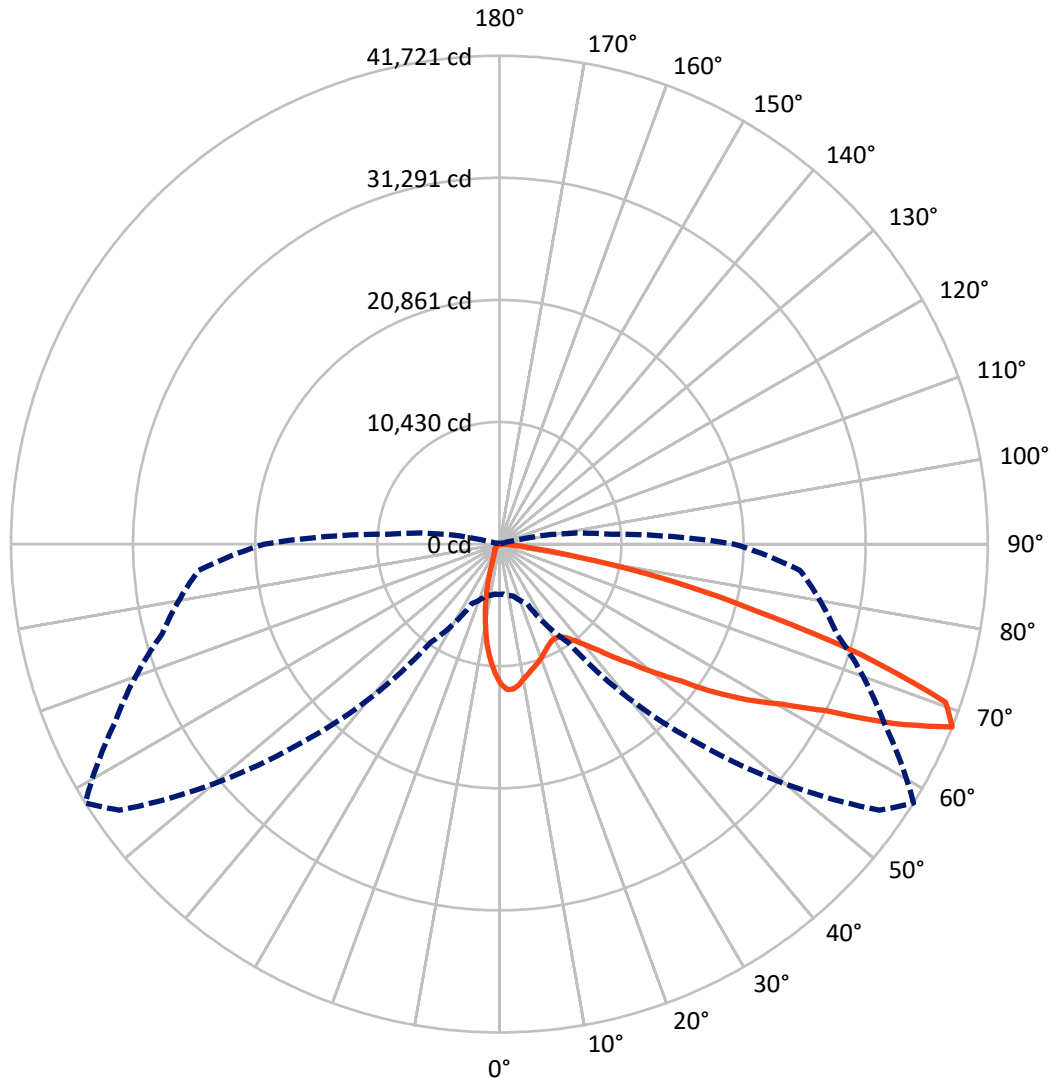
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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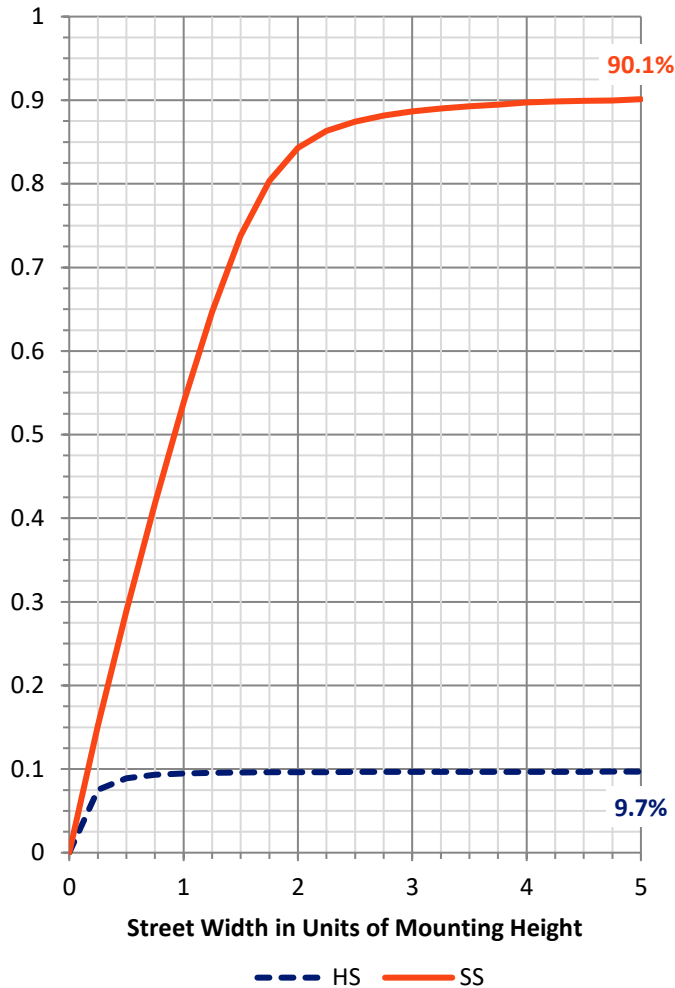
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4028.2   | 0.0    | 4028.2  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 37205.3  | 0.0    | 37205.3 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 41233.6  | 0.0    | 41233.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 966.5   | 2.3       |
| 10°-20°   | 2011.9  | 4.9       |
| 20°-30°   | 2713.1  | 6.6       |
| 30°-40°   | 3812.5  | 9.2       |
| 40°-50°   | 5888.0  | 14.3      |
| 50°-60°   | 9415.8  | 22.8      |
| 60°-70°   | 11149.0 | 27.0      |
| 70°-80°   | 4932.0  | 12.0      |
| 80°-90°   | 344.8   | 0.8       |
| 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°    | 41233.6 | 100.0     |
| 0°-180°   | 41233.6 | 100.0     |

**Coefficient of Utilization**

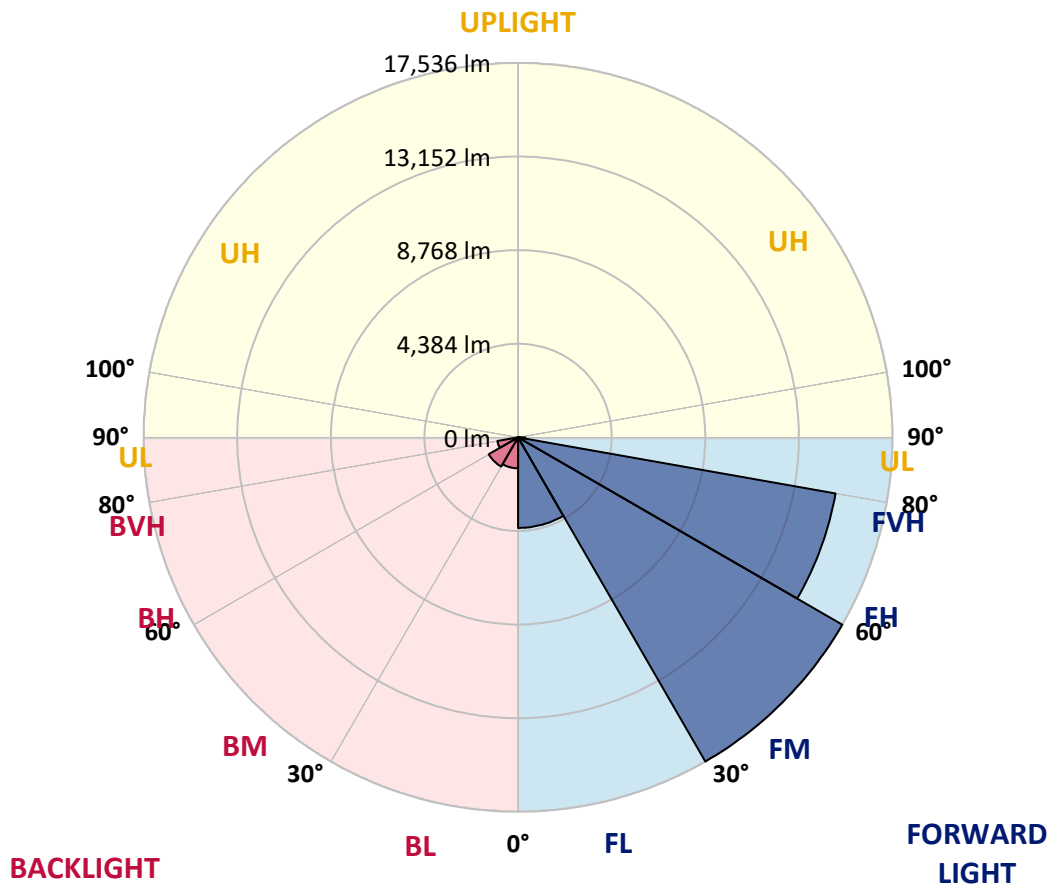


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4241.9  | 10.3      |                         |      |         |
| FM (30°-60°)   | 17535.8 | 42.5      |                         |      |         |
| FH (60°-80°)   | 15097.6 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 330.1   | 0.8       |                         |      | G3/500  |
| BL (0°-30°)    | 1449.6  | 3.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 1580.6  | 3.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 983.4   | 2.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 14.7    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 |
| 2.5°  | 12510.5 | 12532.4 | 12561.6 | 12598.1 | 12590.8 | 12557.9 | 12517.8 | 12426.5 | 12368.1 | 12185.7 | 11963.0 |
| 5°    | 12109.0 | 12105.4 | 12178.4 | 12247.7 | 12371.8 | 12437.5 | 12528.7 | 12444.8 | 12415.6 | 12196.6 | 11835.3 |
| 7.5°  | 11324.4 | 11364.5 | 11448.5 | 11558.0 | 11736.8 | 11930.2 | 12149.2 | 12123.6 | 12211.2 | 12065.2 | 11616.3 |
| 10°   | 10554.3 | 10532.4 | 10663.8 | 10828.1 | 11101.8 | 11349.9 | 11667.4 | 11663.8 | 11893.7 | 11879.1 | 11368.2 |
| 12.5° | 9879.2  | 9875.5  | 9977.7  | 10163.8 | 10485.0 | 10831.7 | 11262.3 | 11273.3 | 11558.0 | 11674.7 | 11156.5 |
| 15°   | 9309.9  | 9317.2  | 9415.7  | 9609.1  | 9941.2  | 10364.6 | 10864.5 | 10955.8 | 11276.9 | 11514.2 | 10948.5 |
| 17.5° | 8904.8  | 8908.4  | 8966.8  | 9134.7  | 9459.5  | 9912.0  | 10514.2 | 10638.3 | 11050.7 | 11393.7 | 10780.6 |
| 20°   | 8718.6  | 8704.0  | 8715.0  | 8798.9  | 9050.7  | 9463.1  | 10156.5 | 10317.1 | 10842.7 | 11309.8 | 10627.3 |
| 22.5° | 8744.2  | 8722.3  | 8671.2  | 8660.3  | 8773.4  | 9087.2  | 9777.0  | 9974.1  | 10616.4 | 11258.7 | 10488.6 |
| 25°   | 8970.5  | 8923.0  | 8850.0  | 8740.5  | 8696.7  | 8853.7  | 9444.9  | 9649.3  | 10404.7 | 11262.3 | 10382.8 |
| 27.5° | 9317.2  | 9266.1  | 9174.8  | 9028.9  | 8857.3  | 8791.6  | 9218.6  | 9412.0  | 10255.1 | 11346.3 | 10331.7 |
| 30°   | 9758.8  | 9718.6  | 9631.0  | 9455.8  | 9225.9  | 8955.9  | 9171.2  | 9331.8  | 10182.1 | 11517.8 | 10353.6 |
| 32.5° | 10280.6 | 10251.4 | 10178.4 | 10017.9 | 9755.1  | 9342.7  | 9331.8  | 9455.8  | 10240.5 | 11766.0 | 10437.6 |
| 35°   | 10784.3 | 10795.2 | 10798.9 | 10711.3 | 10430.3 | 9930.3  | 9773.3  | 9817.1  | 10481.4 | 12138.2 | 10627.3 |
| 37.5° | 11328.0 | 11302.5 | 11433.9 | 11495.9 | 11225.8 | 10693.0 | 10455.8 | 10459.5 | 10941.2 | 12689.3 | 10985.0 |
| 40°   | 11740.4 | 11747.7 | 12032.4 | 12287.9 | 12174.7 | 11660.1 | 11320.7 | 11317.1 | 11649.2 | 13444.7 | 11561.6 |
| 42.5° | 12127.3 | 12174.7 | 12594.4 | 13032.3 | 13189.3 | 12733.1 | 12488.6 | 12397.3 | 12641.9 | 14466.6 | 12426.5 |
| 45°   | 12539.7 | 12609.0 | 13196.6 | 13820.6 | 14233.0 | 13963.0 | 13769.5 | 13806.0 | 13835.2 | 15656.3 | 13590.7 |
| 47.5° | 13021.4 | 13065.2 | 13791.4 | 14671.0 | 15441.0 | 15371.7 | 15382.6 | 15338.8 | 15324.2 | 17156.3 | 15130.8 |
| 50°   | 13605.3 | 13707.5 | 14543.2 | 15594.3 | 16645.3 | 17105.2 | 17258.5 | 17276.7 | 17039.5 | 18791.3 | 16725.6 |
| 52.5° | 14846.1 | 14970.2 | 15685.5 | 16605.2 | 17959.2 | 18926.3 | 19550.3 | 19426.3 | 19061.3 | 20375.1 | 18473.7 |
| 55°   | 16309.6 | 16404.5 | 17094.2 | 18046.8 | 19564.9 | 20922.6 | 22404.3 | 22353.2 | 21459.0 | 22043.0 | 19911.6 |
| 57.5° | 16448.3 | 16554.1 | 17623.4 | 19083.2 | 21626.9 | 23389.6 | 24948.0 | 25112.2 | 23802.0 | 23225.4 | 21196.3 |
| 60°   | 14889.9 | 15105.3 | 16565.1 | 18528.5 | 22415.2 | 26707.0 | 27736.2 | 27769.0 | 25520.9 | 24426.1 | 22765.6 |
| 62.5° | 11933.8 | 12036.0 | 13506.8 | 16068.7 | 21199.9 | 28641.2 | 31995.1 | 31301.7 | 27728.9 | 26283.7 | 25250.9 |
| 65°   | 6255.2  | 6671.3  | 7952.3  | 10787.9 | 17192.8 | 27966.1 | 37119.0 | 36929.2 | 31699.5 | 28944.1 | 27185.1 |
| 67.5° | 4291.8  | 4288.2  | 4591.1  | 5623.9  | 10251.4 | 24079.4 | 39633.5 | 41721.0 | 36290.6 | 29856.5 | 25783.7 |
| 70°   | 3266.3  | 3277.2  | 3547.3  | 4218.8  | 5310.0  | 16028.6 | 36874.5 | 40443.7 | 37144.6 | 27108.5 | 20853.2 |
| 72.5° | 2167.8  | 2189.7  | 2638.6  | 3408.6  | 4240.7  | 7857.4  | 28655.8 | 32360.1 | 31254.3 | 21772.9 | 14678.3 |
| 75°   | 1295.6  | 1313.8  | 1635.0  | 2478.0  | 3769.9  | 4397.6  | 18207.3 | 22371.4 | 21513.8 | 15006.7 | 7868.3  |
| 77.5° | 532.8   | 547.4   | 839.4   | 1543.7  | 2759.0  | 3415.9  | 10069.0 | 14638.1 | 12886.4 | 5966.9  | 2149.6  |
| 80°   | 222.6   | 229.9   | 405.1   | 1080.3  | 1989.0  | 2142.3  | 4664.1  | 6879.3  | 5280.8  | 1284.6  | 656.9   |
| 82.5° | 80.3    | 83.9    | 149.6   | 594.9   | 1237.2  | 1613.1  | 2353.9  | 2718.9  | 1489.0  | 419.7   | 354.0   |
| 85°   | 3.6     | 3.6     | 36.5    | 200.7   | 470.8   | 456.2   | 1346.7  | 1302.9  | 492.7   | 175.2   | 211.7   |
| 87.5° | 0.0     | 0.0     | 3.6     | 3.6     | 7.3     | 18.2    | 127.7   | 226.3   | 105.8   | 43.8    | 91.2    |
| 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 | 11893.7 |
| 2.5°  | 11817.1 | 11623.6 | 11412.0 | 11214.9 | 10901.0 | 10714.9 | 10485.0 | 10382.8 | 10236.8 | 10200.3 | 10222.2 |
| 5°    | 11576.2 | 11244.1 | 10736.8 | 10277.0 | 9682.1  | 9204.0  | 8722.3  | 8517.9  | 8255.2  | 8080.0  | 8007.0  |
| 7.5°  | 11236.8 | 10802.5 | 10010.6 | 9174.8  | 8357.3  | 7485.1  | 6820.9  | 6383.0  | 5985.2  | 5766.2  | 5722.4  |
| 10°   | 10893.7 | 10328.1 | 9193.1  | 7996.0  | 6729.7  | 5685.9  | 4788.1  | 4123.9  | 3583.8  | 3339.3  | 3149.5  |
| 12.5° | 10539.7 | 9835.4  | 8361.0  | 6799.0  | 5328.3  | 3905.0  | 2795.5  | 2149.6  | 1762.7  | 1609.4  | 1635.0  |
| 15°   | 10214.9 | 9361.0  | 7536.2  | 5602.0  | 3751.7  | 2357.6  | 1543.7  | 1302.9  | 1211.6  | 1182.4  | 1178.8  |
| 17.5° | 9904.7  | 8912.1  | 6715.1  | 4437.8  | 2474.4  | 1445.2  | 1182.4  | 1124.0  | 1098.5  | 1083.9  | 1083.9  |
| 20°   | 9623.7  | 8481.4  | 5912.2  | 3342.9  | 1598.5  | 1145.9  | 1069.3  | 1040.1  | 1018.2  | 1007.3  | 1007.3  |
| 22.5° | 9361.0  | 8065.4  | 5127.5  | 2364.9  | 1178.8  | 1029.2  | 981.7   | 952.5   | 927.0   | 912.4   | 912.4   |
| 25°   | 9123.7  | 7689.5  | 4379.4  | 1627.7  | 1014.6  | 941.6   | 890.5   | 857.6   | 813.8   | 788.3   | 788.3   |
| 27.5° | 8952.2  | 7353.7  | 3660.4  | 1186.1  | 916.0   | 846.7   | 788.3   | 744.5   | 697.1   | 667.9   | 660.6   |
| 30°   | 8850.0  | 7069.1  | 2934.2  | 974.4   | 824.8   | 755.4   | 689.8   | 635.0   | 580.3   | 551.1   | 547.4   |
| 32.5° | 8791.6  | 6806.3  | 2270.0  | 850.3   | 748.1   | 667.9   | 594.9   | 536.5   | 481.7   | 448.9   | 445.2   |
| 35°   | 8813.5  | 6601.9  | 1700.7  | 766.4   | 675.2   | 591.2   | 510.9   | 452.5   | 405.1   | 375.9   | 368.6   |
| 37.5° | 9003.3  | 6510.7  | 1277.3  | 700.7   | 613.1   | 525.5   | 441.6   | 386.8   | 343.1   | 321.2   | 317.5   |
| 40°   | 9371.9  | 6528.9  | 1003.6  | 649.6   | 562.0   | 459.8   | 379.5   | 328.5   | 295.6   | 277.4   | 273.7   |
| 42.5° | 9944.9  | 6682.2  | 828.4   | 605.8   | 507.3   | 401.4   | 328.5   | 288.3   | 255.5   | 237.2   | 233.6   |
| 45°   | 10798.9 | 6999.7  | 722.6   | 554.7   | 448.9   | 346.7   | 284.7   | 248.2   | 219.0   | 197.1   | 193.4   |
| 47.5° | 12036.0 | 7550.8  | 653.3   | 507.3   | 397.8   | 299.3   | 244.5   | 208.0   | 182.5   | 164.2   | 160.6   |
| 50°   | 13353.5 | 8211.4  | 594.9   | 459.8   | 354.0   | 259.1   | 208.0   | 171.5   | 149.6   | 131.4   | 127.7   |
| 52.5° | 14758.6 | 8923.0  | 551.1   | 416.0   | 313.9   | 222.6   | 175.2   | 142.3   | 120.4   | 102.2   | 98.5    |
| 55°   | 16108.9 | 9638.3  | 500.0   | 386.8   | 266.4   | 189.8   | 146.0   | 116.8   | 94.9    | 80.3    | 80.3    |
| 57.5° | 17422.7 | 10295.2 | 445.2   | 339.4   | 219.0   | 160.6   | 120.4   | 94.9    | 76.6    | 65.7    | 62.0    |
| 60°   | 18992.0 | 11204.0 | 383.2   | 288.3   | 182.5   | 135.0   | 98.5    | 76.6    | 62.0    | 51.1    | 51.1    |
| 62.5° | 21324.0 | 12149.2 | 328.5   | 240.9   | 153.3   | 113.1   | 80.3    | 62.0    | 51.1    | 43.8    | 40.1    |
| 65°   | 22086.7 | 11638.2 | 277.4   | 197.1   | 124.1   | 91.2    | 65.7    | 54.7    | 43.8    | 40.1    | 36.5    |
| 67.5° | 20050.3 | 9539.8  | 229.9   | 160.6   | 102.2   | 76.6    | 58.4    | 47.4    | 40.1    | 36.5    | 32.8    |
| 70°   | 15645.4 | 6769.8  | 178.8   | 120.4   | 83.9    | 62.0    | 51.1    | 43.8    | 36.5    | 32.8    | 32.8    |
| 72.5° | 10641.9 | 4003.5  | 142.3   | 91.2    | 69.3    | 54.7    | 43.8    | 40.1    | 36.5    | 32.8    | 29.2    |
| 75°   | 5240.7  | 1423.3  | 109.5   | 69.3    | 54.7    | 47.4    | 40.1    | 36.5    | 32.8    | 29.2    | 29.2    |
| 77.5° | 1412.4  | 394.1   | 83.9    | 54.7    | 43.8    | 36.5    | 36.5    | 36.5    | 32.8    | 25.5    | 25.5    |
| 80°   | 478.1   | 164.2   | 62.0    | 40.1    | 36.5    | 29.2    | 25.5    | 32.8    | 29.2    | 25.5    | 21.9    |
| 82.5° | 262.8   | 80.3    | 43.8    | 32.8    | 25.5    | 21.9    | 21.9    | 21.9    | 21.9    | 18.2    | 18.2    |
| 85°   | 167.9   | 43.8    | 29.2    | 25.5    | 25.5    | 18.2    | 14.6    | 14.6    | 10.9    | 10.9    | 10.9    |
| 87.5° | 76.6    | 25.5    | 25.5    | 21.9    | 21.9    | 18.2    | 10.9    | 7.3     | 3.6     | 3.6     | 3.6     |
| 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)