

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: P641716

Luminaire Tested: GWS-SA6B-740-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-740-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

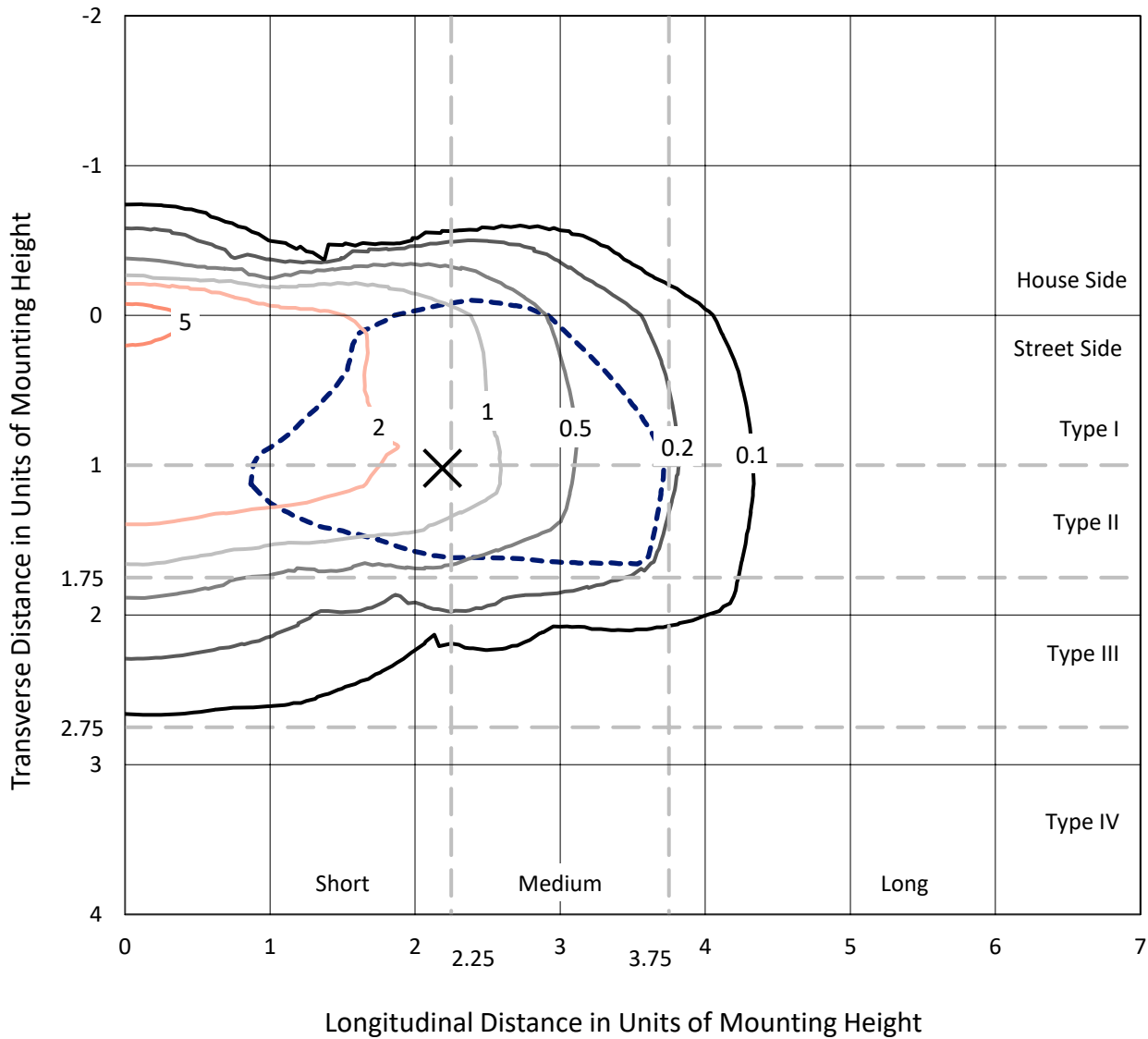
Lumens per Lamp: N/A  
Luminaire Lumens: 16783.8 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

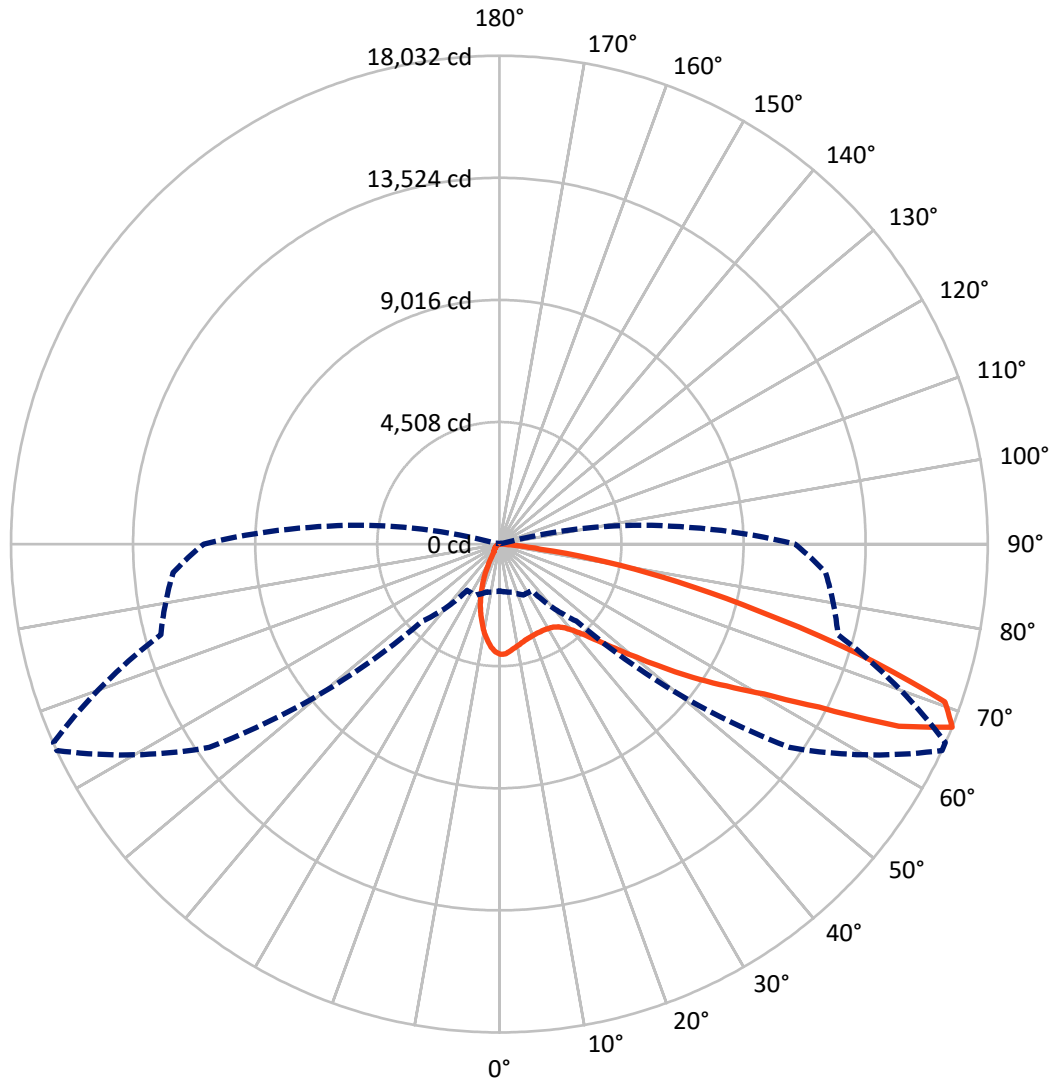
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA6B-740-U-SL2-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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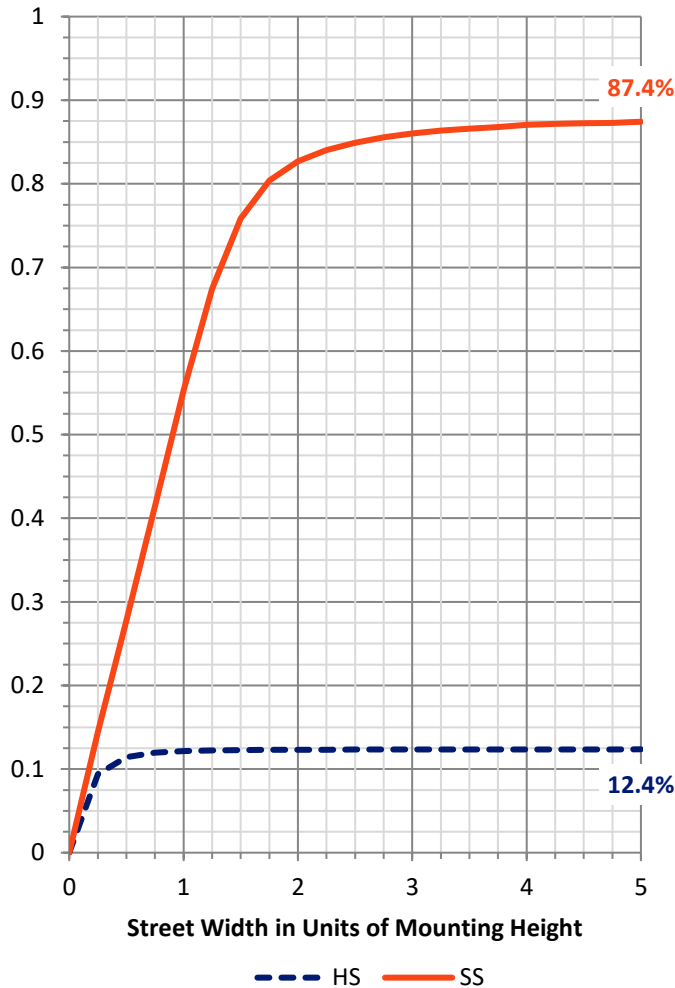
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2095.8   | 0.0    | 2095.8  |
|                    | % Fixture | 12.5     | 0.0    | 12.5    |
| <b>Street Side</b> | Lumens    | 14688.0  | 0.0    | 14688.0 |
|                    | % Fixture | 87.5     | 0.0    | 87.5    |
| <b>Total</b>       | Lumens    | 16783.8  | 0.0    | 16783.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 338.1   | 2.0       |
| 10°-20°   | 760.0   | 4.5       |
| 20°-30°   | 1086.0  | 6.5       |
| 30°-40°   | 1580.0  | 9.4       |
| 40°-50°   | 2474.5  | 14.7      |
| 50°-60°   | 3860.3  | 23.0      |
| 60°-70°   | 4240.3  | 25.3      |
| 70°-80°   | 2256.7  | 13.4      |
| 80°-90°   | 187.9   | 1.1       |
| 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°    | 16783.8 | 100.0     |
| 0°-180°   | 16783.8 | 100.0     |

**Coefficient of Utilization**

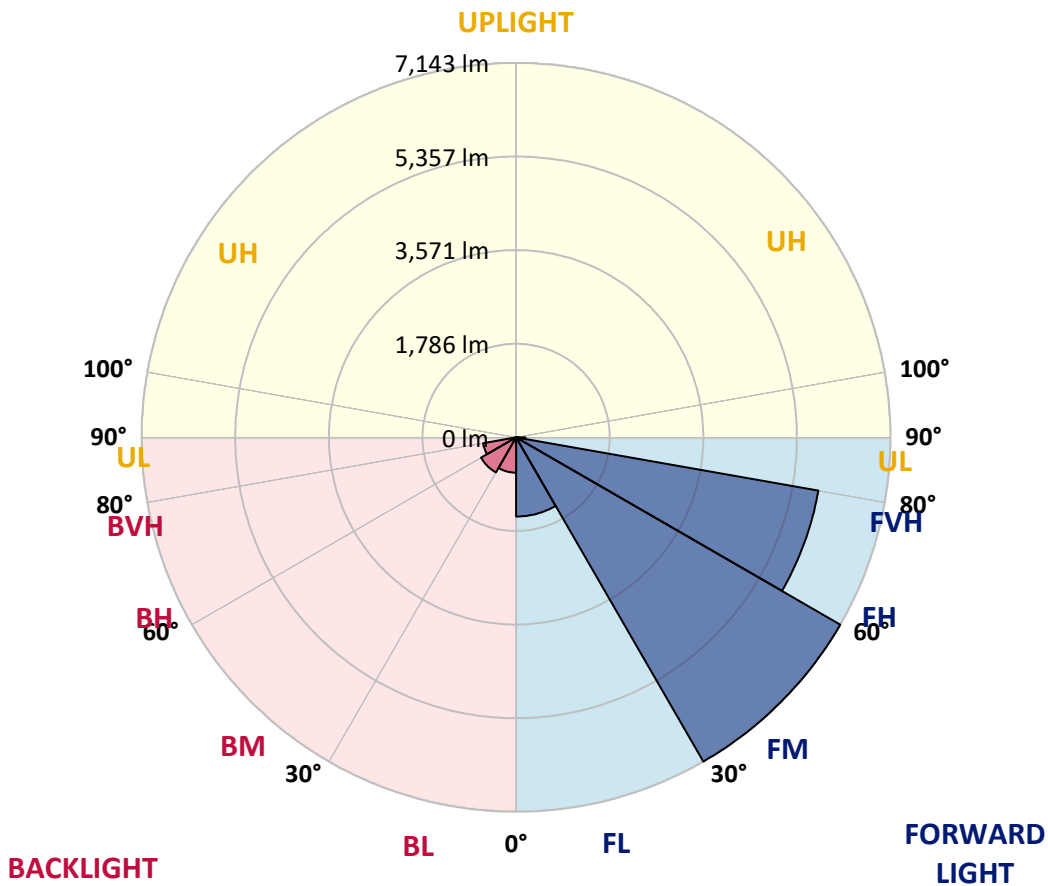


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1510.4 | 9.0       |                         |      |         |
| FM (30°-60°)   | 7142.8 | 42.6      |                         |      |         |
| FH (60°-80°)   | 5856.9 | 34.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 177.8  | 1.1       |                         |      | G2/225  |
| BL (0°-30°)    | 673.6  | 4.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 772.0  | 4.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 640.1  | 3.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 10.0   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6  | 4070.6  | 4070.6  | 4070.6  | 4070.6  | 4070.6  |
| 2.5°  | 3929.4 | 3941.6 | 3924.9 | 3965.9 | 3973.5 | 4019.0  | 4044.8  | 4063.0  | 4061.5  | 4084.3  | 4084.3  |
| 5°    | 3698.8 | 3710.9 | 3701.8 | 3745.8 | 3780.7 | 3852.0  | 3911.2  | 3979.5  | 3982.6  | 4052.4  | 4078.2  |
| 7.5°  | 3503.0 | 3504.5 | 3504.5 | 3559.1 | 3604.7 | 3692.7  | 3780.7  | 3885.4  | 3897.6  | 4005.3  | 4073.6  |
| 10°   | 3342.1 | 3346.6 | 3348.2 | 3410.4 | 3460.5 | 3566.7  | 3679.0  | 3805.0  | 3818.7  | 3964.4  | 4070.6  |
| 12.5° | 3231.3 | 3232.8 | 3238.9 | 3304.1 | 3358.8 | 3469.6  | 3583.4  | 3727.6  | 3745.8  | 3917.3  | 4056.9  |
| 15°   | 3178.2 | 3175.1 | 3178.2 | 3232.8 | 3287.4 | 3393.7  | 3510.6  | 3665.4  | 3685.1  | 3877.8  | 4058.5  |
| 17.5° | 3175.1 | 3170.6 | 3167.5 | 3208.5 | 3243.4 | 3337.5  | 3455.9  | 3624.4  | 3645.6  | 3859.6  | 4075.2  |
| 20°   | 3219.1 | 3216.1 | 3200.9 | 3219.1 | 3226.7 | 3304.1  | 3421.0  | 3592.5  | 3613.8  | 3856.6  | 4111.6  |
| 22.5° | 3334.5 | 3326.9 | 3304.1 | 3287.4 | 3246.5 | 3292.0  | 3396.7  | 3569.7  | 3594.0  | 3864.2  | 4158.6  |
| 25°   | 3506.0 | 3503.0 | 3474.1 | 3433.1 | 3328.4 | 3310.2  | 3398.2  | 3569.7  | 3592.5  | 3873.3  | 4208.7  |
| 27.5° | 3764.0 | 3745.8 | 3709.4 | 3638.0 | 3487.8 | 3381.5  | 3428.6  | 3578.8  | 3601.6  | 3885.4  | 4249.7  |
| 30°   | 4026.6 | 4025.1 | 4012.9 | 3940.1 | 3717.0 | 3518.1  | 3492.3  | 3603.1  | 3624.4  | 3896.1  | 4287.6  |
| 32.5° | 4298.3 | 4302.8 | 4333.2 | 4277.0 | 4032.7 | 3721.5  | 3607.7  | 3653.2  | 3668.4  | 3917.3  | 4321.0  |
| 35°   | 4556.3 | 4565.4 | 4645.8 | 4665.6 | 4416.6 | 4029.6  | 3795.9  | 3753.4  | 3754.9  | 3964.4  | 4365.0  |
| 37.5° | 4803.7 | 4834.0 | 4963.0 | 5058.7 | 4894.7 | 4403.0  | 4067.6  | 3923.4  | 3911.2  | 4058.5  | 4431.8  |
| 40°   | 5084.5 | 5142.1 | 5304.5 | 5466.9 | 5415.3 | 4896.3  | 4437.9  | 4184.4  | 4158.6  | 4231.5  | 4551.7  |
| 42.5° | 5395.6 | 5457.8 | 5673.3 | 5901.0 | 5925.3 | 5492.7  | 4900.8  | 4565.4  | 4521.4  | 4522.9  | 4776.4  |
| 45°   | 5729.5 | 5813.0 | 6063.4 | 6391.2 | 6538.5 | 6157.5  | 5471.5  | 5079.9  | 5035.9  | 4970.6  | 5137.6  |
| 47.5° | 6168.1 | 6241.0 | 6482.3 | 6860.2 | 7142.5 | 6870.8  | 6219.7  | 5741.6  | 5661.2  | 5565.6  | 5699.1  |
| 50°   | 6546.0 | 6609.8 | 6817.7 | 7291.3 | 7878.6 | 7790.6  | 7068.2  | 6568.8  | 6491.4  | 6329.0  | 6439.8  |
| 52.5° | 6629.5 | 6679.6 | 6870.8 | 7403.6 | 8441.7 | 8951.7  | 8107.8  | 7569.0  | 7514.4  | 7213.9  | 7256.4  |
| 55°   | 6254.6 | 6330.5 | 6502.0 | 7094.0 | 8588.9 | 10087.0 | 9457.1  | 8696.7  | 8582.9  | 8103.3  | 8179.1  |
| 57.5° | 5307.6 | 5442.6 | 5603.5 | 6373.0 | 8189.8 | 10691.0 | 11342.1 | 9891.2  | 9788.0  | 8959.3  | 8960.8  |
| 60°   | 3890.0 | 3999.3 | 4107.0 | 4811.3 | 7242.7 | 10650.0 | 13052.6 | 11232.9 | 11044.7 | 9658.9  | 9633.1  |
| 62.5° | 2829.1 | 2885.2 | 2883.7 | 3134.1 | 4973.7 | 9948.8  | 13951.1 | 13254.5 | 12815.9 | 10407.2 | 10260.0 |
| 65°   | 2225.0 | 2223.5 | 2288.8 | 2370.7 | 2777.5 | 7679.8  | 14061.9 | 16206.5 | 15733.0 | 11410.4 | 11103.8 |
| 67.5° | 1731.8 | 1765.1 | 1830.4 | 2071.7 | 2086.9 | 4019.0  | 13087.5 | 18032.4 | 18023.3 | 12941.8 | 12091.9 |
| 70°   | 1335.6 | 1381.2 | 1473.7 | 1825.9 | 1927.5 | 2249.3  | 9792.5  | 17454.1 | 17601.3 | 13626.3 | 11392.2 |
| 72.5° | 857.5  | 854.5  | 991.1  | 1475.3 | 1851.7 | 1874.4  | 5415.3  | 13864.6 | 14031.6 | 12342.3 | 9211.2  |
| 75°   | 479.6  | 482.6  | 560.0  | 903.1  | 1725.7 | 1763.6  | 2681.9  | 9886.6  | 10018.7 | 9622.5  | 7077.3  |
| 77.5° | 188.2  | 194.3  | 262.6  | 475.1  | 1138.3 | 1575.4  | 1593.6  | 6741.8  | 6761.6  | 5963.2  | 4340.8  |
| 80°   | 75.9   | 80.4   | 133.6  | 294.4  | 693.6  | 1060.9  | 1138.3  | 3971.9  | 3891.5  | 2308.5  | 1262.8  |
| 82.5° | 22.8   | 24.3   | 53.1   | 167.0  | 362.7  | 754.3   | 768.0   | 1523.8  | 1438.8  | 496.3   | 321.8   |
| 85°   | 1.5    | 1.5    | 12.1   | 51.6   | 129.0  | 189.7   | 511.5   | 496.3   | 440.1   | 124.5   | 142.7   |
| 87.5° | 0.0    | 0.0    | 1.5    | 1.5    | 3.0    | 6.1     | 54.6    | 91.1    | 92.6    | 22.8    | 63.7    |
| 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°    | 4070.6  | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6 | 4070.6 |
| 2.5°  | 4084.3  | 4029.6 | 4025.1 | 3982.6 | 3940.1 | 3887.0 | 3824.7 | 3779.2 | 3747.3 | 3691.2 | 3680.5 |
| 5°    | 4078.2  | 4005.3 | 3937.0 | 3815.6 | 3680.5 | 3534.8 | 3407.3 | 3289.0 | 3214.6 | 3164.5 | 3143.3 |
| 7.5°  | 4066.0  | 3973.5 | 3815.6 | 3586.4 | 3360.3 | 3105.3 | 2906.5 | 2724.4 | 2599.9 | 2527.1 | 2495.2 |
| 10°   | 4056.9  | 3932.5 | 3676.0 | 3328.4 | 2977.8 | 2625.7 | 2323.7 | 2053.5 | 1903.3 | 1784.9 | 1765.1 |
| 12.5° | 4038.7  | 3873.3 | 3496.9 | 3026.4 | 2574.1 | 2106.6 | 1721.1 | 1390.3 | 1161.1 | 1057.9 | 1021.4 |
| 15°   | 4020.5  | 3811.1 | 3317.8 | 2707.7 | 2134.0 | 1557.2 | 1089.7 | 771.0  | 613.2  | 564.6  | 561.6  |
| 17.5° | 4017.5  | 3754.9 | 3123.5 | 2405.6 | 1672.6 | 1019.9 | 620.8  | 499.3  | 465.9  | 453.8  | 453.8  |
| 20°   | 4026.6  | 3707.9 | 2932.3 | 2058.1 | 1218.8 | 620.8  | 462.9  | 432.6  | 412.8  | 402.2  | 402.2  |
| 22.5° | 4035.7  | 3659.3 | 2748.6 | 1707.5 | 809.0  | 453.8  | 408.3  | 382.5  | 359.7  | 347.6  | 341.5  |
| 25°   | 4041.8  | 3606.2 | 2545.3 | 1355.3 | 528.2  | 394.6  | 358.2  | 324.8  | 297.5  | 282.3  | 282.3  |
| 27.5° | 4040.2  | 3542.4 | 2340.4 | 1010.8 | 409.8  | 350.6  | 306.6  | 271.7  | 244.4  | 227.7  | 229.2  |
| 30°   | 4028.1  | 3472.6 | 2127.9 | 705.8  | 358.2  | 306.6  | 262.6  | 226.1  | 198.8  | 185.2  | 183.6  |
| 32.5° | 4019.0  | 3398.2 | 1882.0 | 496.3  | 321.8  | 268.6  | 223.1  | 188.2  | 165.4  | 154.8  | 153.3  |
| 35°   | 4008.4  | 3325.4 | 1648.3 | 377.9  | 289.9  | 232.2  | 188.2  | 159.4  | 141.2  | 132.0  | 132.0  |
| 37.5° | 4011.4  | 3249.5 | 1394.8 | 324.8  | 258.0  | 201.9  | 160.9  | 136.6  | 121.4  | 112.3  | 110.8  |
| 40°   | 4058.5  | 3204.0 | 1145.9 | 294.4  | 229.2  | 174.5  | 139.6  | 118.4  | 103.2  | 94.1   | 92.6   |
| 42.5° | 4175.3  | 3205.5 | 907.6  | 271.7  | 203.4  | 148.7  | 121.4  | 101.7  | 88.0   | 77.4   | 75.9   |
| 45°   | 4409.1  | 3269.2 | 696.6  | 247.4  | 176.1  | 129.0  | 104.7  | 86.5   | 72.9   | 63.7   | 62.2   |
| 47.5° | 4791.5  | 3458.9 | 528.2  | 226.1  | 153.3  | 112.3  | 89.5   | 72.9   | 60.7   | 53.1   | 51.6   |
| 50°   | 5400.1  | 3802.0 | 415.9  | 200.3  | 129.0  | 97.1   | 75.9   | 60.7   | 50.1   | 42.5   | 41.0   |
| 52.5° | 6131.7  | 4316.5 | 356.7  | 177.6  | 110.8  | 85.0   | 65.3   | 50.1   | 41.0   | 34.9   | 33.4   |
| 55°   | 6972.5  | 4931.2 | 329.4  | 154.8  | 94.1   | 72.9   | 53.1   | 41.0   | 33.4   | 28.8   | 25.8   |
| 57.5° | 7743.6  | 5485.1 | 327.8  | 132.0  | 80.4   | 62.2   | 44.0   | 34.9   | 28.8   | 22.8   | 21.2   |
| 60°   | 8494.8  | 5948.1 | 308.1  | 109.3  | 69.8   | 51.6   | 37.9   | 28.8   | 24.3   | 19.7   | 18.2   |
| 62.5° | 9176.3  | 6324.5 | 258.0  | 88.0   | 59.2   | 42.5   | 31.9   | 25.8   | 21.2   | 16.7   | 16.7   |
| 65°   | 10032.3 | 6804.1 | 197.3  | 71.3   | 48.6   | 34.9   | 27.3   | 22.8   | 19.7   | 15.2   | 15.2   |
| 67.5° | 10917.2 | 7057.5 | 141.2  | 59.2   | 39.5   | 30.4   | 24.3   | 21.2   | 16.7   | 13.7   | 13.7   |
| 70°   | 9888.1  | 5963.2 | 101.7  | 48.6   | 33.4   | 25.8   | 21.2   | 19.7   | 16.7   | 13.7   | 12.1   |
| 72.5° | 7722.3  | 4299.8 | 75.9   | 37.9   | 28.8   | 24.3   | 19.7   | 18.2   | 15.2   | 12.1   | 12.1   |
| 75°   | 5726.5  | 2507.3 | 57.7   | 30.4   | 22.8   | 19.7   | 19.7   | 18.2   | 15.2   | 12.1   | 10.6   |
| 77.5° | 3112.9  | 874.2  | 44.0   | 24.3   | 18.2   | 15.2   | 16.7   | 16.7   | 13.7   | 10.6   | 9.1    |
| 80°   | 824.1   | 239.8  | 30.4   | 18.2   | 15.2   | 12.1   | 12.1   | 15.2   | 12.1   | 9.1    | 9.1    |
| 82.5° | 239.8   | 69.8   | 21.2   | 15.2   | 12.1   | 10.6   | 10.6   | 10.6   | 9.1    | 7.6    | 6.1    |
| 85°   | 116.9   | 25.8   | 15.2   | 12.1   | 10.6   | 9.1    | 7.6    | 7.6    | 6.1    | 4.6    | 4.6    |
| 87.5° | 51.6    | 10.6   | 12.1   | 10.6   | 10.6   | 7.6    | 6.1    | 4.6    | 4.6    | 3.0    | 1.5    |
| 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)