

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: P640499

Luminaire Tested: GWS-SA5E-722-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-722-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

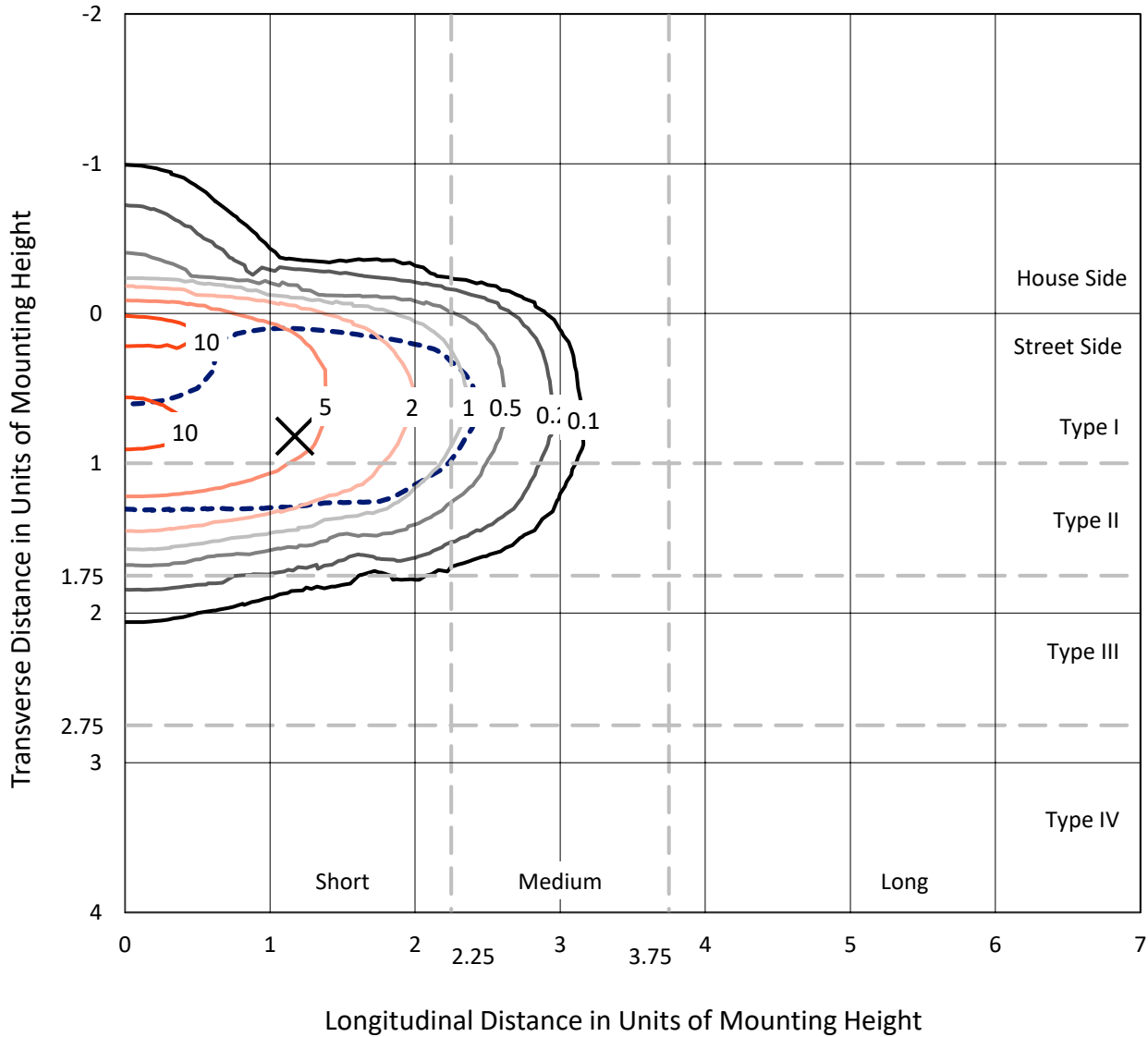
Lumens per Lamp: N/A  
Luminaire Lumens: 23189.1 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

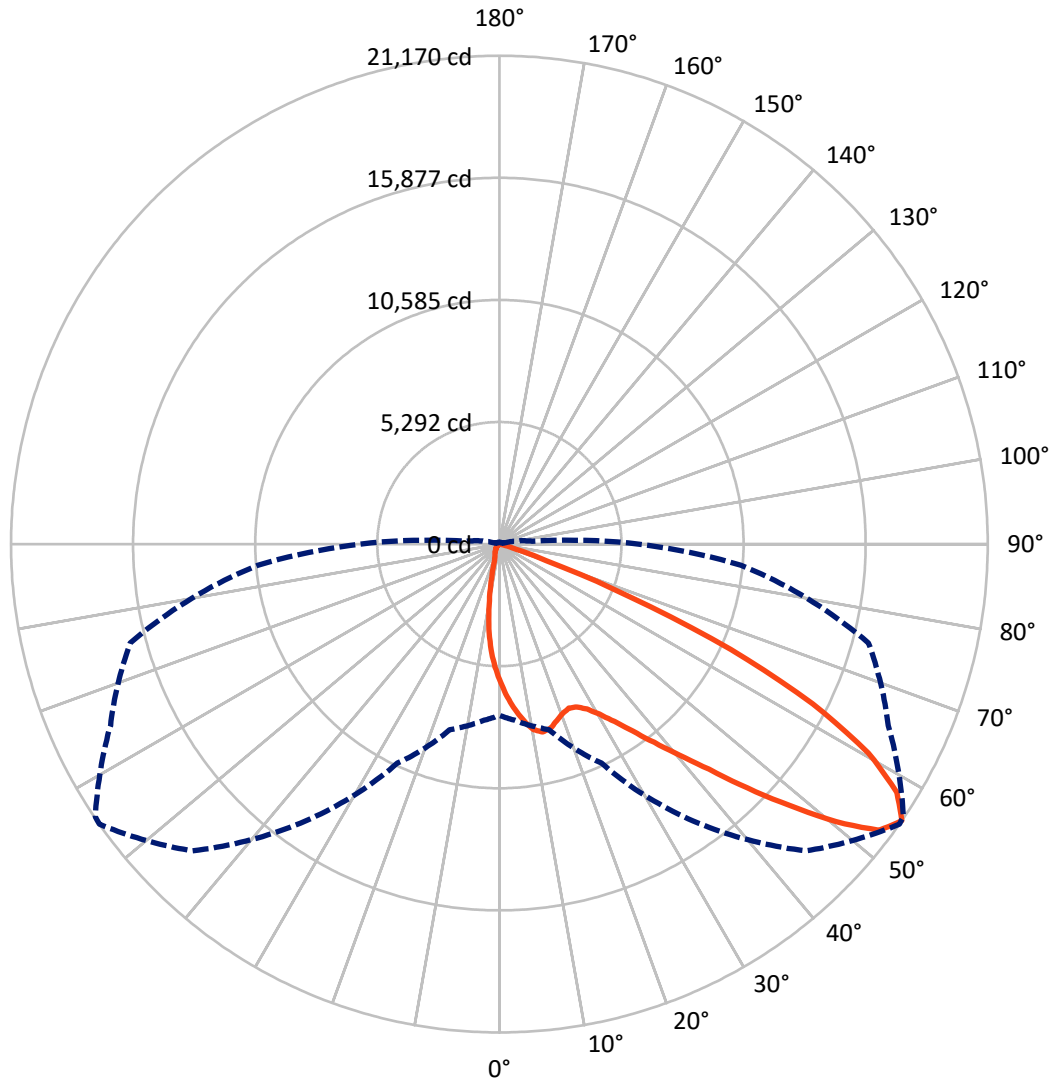
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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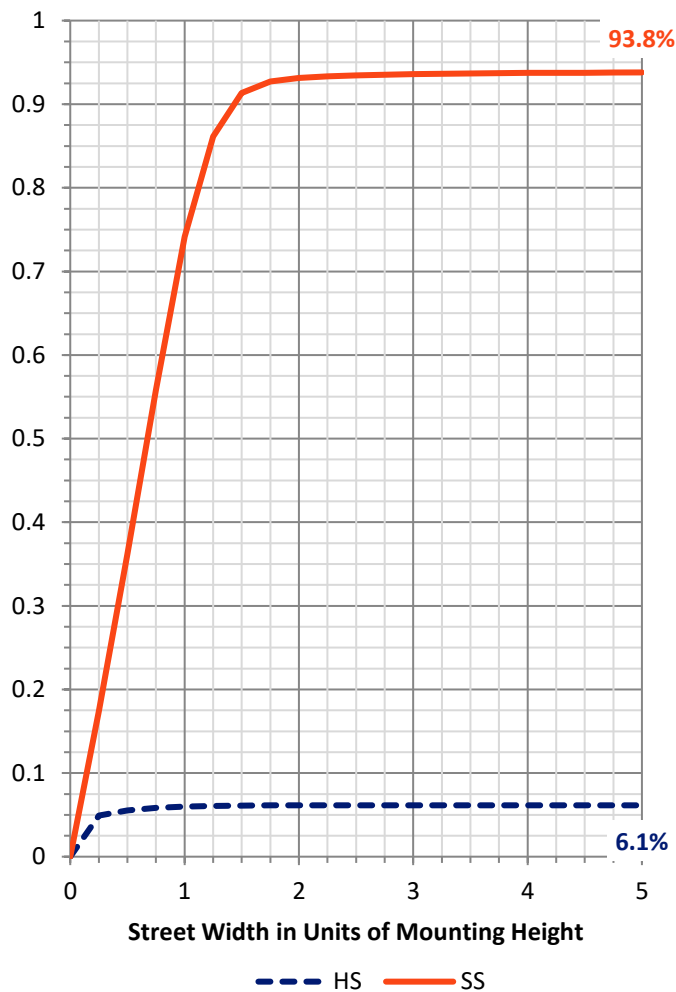
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1430.9   | 0.0    | 1430.9  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 21758.2  | 0.0    | 21758.2 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 23189.1  | 0.0    | 23189.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 529.4   | 2.3       |
| 10°-20°   | 1276.4  | 5.5       |
| 20°-30°   | 2125.7  | 9.2       |
| 30°-40°   | 3622.3  | 15.6      |
| 40°-50°   | 5912.9  | 25.5      |
| 50°-60°   | 6190.5  | 26.7      |
| 60°-70°   | 3122.4  | 13.5      |
| 70°-80°   | 394.4   | 1.7       |
| 80°-90°   | 15.0    | 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°    | 23189.1 | 100.0     |
| 0°-180°   | 23189.1 | 100.0     |

**Coefficient of Utilization**



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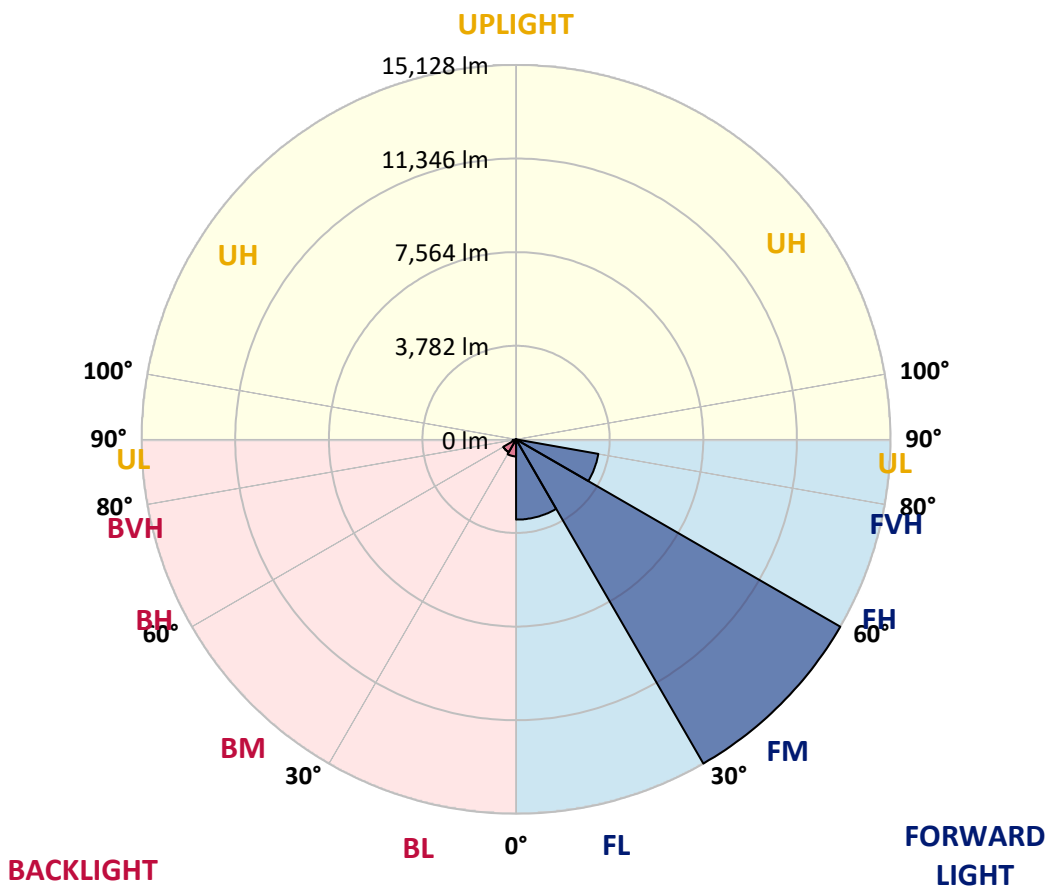
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3243.8  | 14.0      |                         |      |         |
| FM (30°-60°)   | 15127.5 | 65.2      |                         |      |         |
| FH (60°-80°)   | 3373.2  | 14.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 13.6    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 687.7   | 3.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 598.2   | 2.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 143.5   | 0.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.4     | 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°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5990.7  | 5990.7  | 5990.7  | 5990.7  | 5990.7  | 5990.7  | 5990.7  | 5990.7  | 5990.7  | 5990.7  | 5990.7  |
| 2.5°  | 6983.9  | 6950.2  | 7001.7  | 6942.2  | 6841.1  | 6755.9  | 6644.9  | 6605.2  | 6426.8  | 6258.3  | 6095.8  |
| 5°    | 7832.3  | 7842.2  | 7826.4  | 7743.1  | 7600.4  | 7441.8  | 7217.8  | 7168.2  | 6857.0  | 6535.9  | 6188.9  |
| 7.5°  | 8042.5  | 8036.5  | 8070.2  | 8101.9  | 8078.1  | 7998.8  | 7755.0  | 7705.5  | 7318.9  | 6837.2  | 6331.7  |
| 10°   | 7394.2  | 7398.2  | 7467.6  | 7681.7  | 7947.3  | 8222.8  | 8185.2  | 8157.4  | 7778.8  | 7178.1  | 6490.3  |
| 12.5° | 6478.4  | 6514.0  | 6587.4  | 6892.7  | 7342.7  | 7969.1  | 8357.6  | 8385.4  | 8201.0  | 7552.8  | 6676.6  |
| 15°   | 6081.9  | 6089.8  | 6149.3  | 6333.7  | 6668.7  | 7441.8  | 8284.3  | 8361.6  | 8553.9  | 7929.5  | 6878.8  |
| 17.5° | 6072.0  | 6081.9  | 6107.7  | 6188.9  | 6407.0  | 7027.5  | 8048.4  | 8183.2  | 8819.5  | 8333.9  | 7120.7  |
| 20°   | 6444.7  | 6438.7  | 6420.9  | 6377.3  | 6472.4  | 6890.7  | 7830.3  | 7979.0  | 8964.3  | 8728.4  | 7364.5  |
| 22.5° | 7120.7  | 7112.7  | 7033.4  | 6853.0  | 6775.7  | 7015.6  | 7723.3  | 7858.1  | 9051.5  | 9079.2  | 7564.7  |
| 25°   | 7899.7  | 7955.2  | 7806.6  | 7533.0  | 7342.7  | 7334.7  | 7818.4  | 7913.6  | 9126.8  | 9390.5  | 7701.5  |
| 27.5° | 8754.1  | 8772.0  | 8645.1  | 8337.8  | 8062.3  | 7846.2  | 8094.0  | 8165.4  | 9210.1  | 9668.0  | 7778.8  |
| 30°   | 9691.8  | 9685.8  | 9541.1  | 9184.3  | 8849.3  | 8538.0  | 8557.9  | 8585.6  | 9404.3  | 9985.2  | 7864.0  |
| 32.5° | 10863.4 | 10889.1 | 10631.4 | 10145.7 | 9743.3  | 9313.1  | 9164.5  | 9168.4  | 9755.2  | 10393.5 | 7992.9  |
| 35°   | 12455.2 | 12391.8 | 12050.8 | 11358.9 | 10673.0 | 10209.2 | 9955.4  | 9933.6  | 10296.4 | 10942.7 | 8216.9  |
| 37.5° | 13971.7 | 13977.7 | 13620.8 | 12859.6 | 11993.3 | 11261.8 | 10903.0 | 10843.5 | 11057.6 | 11703.9 | 8589.6  |
| 40°   | 15024.3 | 15044.2 | 14895.5 | 14497.0 | 13579.2 | 12544.4 | 12017.1 | 11955.6 | 12044.8 | 12667.3 | 9077.2  |
| 42.5° | 15581.4 | 15636.9 | 15678.5 | 15771.7 | 15075.9 | 14146.2 | 13335.4 | 13329.4 | 13236.2 | 13765.5 | 9642.2  |
| 45°   | 15603.2 | 15686.4 | 15940.2 | 16576.5 | 16655.8 | 15973.9 | 15091.7 | 14958.9 | 14600.1 | 14941.1 | 10147.7 |
| 47.5° | 14740.9 | 14933.2 | 15472.4 | 16733.1 | 17565.7 | 17791.7 | 16917.5 | 16836.2 | 15829.2 | 15870.8 | 10526.4 |
| 50°   | 12730.7 | 12931.0 | 13924.1 | 15930.3 | 17795.7 | 19234.9 | 18921.7 | 18753.2 | 16856.0 | 16485.3 | 10708.7 |
| 52.5° | 10669.1 | 10851.5 | 11525.5 | 14019.3 | 16842.2 | 19688.8 | 20610.6 | 20410.4 | 17777.8 | 16699.4 | 10633.4 |
| 55°   | 7424.0  | 7667.8  | 8325.9  | 10478.8 | 14645.7 | 18804.7 | 21169.7 | 21128.0 | 18600.5 | 16564.6 | 10516.4 |
| 57.5° | 3639.6  | 3881.5  | 4537.6  | 6460.5  | 10849.5 | 16417.9 | 20315.3 | 20535.3 | 19092.2 | 16419.9 | 10421.3 |
| 60°   | 1520.5  | 1619.6  | 1845.6  | 2834.8  | 6070.0  | 12407.6 | 18386.4 | 18691.7 | 18790.8 | 16223.7 | 10411.4 |
| 62.5° | 882.2   | 898.0   | 921.8   | 1175.5  | 2361.0  | 7112.7  | 15252.3 | 15686.4 | 17206.9 | 15964.0 | 10254.8 |
| 65°   | 666.1   | 672.0   | 662.1   | 721.6   | 975.3   | 2698.0  | 11020.0 | 11610.7 | 14362.2 | 14949.0 | 9636.3  |
| 67.5° | 547.1   | 547.1   | 521.4   | 533.3   | 612.6   | 1011.0  | 6083.9  | 6908.5  | 10627.5 | 12286.7 | 7957.2  |
| 70°   | 436.1   | 446.0   | 434.1   | 418.3   | 438.1   | 559.0   | 2164.7  | 2684.1  | 6188.9  | 7255.5  | 4640.7  |
| 72.5° | 331.1   | 331.1   | 350.9   | 339.0   | 325.1   | 350.9   | 755.3   | 848.5   | 2483.9  | 3025.1  | 1675.1  |
| 75°   | 255.7   | 263.7   | 277.5   | 265.6   | 245.8   | 208.1   | 362.8   | 384.6   | 749.3   | 703.7   | 374.7   |
| 77.5° | 130.8   | 132.8   | 176.4   | 194.3   | 182.4   | 126.9   | 158.6   | 174.4   | 243.8   | 218.1   | 138.8   |
| 80°   | 79.3    | 83.3    | 99.1    | 152.6   | 120.9   | 67.4    | 65.4    | 69.4    | 115.0   | 99.1    | 57.5    |
| 82.5° | 33.7    | 35.7    | 55.5    | 55.5    | 49.6    | 25.8    | 25.8    | 25.8    | 55.5    | 51.5    | 23.8    |
| 85°   | 0.0     | 0.0     | 9.9     | 7.9     | 7.9     | 9.9     | 9.9     | 9.9     | 13.9    | 19.8    | 11.9    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.0     | 5.9     | 5.9     |
| 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°    | 5990.7 | 5990.7 | 5990.7 | 5990.7 | 5990.7 | 5990.7 | 5990.7 | 5990.7 | 5990.7 | 5990.7 | 5990.7 |
| 2.5°  | 5990.7 | 5863.8 | 5693.4 | 5538.7 | 5330.6 | 5213.6 | 5051.1 | 4918.2 | 4805.3 | 4769.6 | 4753.7 |
| 5°    | 5992.7 | 5774.6 | 5409.9 | 5045.1 | 4597.1 | 4244.2 | 3881.5 | 3594.0 | 3358.1 | 3282.8 | 3263.0 |
| 7.5°  | 6032.3 | 5711.2 | 5120.4 | 4458.3 | 3709.0 | 3090.5 | 2537.4 | 2041.8 | 1811.9 | 1734.6 | 1718.7 |
| 10°   | 6085.9 | 5657.7 | 4785.4 | 3754.6 | 2678.2 | 1883.2 | 1334.1 | 1017.0 | 866.3  | 783.0  | 794.9  |
| 12.5° | 6155.2 | 5614.1 | 4414.7 | 2993.4 | 1772.2 | 1034.8 | 733.5  | 614.5  | 582.8  | 567.0  | 559.0  |
| 15°   | 6248.4 | 5562.5 | 3954.8 | 2238.1 | 1086.3 | 666.1  | 565.0  | 533.3  | 521.4  | 513.4  | 511.5  |
| 17.5° | 6343.6 | 5503.0 | 3487.0 | 1574.0 | 721.6  | 553.1  | 507.5  | 491.6  | 483.7  | 477.7  | 475.8  |
| 20°   | 6444.7 | 5401.9 | 2937.9 | 1084.4 | 568.9  | 497.6  | 467.8  | 450.0  | 440.1  | 430.2  | 428.2  |
| 22.5° | 6488.3 | 5239.4 | 2412.5 | 759.2  | 505.5  | 457.9  | 420.3  | 398.5  | 386.6  | 378.6  | 378.6  |
| 25°   | 6446.6 | 4975.7 | 1869.4 | 576.9  | 459.9  | 414.3  | 376.6  | 352.9  | 342.9  | 335.0  | 335.0  |
| 27.5° | 6335.6 | 4636.8 | 1363.9 | 477.7  | 410.3  | 368.7  | 333.0  | 311.2  | 303.3  | 299.3  | 299.3  |
| 30°   | 6212.7 | 4208.6 | 961.4  | 410.3  | 354.8  | 321.1  | 291.4  | 277.5  | 275.5  | 271.6  | 271.6  |
| 32.5° | 6107.7 | 3808.1 | 662.1  | 360.8  | 313.2  | 279.5  | 259.7  | 253.7  | 255.7  | 251.8  | 253.7  |
| 35°   | 6050.2 | 3415.6 | 491.6  | 321.1  | 279.5  | 247.8  | 237.9  | 237.9  | 237.9  | 235.9  | 235.9  |
| 37.5° | 6074.0 | 3029.1 | 400.4  | 293.4  | 249.8  | 226.0  | 216.1  | 220.0  | 224.0  | 224.0  | 224.0  |
| 40°   | 6192.9 | 2686.1 | 354.8  | 267.6  | 224.0  | 206.2  | 198.2  | 204.2  | 210.1  | 214.1  | 214.1  |
| 42.5° | 6343.6 | 2408.6 | 321.1  | 245.8  | 206.2  | 186.3  | 182.4  | 188.3  | 194.3  | 198.2  | 198.2  |
| 45°   | 6438.7 | 2129.1 | 287.4  | 218.1  | 188.3  | 164.5  | 164.5  | 172.5  | 170.5  | 172.5  | 172.5  |
| 47.5° | 6482.3 | 1907.0 | 253.7  | 188.3  | 160.6  | 142.7  | 144.7  | 148.7  | 144.7  | 148.7  | 148.7  |
| 50°   | 6375.3 | 1683.0 | 224.0  | 156.6  | 132.8  | 124.9  | 128.9  | 126.9  | 126.9  | 134.8  | 134.8  |
| 52.5° | 6179.0 | 1516.5 | 198.2  | 132.8  | 113.0  | 111.0  | 115.0  | 107.0  | 109.0  | 109.0  | 107.0  |
| 55°   | 6034.3 | 1421.4 | 176.4  | 115.0  | 97.1   | 99.1   | 97.1   | 83.3   | 75.3   | 67.4   | 65.4   |
| 57.5° | 5963.0 | 1383.7 | 160.6  | 103.1  | 87.2   | 87.2   | 79.3   | 57.5   | 43.6   | 33.7   | 29.7   |
| 60°   | 5947.1 | 1338.1 | 144.7  | 89.2   | 77.3   | 73.3   | 57.5   | 33.7   | 21.8   | 15.9   | 13.9   |
| 62.5° | 5796.4 | 1227.1 | 130.8  | 71.4   | 67.4   | 59.5   | 35.7   | 19.8   | 11.9   | 7.9    | 5.9    |
| 65°   | 5302.8 | 1009.0 | 117.0  | 55.5   | 51.5   | 43.6   | 21.8   | 11.9   | 5.9    | 2.0    | 0.0    |
| 67.5° | 4218.5 | 715.6  | 103.1  | 41.6   | 35.7   | 27.8   | 13.9   | 7.9    | 2.0    | 0.0    | 0.0    |
| 70°   | 2432.4 | 386.6  | 85.2   | 29.7   | 23.8   | 17.8   | 9.9    | 4.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 812.8  | 180.4  | 65.4   | 19.8   | 17.8   | 13.9   | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 178.4  | 107.0  | 43.6   | 13.9   | 11.9   | 9.9    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 67.4   | 75.3   | 21.8   | 9.9    | 7.9    | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 25.8   | 49.6   | 9.9    | 5.9    | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 13.9   | 19.8   | 5.9    | 4.0    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 7.9    | 9.9    | 4.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.0    | 2.0    | 2.0    | 2.0    | 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)