

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: P642261

Luminaire Tested: GWS-SA6C-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-750-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

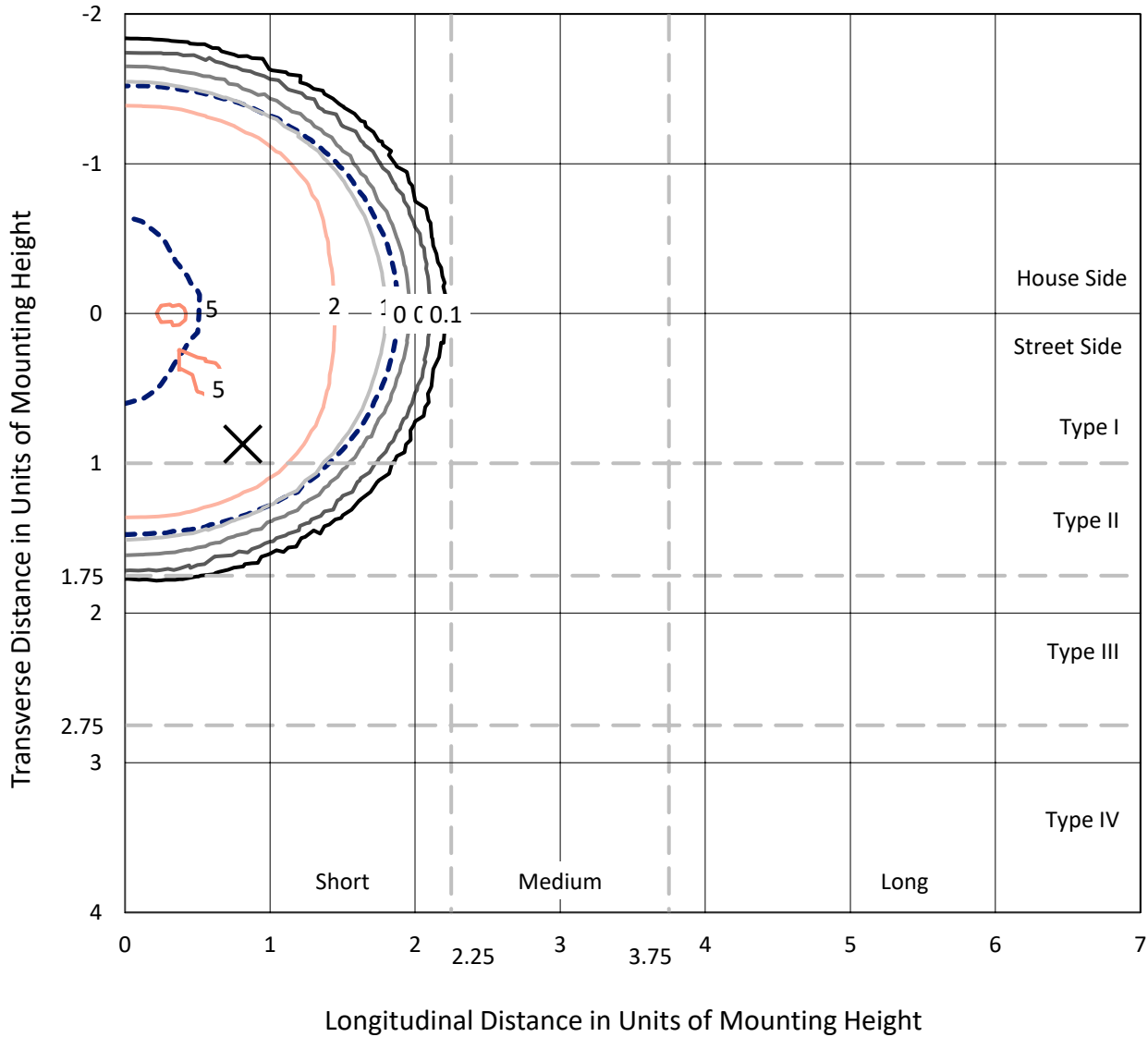
Lumens per Lamp: N/A  
Luminaire Lumens: 18825 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

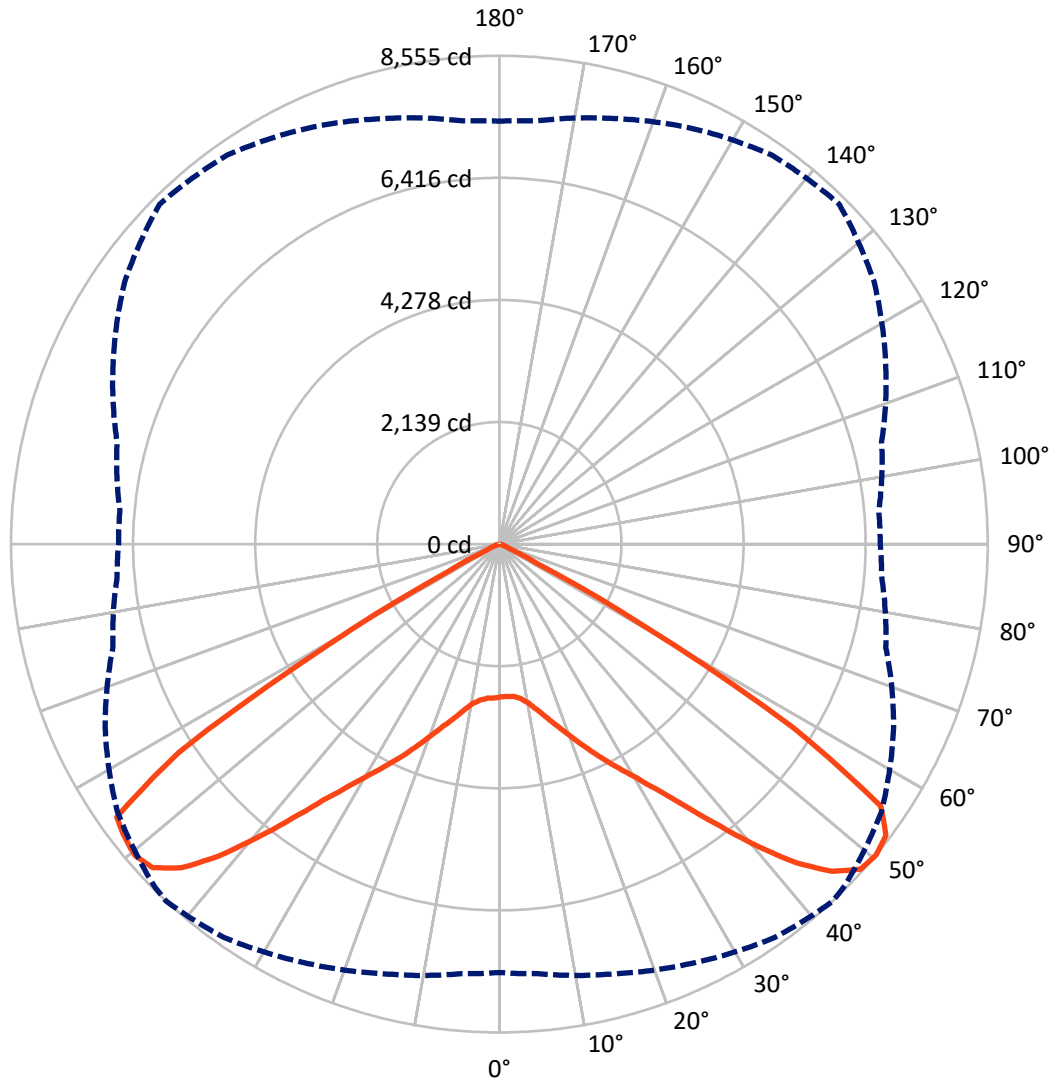
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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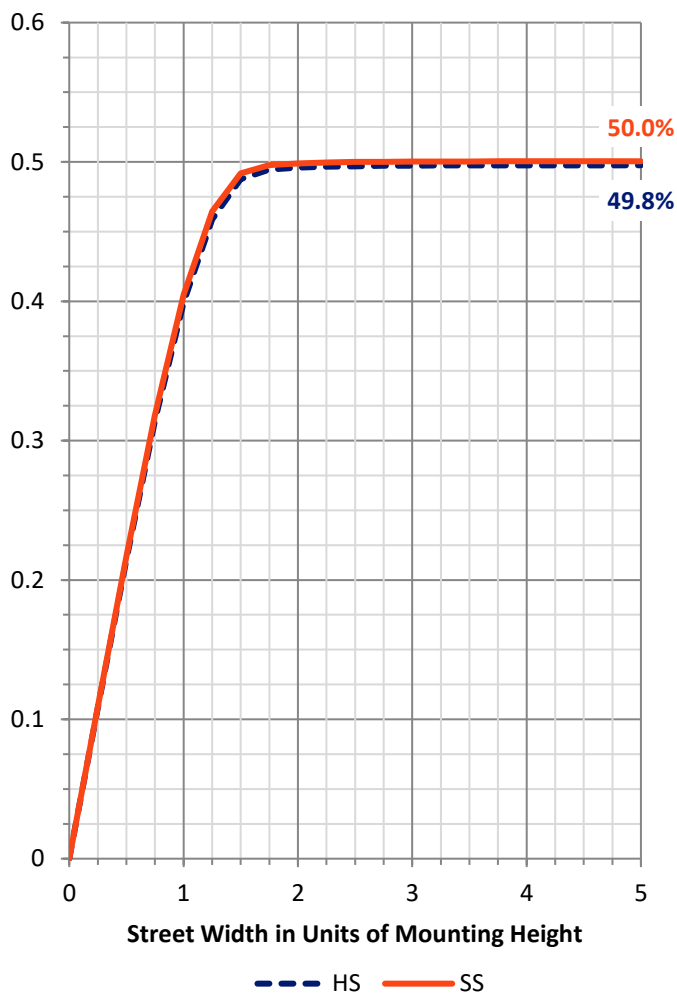
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9412.3   | 0.0    | 9412.3  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9412.7   | 0.0    | 9412.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18825.0  | 0.0    | 18825.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 263.7   | 1.4       |
| 10°-20°   | 907.4   | 4.8       |
| 20°-30°   | 1835.8  | 9.8       |
| 30°-40°   | 3406.1  | 18.1      |
| 40°-50°   | 5653.9  | 30.0      |
| 50°-60°   | 5770.0  | 30.7      |
| 60°-70°   | 946.2   | 5.0       |
| 70°-80°   | 41.4    | 0.2       |
| 80°-90°   | 0.6     | 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°    | 18825.0 | 100.0     |
| 0°-180°   | 18825.0 | 100.0     |

**Coefficient of Utilization**



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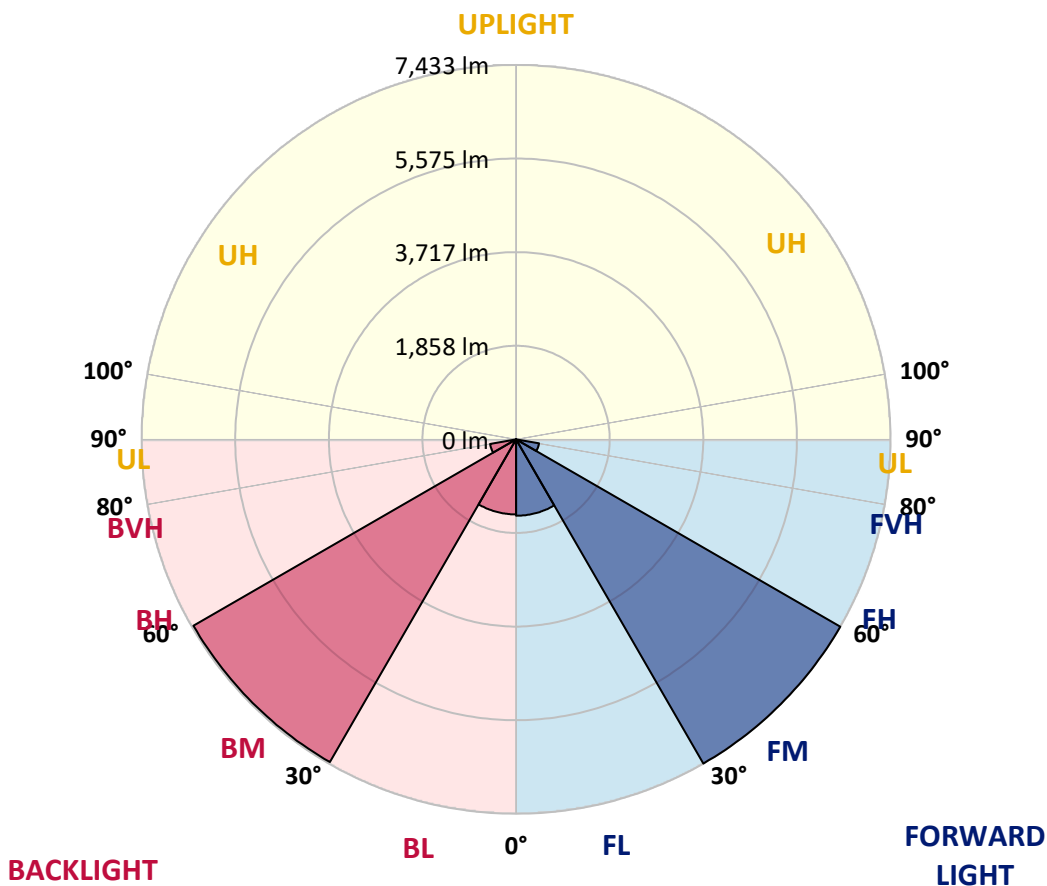
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1516.6 | 8.1       |                         |      |        |
| FM (30°-60°)   | 7433.0 | 39.5      |                         |      |        |
| FH (60°-80°)   | 462.9  | 2.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.2    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 1490.3 | 7.9       | B3/2500                 |      |        |
| BM (30°-60°)   | 7396.9 | 39.3      | B4/8500                 |      |        |
| BH (60°-80°)   | 524.7  | 2.8       | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 0.4    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 43°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 |
| 2.5°  | 2627.6 | 2633.8 | 2642.2 | 2650.5 | 2660.9 | 2671.3 | 2677.6 | 2696.3 | 2692.1 | 2708.8 | 2708.8 |
| 5°    | 2598.4 | 2604.7 | 2615.1 | 2633.8 | 2656.7 | 2679.6 | 2696.3 | 2733.8 | 2754.6 | 2787.9 | 2800.4 |
| 7.5°  | 2613.0 | 2621.3 | 2633.8 | 2663.0 | 2698.4 | 2733.8 | 2752.5 | 2812.9 | 2854.5 | 2917.0 | 2952.4 |
| 10°   | 2660.9 | 2669.2 | 2690.1 | 2740.0 | 2785.8 | 2835.8 | 2858.7 | 2935.7 | 3002.4 | 3087.7 | 3137.7 |
| 12.5° | 2715.0 | 2725.4 | 2767.1 | 2842.0 | 2921.2 | 2987.8 | 3019.0 | 3104.4 | 3173.1 | 3268.9 | 3348.0 |
| 15°   | 2771.3 | 2787.9 | 2852.5 | 2962.8 | 3075.2 | 3164.8 | 3198.1 | 3289.7 | 3358.4 | 3460.4 | 3550.0 |
| 17.5° | 2902.4 | 2921.2 | 2994.0 | 3112.7 | 3266.8 | 3370.9 | 3400.0 | 3495.8 | 3547.9 | 3616.6 | 3710.3 |
| 20°   | 3066.9 | 3102.3 | 3191.8 | 3335.5 | 3504.1 | 3604.1 | 3624.9 | 3718.6 | 3714.4 | 3743.6 | 3824.8 |
| 22.5° | 3271.0 | 3295.9 | 3393.8 | 3564.5 | 3754.0 | 3864.3 | 3912.2 | 3951.8 | 3899.7 | 3874.8 | 3926.8 |
| 25°   | 3483.3 | 3512.5 | 3618.7 | 3806.0 | 4018.4 | 4145.4 | 4185.0 | 4216.2 | 4132.9 | 4039.2 | 4045.5 |
| 27.5° | 3758.2 | 3779.0 | 3883.1 | 4083.0 | 4295.3 | 4439.0 | 4474.4 | 4528.5 | 4418.2 | 4268.3 | 4226.6 |
| 30°   | 4085.0 | 4105.9 | 4216.2 | 4426.5 | 4636.8 | 4759.6 | 4813.8 | 4880.4 | 4759.6 | 4572.3 | 4524.4 |
| 32.5° | 4468.1 | 4489.0 | 4630.6 | 4847.1 | 5019.9 | 5153.2 | 5205.2 | 5276.0 | 5180.2 | 4969.9 | 4915.8 |
| 35°   | 4926.2 | 4938.7 | 5105.3 | 5340.5 | 5523.8 | 5652.9 | 5688.3 | 5771.5 | 5665.3 | 5455.1 | 5425.9 |
| 37.5° | 5457.1 | 5471.7 | 5652.9 | 5925.6 | 6113.0 | 6256.7 | 6312.9 | 6335.8 | 6206.7 | 5971.4 | 5948.5 |
| 40°   | 6040.1 | 6088.0 | 6265.0 | 6558.6 | 6768.9 | 6950.0 | 7000.0 | 6922.9 | 6741.8 | 6421.1 | 6379.5 |
| 42.5° | 6648.1 | 6689.7 | 6887.5 | 7206.1 | 7449.7 | 7635.0 | 7637.1 | 7470.5 | 7162.4 | 6718.9 | 6656.4 |
| 45°   | 7154.0 | 7170.7 | 7426.8 | 7747.4 | 8047.3 | 8178.4 | 8190.9 | 7889.0 | 7424.7 | 6891.7 | 6758.4 |
| 47.5° | 7501.7 | 7528.8 | 7751.6 | 8059.7 | 8390.8 | 8509.5 | 8484.5 | 8107.6 | 7549.6 | 7004.1 | 6783.4 |
| 50°   | 7505.9 | 7551.7 | 7793.2 | 8091.0 | 8411.6 | 8555.3 | 8519.9 | 8170.1 | 7620.4 | 7008.3 | 6723.0 |
| 52.5° | 6841.7 | 6916.7 | 7310.2 | 7741.2 | 8232.6 | 8478.2 | 8486.6 | 8251.3 | 7593.4 | 6941.7 | 6668.9 |
| 55°   | 5161.5 | 5242.7 | 5738.2 | 6473.2 | 7422.6 | 8107.6 | 8226.3 | 8155.5 | 7562.1 | 6970.8 | 6764.7 |
| 57.5° | 2731.7 | 2669.2 | 2944.1 | 3672.8 | 4865.8 | 6077.6 | 6425.3 | 6991.6 | 7214.4 | 7006.2 | 6941.7 |
| 60°   | 595.5  | 635.0  | 845.3  | 1138.9 | 1898.9 | 2858.7 | 3198.1 | 4168.3 | 5321.8 | 5834.0 | 6204.6 |
| 62.5° | 256.1  | 251.9  | 262.3  | 297.7  | 435.2  | 724.6  | 884.9  | 1445.0 | 2279.9 | 3131.5 | 3708.2 |
| 65°   | 210.3  | 212.4  | 220.7  | 220.7  | 206.1  | 208.2  | 218.6  | 331.1  | 533.0  | 747.5  | 1003.6 |
| 67.5° | 158.2  | 160.3  | 174.9  | 179.1  | 168.6  | 149.9  | 147.8  | 124.9  | 131.2  | 164.5  | 170.7  |
| 70°   | 99.9   | 99.9   | 108.3  | 112.4  | 112.4  | 104.1  | 102.0  | 89.5   | 87.4   | 99.9   | 112.4  |
| 72.5° | 54.1   | 54.1   | 58.3   | 60.4   | 58.3   | 56.2   | 56.2   | 54.1   | 52.1   | 60.4   | 77.0   |
| 75°   | 22.9   | 22.9   | 25.0   | 25.0   | 22.9   | 22.9   | 22.9   | 22.9   | 22.9   | 27.1   | 41.6   |
| 77.5° | 4.2    | 6.2    | 8.3    | 6.2    | 4.2    | 4.2    | 4.2    | 6.2    | 6.2    | 8.3    | 12.5   |
| 80°   | 2.1    | 2.1    | 4.2    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    |
| 82.5° | 2.1    | 2.1    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 | 2677.6 |
| 2.5°  | 2723.4 | 2700.5 | 2708.8 | 2713.0 | 2706.7 | 2702.5 | 2679.6 | 2673.4 | 2663.0 | 2646.3 | 2642.2 |
| 5°    | 2815.0 | 2796.2 | 2794.2 | 2781.7 | 2752.5 | 2717.1 | 2673.4 | 2654.7 | 2633.8 | 2613.0 | 2608.8 |
| 7.5°  | 2969.1 | 2946.1 | 2931.6 | 2889.9 | 2823.3 | 2767.1 | 2694.2 | 2654.7 | 2627.6 | 2600.5 | 2594.3 |
| 10°   | 3166.8 | 3139.8 | 3098.1 | 3021.1 | 2931.6 | 2850.4 | 2765.0 | 2713.0 | 2671.3 | 2633.8 | 2631.8 |
| 12.5° | 3377.1 | 3348.0 | 3273.0 | 3175.2 | 3066.9 | 2992.0 | 2883.7 | 2810.8 | 2748.3 | 2692.1 | 2685.9 |
| 15°   | 3597.8 | 3562.4 | 3460.4 | 3343.8 | 3243.9 | 3166.8 | 3048.2 | 2931.6 | 2835.8 | 2754.6 | 2746.3 |
| 17.5° | 3766.5 | 3722.8 | 3602.0 | 3514.6 | 3433.4 | 3354.2 | 3221.0 | 3066.9 | 2939.9 | 2842.0 | 2819.1 |
| 20°   | 3872.7 | 3831.0 | 3716.5 | 3668.6 | 3631.2 | 3574.9 | 3416.7 | 3256.4 | 3114.8 | 2994.0 | 2973.2 |
| 22.5° | 3974.7 | 3924.7 | 3824.8 | 3824.8 | 3853.9 | 3831.0 | 3660.3 | 3477.1 | 3310.5 | 3171.0 | 3139.8 |
| 25°   | 4089.2 | 4049.7 | 3978.9 | 4037.2 | 4110.0 | 4107.9 | 3933.1 | 3704.0 | 3512.5 | 3356.3 | 3325.1 |
| 27.5° | 4255.8 | 4216.2 | 4191.2 | 4301.6 | 4393.2 | 4386.9 | 4195.4 | 3947.6 | 3745.7 | 3591.6 | 3562.4 |
| 30°   | 4549.4 | 4511.9 | 4484.8 | 4618.1 | 4734.7 | 4690.9 | 4480.6 | 4241.2 | 4037.2 | 3862.3 | 3841.4 |
| 32.5° | 4940.8 | 4901.2 | 4865.8 | 4999.1 | 5103.2 | 5047.0 | 4847.1 | 4622.2 | 4386.9 | 4216.2 | 4174.6 |
| 35°   | 5455.1 | 5371.8 | 5336.4 | 5494.6 | 5538.3 | 5475.9 | 5284.3 | 5086.5 | 4836.7 | 4641.0 | 4613.9 |
| 37.5° | 5986.0 | 5888.1 | 5863.1 | 6000.6 | 6071.4 | 6048.5 | 5823.6 | 5617.5 | 5346.8 | 5130.3 | 5099.0 |
| 40°   | 6439.9 | 6350.4 | 6306.6 | 6521.1 | 6681.4 | 6696.0 | 6494.0 | 6242.1 | 5923.5 | 5698.7 | 5642.4 |
| 42.5° | 6706.4 | 6629.4 | 6618.9 | 6952.1 | 7214.4 | 7401.8 | 7160.3 | 6900.0 | 6564.8 | 6310.8 | 6265.0 |
| 45°   | 6766.8 | 6716.8 | 6804.2 | 7241.5 | 7649.6 | 7991.0 | 7784.9 | 7510.1 | 7147.8 | 6879.2 | 6835.5 |
| 47.5° | 6760.5 | 6743.9 | 6900.0 | 7391.4 | 7907.8 | 8328.3 | 8226.3 | 7916.1 | 7566.3 | 7285.2 | 7243.6 |
| 50°   | 6671.0 | 6673.1 | 6933.3 | 7466.3 | 8011.9 | 8419.9 | 8317.9 | 8030.6 | 7718.3 | 7441.4 | 7408.1 |
| 52.5° | 6635.6 | 6623.1 | 6870.9 | 7443.4 | 8118.0 | 8378.3 | 8149.3 | 7826.5 | 7478.8 | 7137.4 | 7087.4 |
| 55°   | 6760.5 | 6729.3 | 6879.2 | 7424.7 | 8130.5 | 8355.4 | 7751.6 | 7052.0 | 6339.9 | 5936.0 | 5902.7 |
| 57.5° | 6947.9 | 6914.6 | 6985.4 | 7287.3 | 7478.8 | 6947.9 | 5704.9 | 4576.4 | 3843.5 | 3533.3 | 3398.0 |
| 60°   | 6204.6 | 6181.7 | 6127.6 | 5763.2 | 4942.9 | 3729.0 | 2540.1 | 1619.9 | 1163.9 | 941.1  | 941.1  |
| 62.5° | 3849.8 | 3818.5 | 3525.0 | 2619.3 | 1903.0 | 1101.4 | 605.9  | 378.9  | 287.3  | 268.6  | 266.5  |
| 65°   | 1080.6 | 1074.4 | 889.0  | 628.8  | 399.8  | 247.8  | 218.6  | 222.8  | 218.6  | 212.4  | 210.3  |
| 67.5° | 162.4  | 179.1  | 179.1  | 145.7  | 139.5  | 156.2  | 183.2  | 195.7  | 185.3  | 174.9  | 170.7  |
| 70°   | 104.1  | 112.4  | 108.3  | 93.7   | 99.9   | 116.6  | 131.2  | 133.3  | 127.0  | 116.6  | 114.5  |
| 72.5° | 72.9   | 81.2   | 66.6   | 60.4   | 62.5   | 68.7   | 75.0   | 75.0   | 72.9   | 68.7   | 64.5   |
| 75°   | 43.7   | 43.7   | 31.2   | 29.1   | 29.1   | 31.2   | 31.2   | 35.4   | 35.4   | 33.3   | 31.2   |
| 77.5° | 14.6   | 16.7   | 10.4   | 8.3    | 8.3    | 8.3    | 10.4   | 12.5   | 12.5   | 10.4   | 8.3    |
| 80°   | 2.1    | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2    | 4.2    | 2.1    |
| 82.5° | 2.1    | 2.1    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 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)