

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: P641997

Luminaire Tested: GWS-SA6C-722-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-722-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

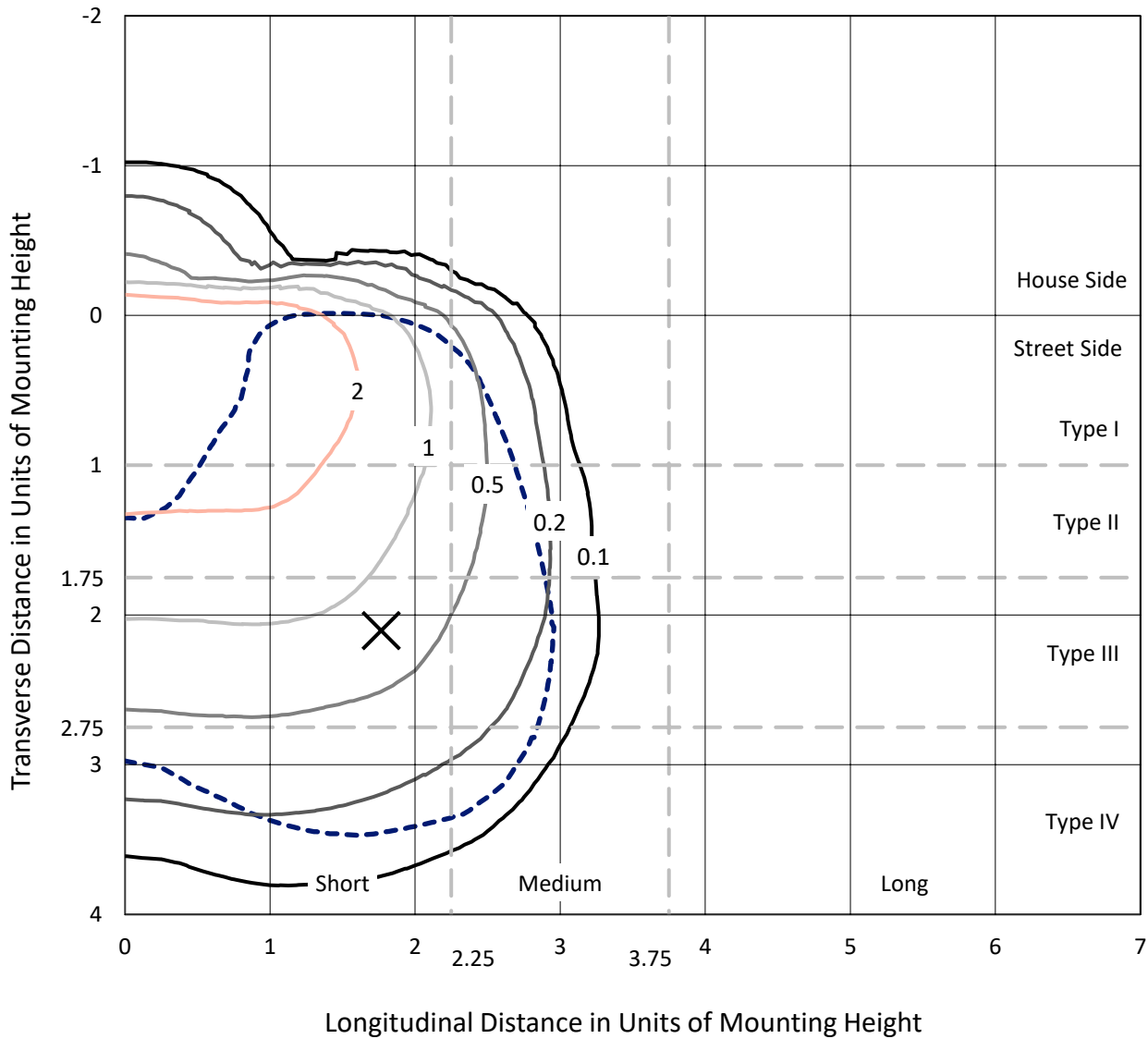
Lumens per Lamp: N/A  
Luminaire Lumens: 16479.5 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P641997  
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### Iso-Footcandle Lines of Horizontal Illumination

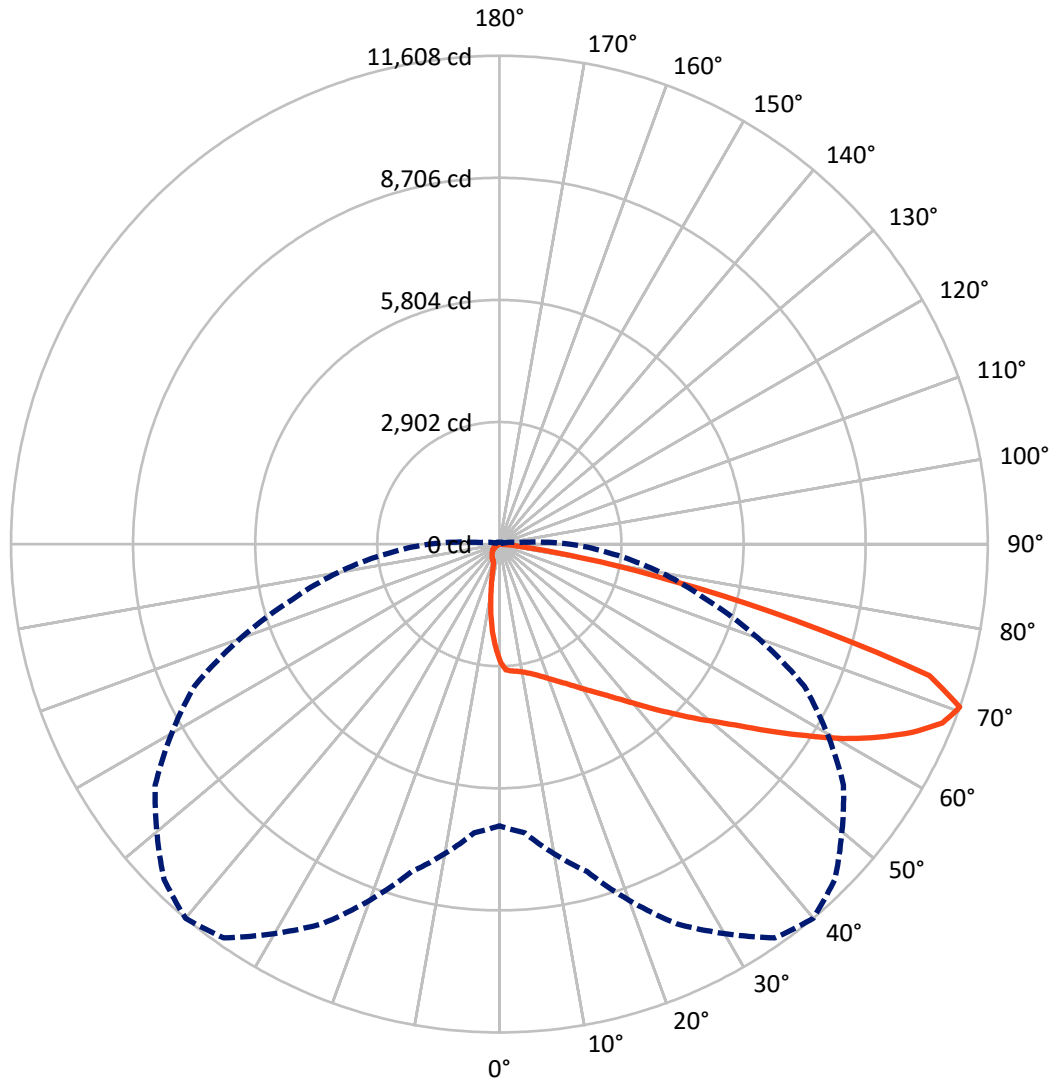
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P641997  
CATALOG NUMBER: GWS-SA6C-722-U-SL4-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GWS-SA6C-722-U-SL4-W-HSS

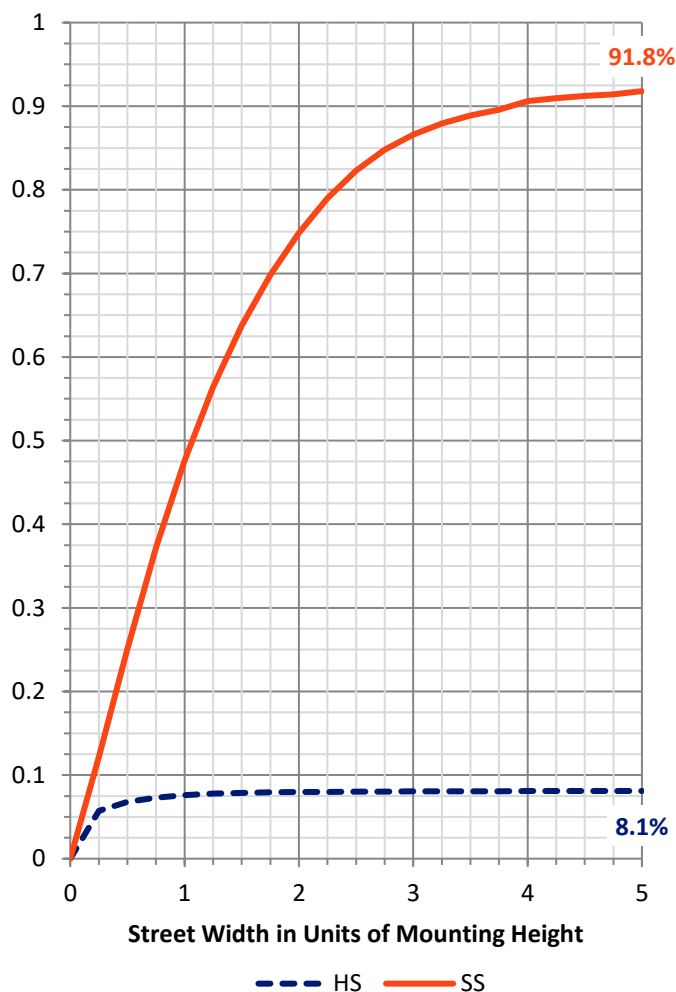
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1347.6   | 0.0    | 1347.6  |
|                    | % Fixture | 8.2      | 0.0    | 8.2     |
| <b>Street Side</b> | Lumens    | 15131.9  | 0.0    | 15131.9 |
|                    | % Fixture | 91.8     | 0.0    | 91.8    |
| <b>Total</b>       | Lumens    | 16479.5  | 0.0    | 16479.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 236.4   | 1.4       |
| 10°-20°   | 599.4   | 3.6       |
| 20°-30°   | 1003.3  | 6.1       |
| 30°-40°   | 1575.8  | 9.6       |
| 40°-50°   | 2492.5  | 15.1      |
| 50°-60°   | 3635.8  | 22.1      |
| 60°-70°   | 4507.2  | 27.4      |
| 70°-80°   | 2280.4  | 13.8      |
| 80°-90°   | 148.9   | 0.9       |
| 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°    | 16479.5 | 100.0     |
| 0°-180°   | 16479.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P641997

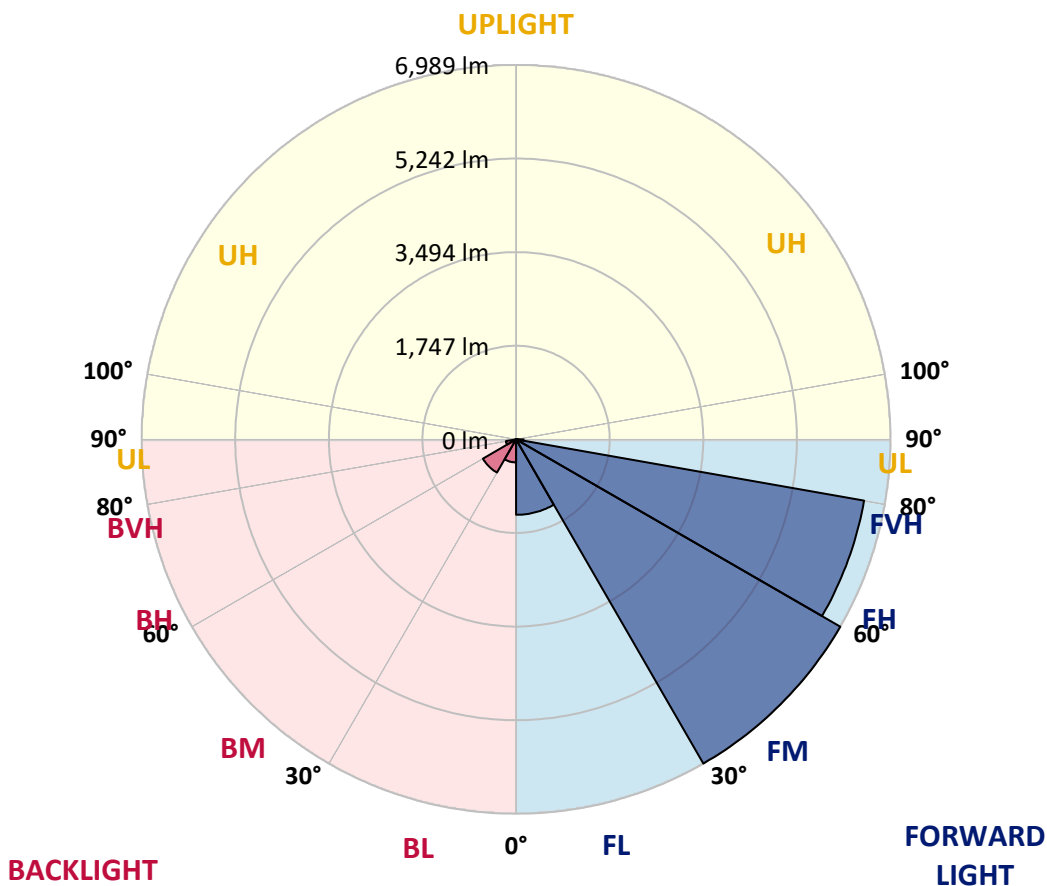
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1408.7 | 8.5       |                         |      |         |
| FM (30°-60°)   | 6988.8 | 42.4      |                         |      |         |
| FH (60°-80°)   | 6595.4 | 40.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 139.0  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 430.3  | 2.6       | B1/500                  |      |         |
| BM (30°-60°)   | 715.3  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 192.2  | 1.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 9.8    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P641997

CATALOG NUMBER: GWS-SA6C-722-U-SL4-W-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 40°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4  | 2796.4  | 2796.4  | 2796.4  | 2796.4  | 2796.4 | 2796.4 |
| 2.5°  | 3006.3 | 3016.8 | 3015.3 | 3019.8 | 3009.3  | 2992.8  | 2989.8  | 2967.3  | 2926.8  | 2875.8 | 2818.9 |
| 5°    | 3067.8 | 3079.8 | 3070.8 | 3066.3 | 3046.8  | 3028.8  | 3024.3  | 3000.3  | 2953.8  | 2884.8 | 2785.9 |
| 7.5°  | 3120.2 | 3123.2 | 3117.2 | 3106.7 | 3078.3  | 3054.3  | 3037.8  | 3004.8  | 2949.3  | 2880.3 | 2766.4 |
| 10°   | 3129.2 | 3127.7 | 3130.7 | 3132.2 | 3114.2  | 3093.3  | 3079.8  | 3034.8  | 2964.3  | 2890.8 | 2767.9 |
| 12.5° | 3118.7 | 3118.7 | 3138.2 | 3160.7 | 3160.7  | 3150.2  | 3136.7  | 3096.3  | 3013.8  | 2926.8 | 2797.9 |
| 15°   | 3132.2 | 3136.7 | 3174.2 | 3216.2 | 3229.7  | 3219.2  | 3213.2  | 3171.2  | 3085.8  | 2989.8 | 2851.9 |
| 17.5° | 3180.2 | 3184.7 | 3244.7 | 3307.7 | 3324.2  | 3312.2  | 3300.2  | 3258.2  | 3166.7  | 3061.8 | 2913.3 |
| 20°   | 3250.7 | 3262.7 | 3339.2 | 3420.1 | 3435.1  | 3420.1  | 3396.1  | 3337.7  | 3246.2  | 3139.7 | 2971.8 |
| 22.5° | 3379.6 | 3387.1 | 3469.6 | 3555.1 | 3562.6  | 3538.6  | 3502.6  | 3421.6  | 3325.7  | 3222.2 | 3037.8 |
| 25°   | 3550.6 | 3561.1 | 3643.5 | 3726.0 | 3706.5  | 3670.5  | 3621.0  | 3529.6  | 3420.1  | 3319.7 | 3121.7 |
| 27.5° | 3754.5 | 3766.5 | 3847.5 | 3919.4 | 3868.4  | 3826.5  | 3771.0  | 3657.0  | 3546.1  | 3454.6 | 3229.7 |
| 30°   | 3974.9 | 3985.4 | 4057.4 | 4121.8 | 4054.4  | 4004.9  | 3938.9  | 3822.0  | 3709.5  | 3640.5 | 3382.6 |
| 32.5° | 4187.8 | 4186.3 | 4255.3 | 4307.8 | 4238.8  | 4199.8  | 4139.8  | 4021.4  | 3931.4  | 3901.4 | 3610.5 |
| 35°   | 4385.7 | 4385.7 | 4442.7 | 4495.2 | 4445.7  | 4424.7  | 4369.2  | 4274.8  | 4223.8  | 4259.8 | 3914.9 |
| 37.5° | 4585.2 | 4574.7 | 4628.6 | 4687.1 | 4682.6  | 4684.1  | 4652.6  | 4607.6  | 4610.6  | 4738.1 | 4333.3 |
| 40°   | 4750.1 | 4745.6 | 4808.6 | 4885.0 | 4945.0  | 4993.0  | 4973.5  | 4990.0  | 5084.5  | 5322.9 | 4868.5 |
| 42.5° | 4882.0 | 4892.5 | 4973.5 | 5094.9 | 5246.4  | 5343.8  | 5357.3  | 5424.8  | 5667.7  | 6036.6 | 5472.8 |
| 45°   | 5033.5 | 5035.0 | 5147.4 | 5333.4 | 5574.8  | 5729.2  | 5783.2  | 5957.1  | 6302.0  | 6777.3 | 6135.5 |
| 47.5° | 5219.4 | 5201.4 | 5327.4 | 5588.2 | 5937.6  | 6165.5  | 6261.5  | 6478.9  | 7012.7  | 7500.0 | 6675.3 |
| 50°   | 5424.8 | 5391.8 | 5534.3 | 5889.6 | 6343.9  | 6628.8  | 6823.8  | 7141.6  | 7717.4  | 8093.7 | 7077.1 |
| 52.5° | 5663.2 | 5631.7 | 5793.7 | 6236.0 | 6831.2  | 7177.6  | 7428.0  | 7748.9  | 8321.6  | 8546.6 | 7317.1 |
| 55°   | 5966.1 | 5934.6 | 6105.5 | 6651.3 | 7407.0  | 7856.8  | 8119.2  | 8389.1  | 8883.9  | 8880.9 | 7491.0 |
| 57.5° | 6302.0 | 6258.5 | 6495.4 | 7176.1 | 8125.2  | 8593.0  | 8859.9  | 8991.9  | 9311.2  | 9140.3 | 7607.9 |
| 60°   | 6687.3 | 6648.3 | 6976.7 | 7801.4 | 8954.4  | 9387.7  | 9555.7  | 9501.7  | 9662.1  | 9293.3 | 7567.5 |
| 62.5° | 7035.2 | 7017.2 | 7425.0 | 8464.1 | 9744.6  | 10110.4 | 10156.9 | 9921.5  | 9920.0  | 9296.3 | 7294.6 |
| 65°   | 7396.5 | 7431.0 | 8036.8 | 9227.3 | 10539.3 | 10785.2 | 10705.7 | 10338.3 | 10023.5 | 8928.9 | 6487.9 |
| 67.5° | 7531.5 | 7631.9 | 8440.1 | 9917.0 | 11166.0 | 11357.9 | 11218.5 | 10546.8 | 9593.1  | 7693.4 | 4940.5 |
| 70°   | 6697.8 | 6886.7 | 8059.3 | 9956.0 | 11425.4 | 11608.3 | 11274.0 | 9986.0  | 7997.8  | 5096.4 | 2706.4 |
| 72.5° | 5093.4 | 5313.9 | 6715.8 | 8152.2 | 10275.4 | 10692.2 | 10120.9 | 8135.7  | 5154.9  | 2232.6 | 908.6  |
| 75°   | 2850.4 | 3088.8 | 5002.0 | 6138.5 | 6898.7  | 7279.6  | 7069.7  | 5219.4  | 2283.6  | 583.3  | 271.4  |
| 77.5° | 964.1  | 1043.6 | 2327.1 | 3798.0 | 4553.7  | 4211.8  | 3565.6  | 2592.5  | 839.7   | 221.9  | 143.9  |
| 80°   | 571.3  | 601.3  | 866.7  | 1890.7 | 2396.0  | 1986.7  | 1568.4  | 958.1   | 427.3   | 118.5  | 100.5  |
| 82.5° | 170.9  | 202.4  | 478.3  | 701.7  | 938.6   | 584.8   | 494.8   | 547.3   | 221.9   | 64.5   | 84.0   |
| 85°   | 0.0    | 0.0    | 102.0  | 217.4  | 245.9   | 96.0    | 96.0    | 310.4   | 40.5    | 27.0   | 61.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 1.5     | 7.5     | 4.5     | 6.0    | 13.5   |
| 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°    | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4 | 2796.4 |
| 2.5°  | 2778.4 | 2725.9 | 2664.4 | 2606.0 | 2550.5 | 2478.5 | 2444.0 | 2402.0 | 2366.0 | 2346.6 | 2357.1 |
| 5°    | 2722.9 | 2640.4 | 2514.5 | 2387.0 | 2258.1 | 2136.6 | 2027.2 | 1953.7 | 1887.7 | 1853.3 | 1860.8 |
| 7.5°  | 2674.9 | 2564.0 | 2367.5 | 2159.1 | 1952.2 | 1743.8 | 1574.4 | 1442.4 | 1340.5 | 1298.5 | 1291.0 |
| 10°   | 2653.9 | 2514.5 | 2237.1 | 1937.2 | 1619.3 | 1339.0 | 1099.1 | 953.6  | 850.2  | 799.2  | 808.2  |
| 12.5° | 2664.4 | 2489.0 | 2126.1 | 1719.8 | 1307.5 | 980.6  | 751.2  | 614.8  | 541.3  | 511.3  | 503.8  |
| 15°   | 2694.4 | 2483.0 | 2027.2 | 1497.9 | 1009.1 | 685.2  | 518.8  | 463.3  | 448.3  | 445.3  | 445.3  |
| 17.5° | 2728.9 | 2484.5 | 1925.2 | 1273.0 | 766.2  | 508.3  | 443.8  | 433.3  | 428.8  | 425.8  | 427.3  |
| 20°   | 2763.4 | 2484.5 | 1808.3 | 1045.1 | 575.8  | 439.3  | 422.8  | 415.3  | 410.8  | 409.3  | 409.3  |
| 22.5° | 2805.4 | 2484.5 | 1677.8 | 833.7  | 461.8  | 416.8  | 403.3  | 398.8  | 394.3  | 392.8  | 391.3  |
| 25°   | 2856.3 | 2486.0 | 1533.9 | 652.2  | 419.8  | 397.3  | 386.8  | 382.3  | 377.8  | 374.8  | 374.8  |
| 27.5° | 2929.8 | 2498.0 | 1374.9 | 508.3  | 395.8  | 379.3  | 370.4  | 365.9  | 361.4  | 356.9  | 356.9  |
| 30°   | 3036.3 | 2528.0 | 1196.5 | 419.8  | 373.3  | 359.9  | 350.9  | 347.9  | 343.4  | 338.9  | 337.4  |
| 32.5° | 3195.2 | 2580.5 | 1012.1 | 376.3  | 352.4  | 338.9  | 328.4  | 325.4  | 320.9  | 316.4  | 314.9  |
| 35°   | 3417.1 | 2676.4 | 832.2  | 349.4  | 325.4  | 311.9  | 305.9  | 304.4  | 298.4  | 293.9  | 293.9  |
| 37.5° | 3742.5 | 2832.4 | 659.7  | 322.4  | 302.9  | 292.4  | 284.9  | 281.9  | 275.9  | 271.4  | 269.9  |
| 40°   | 4139.8 | 3034.8 | 512.8  | 301.4  | 281.9  | 271.4  | 263.9  | 259.4  | 251.9  | 245.9  | 242.9  |
| 42.5° | 4646.6 | 3282.2 | 404.8  | 278.9  | 262.4  | 251.9  | 245.9  | 236.9  | 226.4  | 217.4  | 215.9  |
| 45°   | 5174.4 | 3537.1 | 334.4  | 257.9  | 244.4  | 235.4  | 227.9  | 215.9  | 200.9  | 190.4  | 187.4  |
| 47.5° | 5579.3 | 3696.0 | 292.4  | 235.4  | 224.9  | 217.4  | 208.4  | 193.4  | 175.4  | 163.4  | 160.4  |
| 50°   | 5868.6 | 3720.0 | 260.9  | 214.4  | 208.4  | 200.9  | 187.4  | 169.4  | 149.9  | 137.9  | 134.9  |
| 52.5° | 6011.1 | 3612.0 | 235.4  | 194.9  | 190.4  | 182.9  | 166.4  | 146.9  | 125.9  | 114.0  | 111.0  |
| 55°   | 6075.6 | 3408.1 | 211.4  | 178.4  | 172.4  | 163.4  | 145.4  | 124.4  | 103.5  | 93.0   | 90.0   |
| 57.5° | 6050.1 | 3106.7 | 190.4  | 161.9  | 154.4  | 143.9  | 124.4  | 102.0  | 85.5   | 75.0   | 73.5   |
| 60°   | 5861.1 | 2683.9 | 169.4  | 145.4  | 136.4  | 124.4  | 105.0  | 84.0   | 69.0   | 61.5   | 60.0   |
| 62.5° | 5453.3 | 2159.1 | 148.4  | 125.9  | 120.0  | 108.0  | 90.0   | 69.0   | 57.0   | 52.5   | 51.0   |
| 65°   | 4618.1 | 1526.4 | 127.4  | 106.5  | 103.5  | 91.5   | 75.0   | 57.0   | 49.5   | 46.5   | 45.0   |
| 67.5° | 3319.7 | 928.1  | 108.0  | 91.5   | 88.5   | 78.0   | 63.0   | 49.5   | 45.0   | 43.5   | 43.5   |
| 70°   | 1668.8 | 439.3  | 85.5   | 75.0   | 75.0   | 64.5   | 54.0   | 45.0   | 43.5   | 42.0   | 42.0   |
| 72.5° | 566.8  | 187.4  | 64.5   | 58.5   | 61.5   | 55.5   | 46.5   | 42.0   | 42.0   | 42.0   | 42.0   |
| 75°   | 193.4  | 99.0   | 45.0   | 42.0   | 45.0   | 45.0   | 40.5   | 40.5   | 42.0   | 42.0   | 42.0   |
| 77.5° | 125.9  | 66.0   | 31.5   | 28.5   | 34.5   | 34.5   | 34.5   | 37.5   | 40.5   | 40.5   | 40.5   |
| 80°   | 103.5  | 36.0   | 21.0   | 19.5   | 25.5   | 25.5   | 28.5   | 34.5   | 37.5   | 37.5   | 37.5   |
| 82.5° | 88.5   | 22.5   | 12.0   | 13.5   | 18.0   | 19.5   | 24.0   | 28.5   | 33.0   | 34.5   | 34.5   |
| 85°   | 60.0   | 12.0   | 9.0    | 10.5   | 12.0   | 15.0   | 19.5   | 24.0   | 27.0   | 30.0   | 30.0   |
| 87.5° | 16.5   | 4.5    | 6.0    | 7.5    | 7.5    | 10.5   | 15.0   | 18.0   | 21.0   | 22.5   | 22.5   |
| 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)