

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: P643797

Luminaire Tested: GWS-SA6F-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-760-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

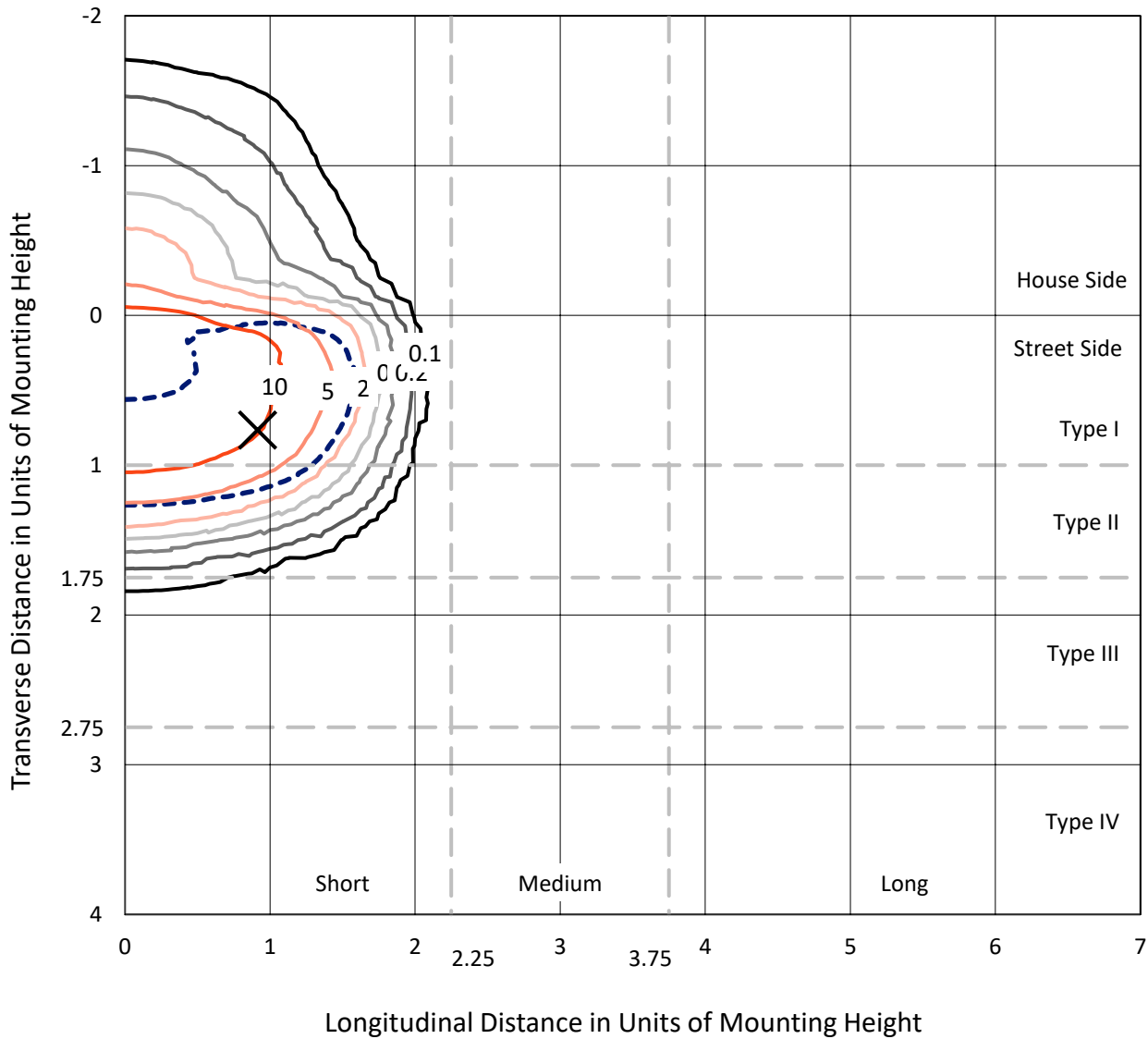
Lumens per Lamp: N/A  
Luminaire Lumens: 37817.5 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

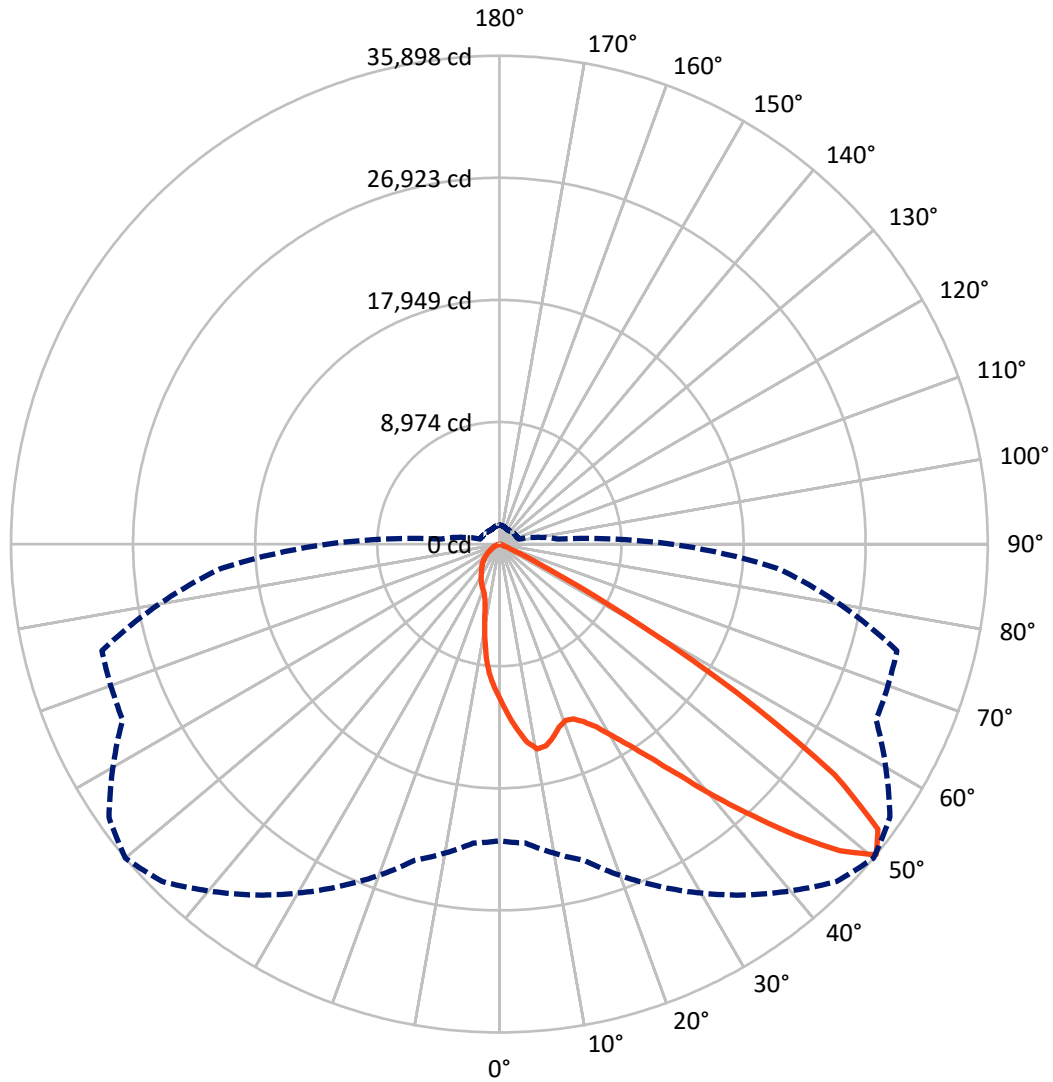
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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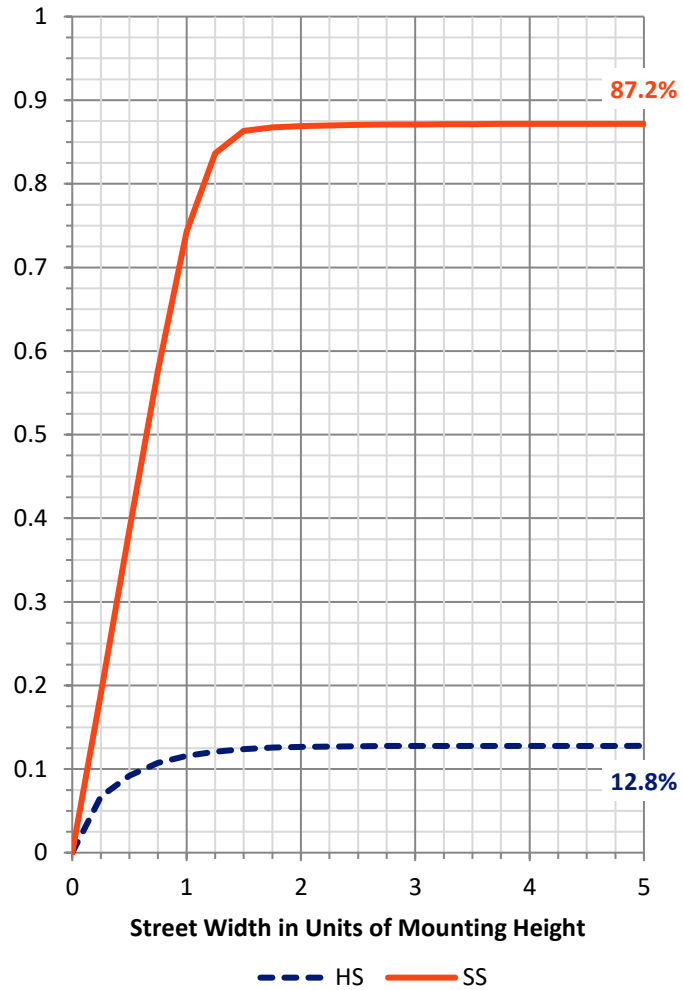
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4859.0   | 0.0    | 4859.0  |
|                    | % Fixture | 12.8     | 0.0    | 12.8    |
| <b>Street Side</b> | Lumens    | 32958.5  | 0.0    | 32958.5 |
|                    | % Fixture | 87.2     | 0.0    | 87.2    |
| <b>Total</b>       | Lumens    | 37817.5  | 0.0    | 37817.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1062.8  | 2.8       |
| 10°-20°   | 2742.2  | 7.3       |
| 20°-30°   | 4525.6  | 12.0      |
| 30°-40°   | 7468.2  | 19.7      |
| 40°-50°   | 11816.4 | 31.2      |
| 50°-60°   | 8946.4  | 23.7      |
| 60°-70°   | 1119.7  | 3.0       |
| 70°-80°   | 126.7   | 0.3       |
| 80°-90°   | 9.7     | 0.0       |
| 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°    | 37817.5 | 100.0     |
| 0°-180°   | 37817.5 | 100.0     |

**Coefficient of Utilization**



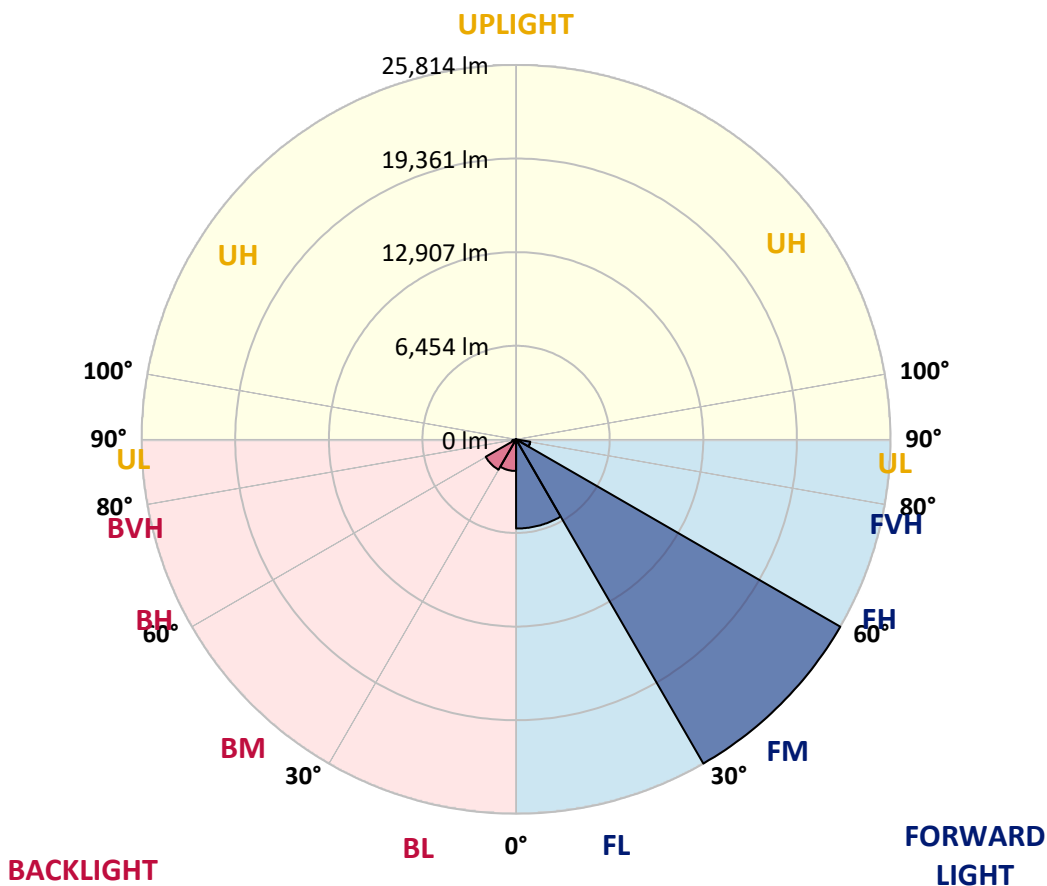
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6149.7  | 16.3      |                         |      |         |
| FM (30°-60°)   | 25814.4 | 68.3      |                         |      |         |
| FH (60°-80°)   | 989.9   | 2.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 4.5     | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 2180.9  | 5.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 2416.5  | 6.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 256.4   | 0.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.2     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 50°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 |
| 2.5°  | 13055.4 | 13159.8 | 13131.0 | 12994.2 | 12846.6 | 12742.2 | 12580.2 | 12529.8 | 12162.7 | 11907.1 | 11637.2 |
| 5°    | 14632.0 | 14664.4 | 14628.4 | 14462.8 | 14203.6 | 13955.2 | 13688.9 | 13534.1 | 12918.6 | 12364.3 | 11799.2 |
| 7.5°  | 15009.9 | 14970.3 | 15038.7 | 15121.5 | 15085.5 | 14977.5 | 14696.7 | 14527.6 | 13793.3 | 12889.8 | 12033.1 |
| 10°   | 13829.3 | 13739.3 | 13994.8 | 14423.2 | 14873.1 | 15380.7 | 15308.7 | 15323.1 | 14646.4 | 13552.1 | 12339.1 |
| 12.5° | 12263.5 | 12227.5 | 12418.3 | 12915.0 | 13796.9 | 14948.7 | 15225.9 | 15690.2 | 15427.4 | 14268.4 | 12688.2 |
| 15°   | 11576.0 | 11594.0 | 11709.2 | 12022.3 | 12655.8 | 14088.4 | 14754.3 | 15593.0 | 16125.7 | 14963.1 | 13073.4 |
| 17.5° | 11680.4 | 11745.2 | 11741.6 | 11845.9 | 12231.1 | 13379.3 | 14156.8 | 15287.1 | 16665.7 | 15762.2 | 13516.1 |
| 20°   | 12389.5 | 12454.3 | 12357.1 | 12277.9 | 12407.5 | 13199.4 | 13843.7 | 14977.5 | 17029.2 | 16568.5 | 13984.0 |
| 22.5° | 13451.3 | 13526.9 | 13296.5 | 13069.8 | 12987.0 | 13494.5 | 13962.4 | 14851.5 | 17306.4 | 17306.4 | 14401.6 |
| 25°   | 14736.3 | 14840.7 | 14484.4 | 14081.2 | 13850.9 | 14117.2 | 14470.0 | 15135.9 | 17590.7 | 17968.7 | 14685.9 |
| 27.5° | 16172.5 | 16176.1 | 15870.2 | 15416.6 | 14984.7 | 15017.1 | 15229.5 | 15776.6 | 17903.9 | 18681.4 | 14909.1 |
| 30°   | 17788.7 | 17799.5 | 17392.8 | 16849.2 | 16305.7 | 16158.1 | 16338.1 | 16752.1 | 18555.4 | 19577.7 | 15218.7 |
| 32.5° | 19876.4 | 19926.8 | 19343.7 | 18544.6 | 17839.1 | 17561.9 | 17666.3 | 18101.9 | 19592.1 | 20700.7 | 15683.0 |
| 35°   | 22698.4 | 22752.4 | 21892.1 | 20837.5 | 19714.4 | 19296.9 | 19401.3 | 19840.4 | 21093.1 | 22295.3 | 16424.5 |
| 37.5° | 25484.4 | 25556.4 | 24685.4 | 23702.7 | 22162.1 | 21471.0 | 21579.0 | 21996.5 | 23346.3 | 24498.2 | 17612.3 |
| 40°   | 27410.2 | 27507.4 | 27237.4 | 26575.1 | 25146.1 | 24239.0 | 24368.6 | 24519.8 | 25826.4 | 27133.0 | 19152.9 |
| 42.5° | 28425.2 | 28562.0 | 28677.2 | 29015.5 | 28263.3 | 27503.8 | 27284.2 | 27295.0 | 28349.6 | 29818.2 | 20754.7 |
| 45°   | 28486.4 | 28619.6 | 29209.9 | 30516.5 | 31088.9 | 30930.5 | 30530.9 | 30261.0 | 30275.4 | 31607.2 | 21755.4 |
| 47.5° | 26506.7 | 26755.1 | 27860.1 | 30419.3 | 32571.8 | 33885.7 | 33684.1 | 33043.4 | 31085.3 | 31726.0 | 21647.4 |
| 50°   | 21816.6 | 22061.3 | 24069.8 | 27752.1 | 31492.0 | 35066.3 | 35897.8 | 35037.5 | 30556.1 | 30246.6 | 20535.1 |
| 52.5° | 15845.0 | 15870.2 | 17173.2 | 21474.6 | 27115.0 | 32888.6 | 34846.7 | 34763.9 | 29749.8 | 28454.0 | 19016.1 |
| 55°   | 7526.5  | 7436.6  | 8901.6  | 12119.5 | 18753.4 | 26600.3 | 29901.0 | 30836.9 | 28605.2 | 27158.2 | 17839.1 |
| 57.5° | 2192.1  | 2235.3  | 2886.8  | 4729.7  | 9380.3  | 17000.4 | 20477.5 | 22219.7 | 23479.5 | 22327.7 | 13836.5 |
| 60°   | 982.7   | 986.3   | 1097.8  | 1439.8  | 3124.4  | 7908.1  | 10586.1 | 12742.2 | 14038.0 | 13008.6 | 6864.2  |
| 62.5° | 712.7   | 716.3   | 759.5   | 813.5   | 1061.9  | 2678.0  | 3970.2  | 5291.3  | 5388.4  | 3527.5  | 1738.6  |
| 65°   | 593.9   | 593.9   | 601.1   | 601.1   | 637.1   | 957.5   | 1205.8  | 1555.0  | 1310.2  | 971.9   | 680.3   |
| 67.5° | 478.7   | 482.3   | 489.5   | 489.5   | 478.7   | 478.7   | 518.3   | 568.7   | 608.3   | 752.3   | 626.3   |
| 70°   | 374.3   | 370.7   | 370.7   | 374.3   | 363.5   | 309.6   | 334.8   | 381.5   | 417.5   | 586.7   | 543.5   |
| 72.5° | 291.6   | 295.2   | 291.6   | 277.2   | 252.0   | 183.6   | 198.0   | 248.4   | 266.4   | 367.1   | 367.1   |
| 75°   | 219.6   | 223.2   | 208.8   | 158.4   | 104.4   | 57.6    | 75.6    | 122.4   | 154.8   | 180.0   | 133.2   |
| 77.5° | 28.8    | 28.8    | 21.6    | 21.6    | 18.0    | 21.6    | 21.6    | 28.8    | 43.2    | 43.2    | 32.4    |
| 80°   | 3.6     | 3.6     | 3.6     | 7.2     | 10.8    | 14.4    | 14.4    | 14.4    | 14.4    | 18.0    | 18.0    |
| 82.5° | 3.6     | 3.6     | 3.6     | 3.6     | 10.8    | 10.8    | 14.4    | 14.4    | 14.4    | 14.4    | 14.4    |
| 85°   | 0.0     | 0.0     | 0.0     | 3.6     | 7.2     | 10.8    | 10.8    | 14.4    | 14.4    | 14.4    | 14.4    |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.6     | 7.2     | 10.8    | 10.8    | 10.8    | 14.4    | 14.4    | 14.4    |
| 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°    | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 | 11457.2 |
| 2.5°  | 11475.2 | 11266.4 | 11014.5 | 10841.7 | 10596.9 | 10434.9 | 10204.6 | 10049.8 | 9916.6  | 9812.2  | 9869.8  |
| 5°    | 11478.8 | 11147.6 | 10632.9 | 10193.8 | 9715.0  | 9275.9  | 8804.4  | 8433.6  | 8098.9  | 7947.7  | 8030.5  |
| 7.5°  | 11550.8 | 11075.7 | 10287.4 | 9506.3  | 8588.4  | 7681.3  | 6831.8  | 6140.7  | 5798.8  | 5636.8  | 5687.2  |
| 10°   | 11691.2 | 11043.3 | 9902.2  | 8606.4  | 7116.2  | 5878.0  | 5053.7  | 4585.8  | 4395.0  | 4294.2  | 4312.2  |
| 12.5° | 11820.7 | 11021.7 | 9401.9  | 7422.2  | 5615.2  | 4560.6  | 4132.2  | 4067.4  | 4107.0  | 4110.6  | 4107.0  |
| 15°   | 11997.1 | 10982.1 | 8782.8  | 6205.5  | 4492.2  | 3941.4  | 3952.2  | 4045.8  | 4139.4  | 4168.2  | 4161.0  |
| 17.5° | 12184.3 | 10920.9 | 7983.7  | 5039.3  | 3811.9  | 3761.5  | 3887.5  | 4013.4  | 4107.0  | 4121.4  | 4125.0  |
| 20°   | 12378.7 | 10794.9 | 7073.0  | 4114.2  | 3495.1  | 3624.7  | 3765.1  | 3858.7  | 3927.1  | 3948.6  | 3955.8  |
| 22.5° | 12468.7 | 10528.5 | 6022.0  | 3451.9  | 3282.7  | 3455.5  | 3559.9  | 3682.3  | 3703.9  | 3624.7  | 3639.1  |
| 25°   | 12421.9 | 10078.6 | 4996.1  | 3005.6  | 3070.4  | 3243.1  | 3397.9  | 3336.7  | 3246.7  | 3189.2  | 3207.2  |
| 27.5° | 12274.3 | 9481.1  | 3991.8  | 2678.0  | 2843.6  | 3063.2  | 3081.2  | 3012.8  | 2998.4  | 2951.6  | 2966.0  |
| 30°   | 12115.9 | 8793.6  | 3210.8  | 2415.3  | 2613.2  | 2843.6  | 2789.6  | 2814.8  | 2818.4  | 2764.4  | 2782.4  |
| 32.5° | 12018.7 | 8073.7  | 2555.6  | 2238.9  | 2465.7  | 2508.8  | 2616.8  | 2667.2  | 2670.8  | 2544.8  | 2566.4  |
| 35°   | 12051.1 | 7364.6  | 2163.3  | 2094.9  | 2328.9  | 2318.1  | 2469.3  | 2498.1  | 2289.3  | 2116.5  | 2134.5  |
| 37.5° | 12313.9 | 6709.5  | 1940.1  | 1983.3  | 2091.3  | 2174.1  | 2289.3  | 2098.5  | 2051.7  | 1972.5  | 1983.3  |
| 40°   | 12803.4 | 6151.5  | 1806.9  | 1914.9  | 1929.3  | 2062.5  | 1886.1  | 1911.3  | 1914.9  | 1864.5  | 1875.3  |
| 42.5° | 13375.7 | 5687.2  | 1727.8  | 1875.3  | 1839.3  | 1860.9  | 1684.6  | 1735.0  | 1789.0  | 1767.4  | 1771.0  |
| 45°   | 13663.7 | 5233.7  | 1659.4  | 1738.6  | 1749.4  | 1544.2  | 1504.6  | 1558.6  | 1627.0  | 1637.8  | 1641.4  |
| 47.5° | 13408.1 | 4801.7  | 1587.4  | 1540.6  | 1612.6  | 1407.4  | 1360.6  | 1378.6  | 1457.8  | 1501.0  | 1508.2  |
| 50°   | 12627.0 | 4305.0  | 1479.4  | 1364.2  | 1324.6  | 1263.4  | 1220.2  | 1223.8  | 1313.8  | 1389.4  | 1403.8  |
| 52.5° | 11529.2 | 3786.7  | 1303.0  | 1155.4  | 1065.5  | 1112.2  | 1123.0  | 1101.4  | 1184.2  | 1259.8  | 1274.2  |
| 55°   | 10463.7 | 3138.8  | 1033.1  | 939.5   | 856.7   | 957.5   | 986.3   | 957.5   | 982.7   | 1033.1  | 1036.7  |
| 57.5° | 7368.2  | 1774.6  | 791.9   | 777.5   | 709.1   | 820.7   | 867.5   | 824.3   | 781.1   | 813.5   | 820.7   |
| 60°   | 3415.9  | 928.7   | 608.3   | 608.3   | 590.3   | 705.5   | 784.7   | 723.5   | 640.7   | 655.1   | 665.9   |
| 62.5° | 1069.1  | 586.7   | 446.3   | 421.1   | 482.3   | 601.1   | 665.9   | 604.7   | 507.5   | 507.5   | 521.9   |
| 65°   | 604.7   | 503.9   | 352.8   | 324.0   | 392.3   | 482.3   | 521.9   | 457.1   | 370.7   | 363.5   | 363.5   |
| 67.5° | 561.5   | 478.7   | 313.2   | 262.8   | 277.2   | 309.6   | 324.0   | 280.8   | 255.6   | 252.0   | 255.6   |
| 70°   | 464.3   | 399.5   | 252.0   | 180.0   | 169.2   | 165.6   | 172.8   | 162.0   | 154.8   | 158.4   | 169.2   |
| 72.5° | 288.0   | 241.2   | 158.4   | 108.0   | 93.6    | 90.0    | 90.0    | 90.0    | 86.4    | 86.4    | 86.4    |
| 75°   | 104.4   | 90.0    | 72.0    | 54.0    | 46.8    | 43.2    | 43.2    | 46.8    | 43.2    | 39.6    | 36.0    |
| 77.5° | 32.4    | 28.8    | 28.8    | 28.8    | 25.2    | 21.6    | 18.0    | 18.0    | 14.4    | 10.8    | 10.8    |
| 80°   | 18.0    | 18.0    | 18.0    | 18.0    | 14.4    | 14.4    | 10.8    | 7.2     | 3.6     | 3.6     | 0.0     |
| 82.5° | 18.0    | 18.0    | 18.0    | 14.4    | 14.4    | 14.4    | 10.8    | 7.2     | 3.6     | 0.0     | 0.0     |
| 85°   | 14.4    | 14.4    | 14.4    | 14.4    | 14.4    | 14.4    | 10.8    | 7.2     | 3.6     | 0.0     | 0.0     |
| 87.5° | 14.4    | 14.4    | 14.4    | 14.4    | 14.4    | 14.4    | 10.8    | 7.2     | 3.6     | 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)