

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P510405

Luminaire Tested: **CTN-CA10-210-727-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-210-727-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30710 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

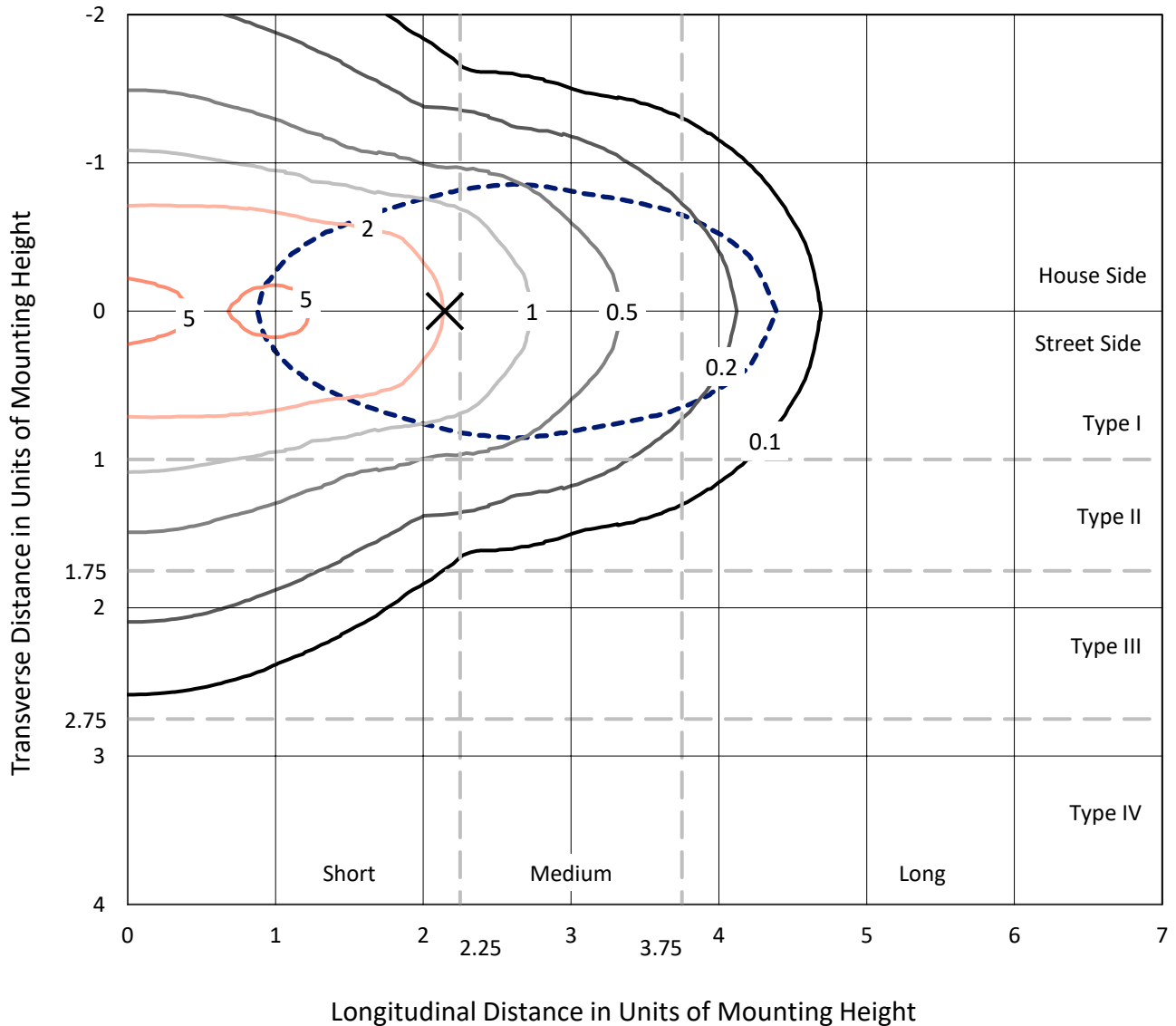
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

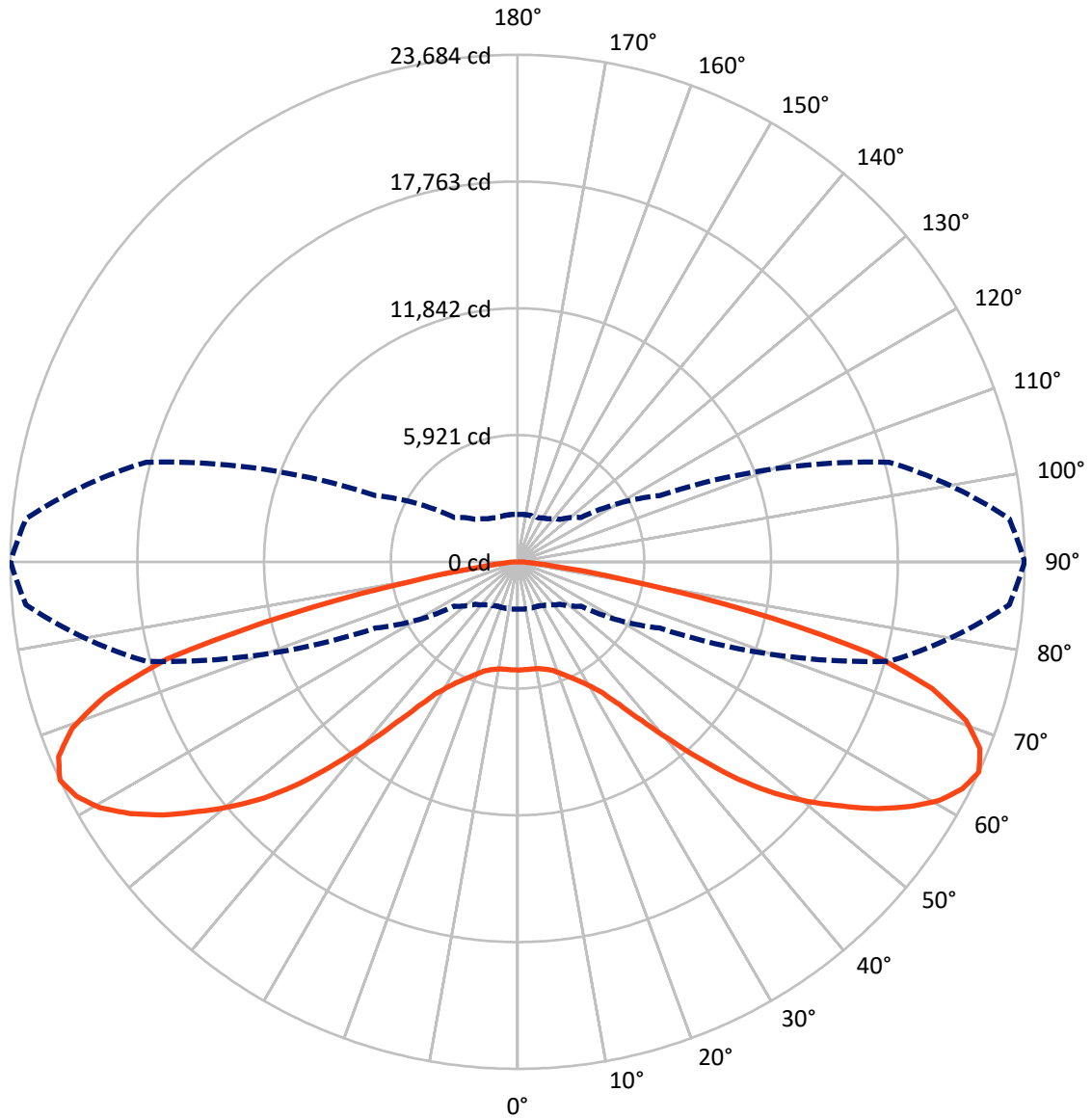
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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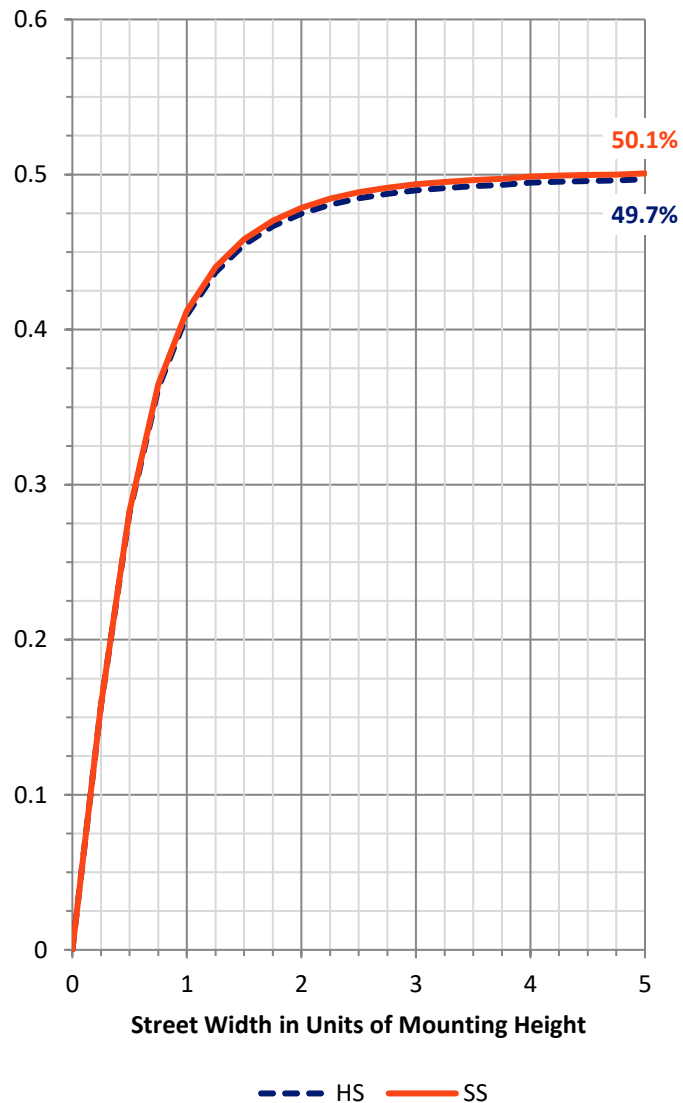
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15355.0  | 0.0    | 15355.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15355.0  | 0.0    | 15355.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30710.0  | 0.0    | 30710.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 480.1   | 1.6       |
| 10°-20°   | 1416.8  | 4.6       |
| 20°-30°   | 2333.9  | 7.6       |
| 30°-40°   | 3419.4  | 11.1      |
| 40°-50°   | 5056.0  | 16.5      |
| 50°-60°   | 6632.2  | 21.6      |
| 60°-70°   | 6919.2  | 22.5      |
| 70°-80°   | 3978.2  | 13.0      |
| 80°-90°   | 474.2   | 1.5       |
| 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°    | 30710.0 | 100.0     |
| 0°-180°   | 30710.0 | 100.0     |

**Coefficient of Utilization**

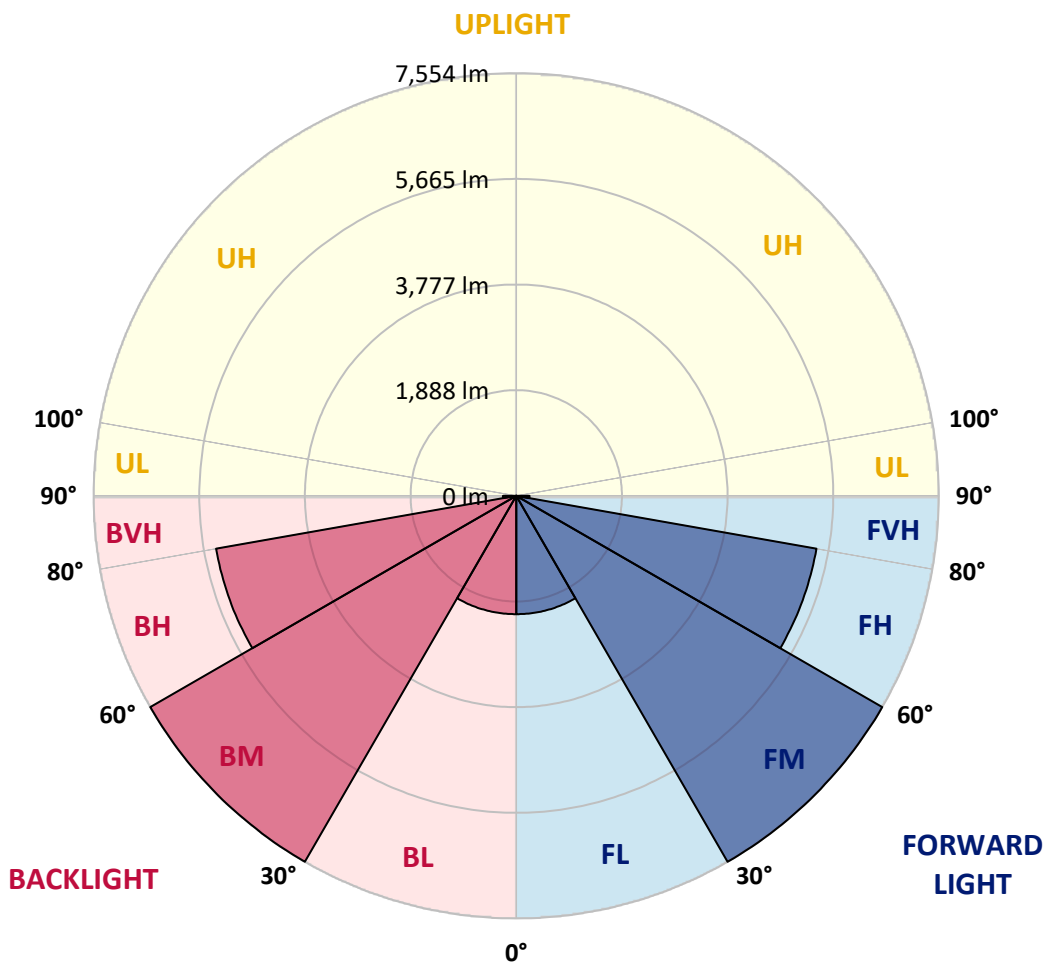


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2115.4 | 6.9       |                         |      |         |
| FM (30°-60°)   | 7553.8 | 24.6      |                         |      |         |
| FH (60°-80°)   | 5448.7 | 17.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 237.1  | 0.8       |                         |      | G3/500  |
| BL (0°-30°)    | 2115.4 | 6.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 7553.8 | 24.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 5448.7 | 17.7      | B5                      |      | G5      |
| BVH (80°-90°)  | 237.1  | 0.8       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5059.4 | 5059.4 | 5059.4 | 5059.4 | 5059.4 | 5059.4 | 5059.4 | 5059.4 | 5059.4 | 5059.4 | 5059.4 |
| 2.5°   | 5058.2 | 5054.6 | 5053.4 | 5051.6 | 5054.6 | 5057.0 | 5063.0 | 5068.4 | 5067.2 | 5066.0 | 5067.2 |
| 5°     | 5030.0 | 5031.8 | 5032.4 | 5033.0 | 5035.4 | 5037.2 | 5045.6 | 5054.0 | 5052.8 | 5051.6 | 5057.6 |
| 7.5°   | 4990.4 | 4990.4 | 4989.2 | 4988.0 | 4992.8 | 4997.0 | 5005.4 | 5013.8 | 5020.4 | 5026.4 | 5036.0 |
| 10°    | 4932.7 | 4930.3 | 4929.7 | 4929.1 | 4934.5 | 4939.3 | 4954.9 | 4970.5 | 4983.8 | 4996.4 | 5012.6 |
| 12.5°  | 4862.5 | 4861.9 | 4863.1 | 4864.3 | 4875.7 | 4887.1 | 4913.5 | 4939.9 | 4966.3 | 4992.8 | 5016.2 |
| 15°    | 4779.1 | 4771.9 | 4777.9 | 4783.3 | 4801.9 | 4819.9 | 4870.9 | 4921.9 | 4962.1 | 5001.8 | 5047.4 |
| 17.5°  | 4651.8 | 4644.6 | 4653.6 | 4662.0 | 4699.2 | 4736.5 | 4808.5 | 4879.9 | 4955.5 | 5031.2 | 5096.6 |
| 20°    | 4459.1 | 4459.1 | 4482.0 | 4504.8 | 4567.8 | 4630.8 | 4729.9 | 4828.3 | 4930.3 | 5032.4 | 5127.2 |
| 22.5°  | 4253.9 | 4247.9 | 4296.5 | 4345.1 | 4420.7 | 4495.8 | 4620.6 | 4745.5 | 4880.5 | 5015.0 | 5145.2 |
| 25°    | 4022.2 | 4032.4 | 4093.6 | 4154.2 | 4260.5 | 4366.1 | 4519.8 | 4672.8 | 4842.7 | 5012.6 | 5193.2 |
| 27.5°  | 3826.5 | 3828.3 | 3902.1 | 3976.0 | 4109.2 | 4241.9 | 4428.5 | 4615.2 | 4822.3 | 5029.4 | 5256.9 |
| 30°    | 3624.2 | 3657.2 | 3735.3 | 3812.7 | 3961.6 | 4110.4 | 4336.1 | 4561.2 | 4806.7 | 5052.2 | 5329.5 |
| 32.5°  | 3468.8 | 3476.6 | 3564.8 | 3652.4 | 3807.9 | 3963.4 | 4225.7 | 4488.0 | 4782.7 | 5077.4 | 5414.7 |
| 35°    | 3322.3 | 3334.9 | 3417.1 | 3499.4 | 3661.4 | 3822.9 | 4110.4 | 4397.3 | 4749.7 | 5101.4 | 5507.2 |
| 37.5°  | 3192.1 | 3207.7 | 3285.7 | 3363.7 | 3519.8 | 3675.8 | 3980.8 | 4285.7 | 4698.6 | 5111.6 | 5608.6 |
| 40°    | 3096.6 | 3109.8 | 3175.8 | 3241.9 | 3382.9 | 3523.4 | 3842.7 | 4161.4 | 4627.2 | 5093.0 | 5688.4 |
| 42.5°  | 3027.6 | 3033.6 | 3087.0 | 3140.4 | 3266.5 | 3392.5 | 3708.9 | 4024.6 | 4534.2 | 5043.8 | 5750.3 |
| 45°    | 2933.9 | 2947.2 | 3000.0 | 3052.2 | 3165.6 | 3278.5 | 3567.8 | 3857.1 | 4396.1 | 4934.5 | 5750.9 |
| 47.5°  | 2864.3 | 2872.7 | 2922.5 | 2971.8 | 3077.4 | 3183.0 | 3442.9 | 3702.9 | 4240.1 | 4776.7 | 5686.0 |
| 50°    | 2813.3 | 2809.1 | 2855.3 | 2900.9 | 2990.4 | 3079.2 | 3310.9 | 3542.0 | 4046.8 | 4551.6 | 5524.0 |
| 52.5°  | 2740.7 | 2745.5 | 2782.7 | 2819.9 | 2897.3 | 2974.2 | 3181.8 | 3388.9 | 3832.5 | 4275.5 | 5261.1 |
| 55°    | 2643.4 | 2665.6 | 2696.9 | 2727.5 | 2795.3 | 2863.1 | 3049.8 | 3236.5 | 3618.2 | 3999.4 | 4922.5 |
| 57.5°  | 2548.0 | 2564.2 | 2590.6 | 2617.0 | 2670.4 | 2723.3 | 2899.1 | 3075.0 | 3392.5 | 3710.1 | 4495.2 |
| 60°    | 2470.0 | 2474.2 | 2491.0 | 2507.2 | 2548.0 | 2588.8 | 2734.1 | 2879.3 | 3156.6 | 3433.3 | 4069.0 |
| 62.5°  | 2369.1 | 2370.3 | 2381.7 | 2393.1 | 2418.3 | 2443.0 | 2557.0 | 2670.4 | 2906.9 | 3143.4 | 3645.2 |
| 65°    | 2211.3 | 2220.9 | 2231.7 | 2241.9 | 2258.7 | 2274.9 | 2361.9 | 2449.0 | 2626.0 | 2803.1 | 3207.7 |
| 67.5°  | 2051.6 | 2043.2 | 2055.8 | 2068.4 | 2070.8 | 2073.2 | 2139.2 | 2205.3 | 2350.5 | 2495.8 | 2821.1 |
| 70°    | 1791.7 | 1798.3 | 1797.1 | 1795.3 | 1785.1 | 1774.3 | 1820.5 | 1866.7 | 1943.6 | 2019.8 | 2255.1 |
| 72.5°  | 1373.9 | 1364.9 | 1342.1 | 1318.7 | 1307.9 | 1297.1 | 1351.1 | 1404.6 | 1461.0 | 1517.4 | 1687.3 |
| 75°    | 839.7  | 865.5  | 913.0  | 959.8  | 977.8  | 995.8  | 992.8  | 989.2  | 984.4  | 979.6  | 1191.5 |
| 77.5°  | 569.0  | 582.8  | 593.6  | 603.8  | 630.2  | 656.1  | 686.1  | 716.1  | 715.5  | 714.9  | 848.1  |
| 80°    | 361.9  | 351.1  | 355.9  | 360.7  | 375.7  | 390.8  | 436.4  | 481.4  | 494.0  | 506.0  | 597.8  |
| 82.5°  | 226.9  | 228.7  | 234.7  | 240.1  | 223.3  | 206.5  | 241.9  | 276.7  | 306.7  | 336.1  | 378.7  |
| 85°    | 147.1  | 166.9  | 163.9  | 160.9  | 141.1  | 121.2  | 152.5  | 183.7  | 198.1  | 211.9  | 228.1  |
| 87.5°  | 47.4   | 55.2   | 57.0   | 58.2   | 58.2   | 57.6   | 64.2   | 70.8   | 73.2   | 75.0   | 81.0   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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):**

|        | 55°    | 60°    | 65°    | 70°     | 75°     | 80°     | 85°     | 90°     |
|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°     | 5059.4 | 5059.4 | 5059.4 | 5059.4  | 5059.4  | 5059.4  | 5059.4  | 5059.4  |
| 2.5°   | 5067.8 | 5061.8 | 5055.8 | 5054.0  | 5052.2  | 5051.0  | 5049.8  | 5048.6  |
| 5°     | 5063.0 | 5061.8 | 5060.6 | 5055.8  | 5051.0  | 5050.4  | 5049.8  | 5051.6  |
| 7.5°   | 5045.6 | 5045.6 | 5045.6 | 5051.0  | 5056.4  | 5054.0  | 5051.0  | 5054.6  |
| 10°    | 5028.2 | 5042.6 | 5057.0 | 5061.2  | 5065.4  | 5068.4  | 5071.4  | 5074.4  |
| 12.5°  | 5039.6 | 5064.2 | 5088.2 | 5102.0  | 5115.8  | 5123.0  | 5129.6  | 5131.4  |
| 15°    | 5093.0 | 5124.2 | 5155.4 | 5174.0  | 5192.0  | 5204.0  | 5216.0  | 5219.0  |
| 17.5°  | 5162.0 | 5210.0 | 5257.5 | 5284.5  | 5311.5  | 5325.3  | 5338.5  | 5334.3  |
| 20°    | 5221.4 | 5287.5 | 5353.5 | 5411.1  | 5468.7  | 5500.6  | 5531.8  | 5535.4  |
| 22.5°  | 5274.9 | 5385.9 | 5497.0 | 5571.4  | 5645.2  | 5701.6  | 5758.1  | 5764.1  |
| 25°    | 5373.3 | 5518.6 | 5663.8 | 5782.7  | 5901.5  | 5953.1  | 6004.2  | 6034.2  |
| 27.5°  | 5483.7 | 5678.2 | 5872.7 | 6031.8  | 6190.8  | 6269.5  | 6347.5  | 6351.7  |
| 30°    | 5606.2 | 5852.9 | 6099.0 | 6312.7  | 6525.8  | 6621.8  | 6717.2  | 6767.7  |
| 32.5°  | 5751.5 | 6064.8 | 6377.5 | 6658.4  | 6939.3  | 7085.2  | 7231.0  | 7282.1  |
| 35°    | 5912.3 | 6318.7 | 6724.4 | 7111.6  | 7498.1  | 7777.2  | 8056.4  | 8190.8  |
| 37.5°  | 6105.6 | 6623.0 | 7140.4 | 7722.0  | 8303.7  | 8779.6  | 9255.0  | 9390.7  |
| 40°    | 6283.9 | 6949.5 | 7614.6 | 8422.5  | 9230.4  | 9985.5  | 10740.0 | 10887.1 |
| 42.5°  | 6456.7 | 7262.2 | 8067.8 | 9169.8  | 10271.8 | 11282.6 | 12293.4 | 12675.8 |
| 45°    | 6566.6 | 7540.8 | 8514.3 | 9967.5  | 11420.7 | 12808.4 | 14195.6 | 14516.7 |
| 47.5°  | 6594.8 | 7739.4 | 8884.1 | 10684.2 | 12484.3 | 14117.5 | 15750.2 | 16162.5 |
| 50°    | 6496.3 | 7842.7 | 9189.0 | 11564.7 | 13939.9 | 15603.1 | 17265.8 | 17604.3 |
| 52.5°  | 6246.6 | 7809.7 | 9372.7 | 12247.2 | 15121.7 | 16882.2 | 18642.7 | 18950.0 |
| 55°    | 5845.7 | 7609.2 | 9372.7 | 12809.0 | 16244.8 | 18070.7 | 19896.0 | 20363.0 |
| 57.5°  | 5280.3 | 7226.2 | 9172.2 | 13184.2 | 17196.1 | 19179.3 | 21162.5 | 21582.1 |
| 60°    | 4704.6 | 6770.7 | 8836.1 | 13391.2 | 17946.4 | 20047.3 | 22148.1 | 22637.9 |
| 62.5°  | 4146.4 | 6151.8 | 8156.6 | 13174.0 | 18191.3 | 20409.2 | 22626.5 | 23331.1 |
| 65°    | 3612.2 | 5464.5 | 7316.9 | 12644.0 | 17970.4 | 20511.8 | 23052.6 | 23684.1 |
| 67.5°  | 3146.4 | 4890.1 | 6633.8 | 11755.6 | 16877.4 | 19690.1 | 22502.2 | 23289.1 |
| 70°    | 2490.4 | 4094.8 | 5699.2 | 10180.6 | 14661.9 | 17956.0 | 21250.1 | 22221.3 |
| 72.5°  | 1857.1 | 3217.9 | 4578.0 | 8008.3  | 11438.7 | 15226.8 | 19014.2 | 20236.3 |
| 75°    | 1402.7 | 2570.2 | 3737.7 | 6330.1  | 8922.5  | 12129.6 | 15336.6 | 16972.2 |
| 77.5°  | 981.4  | 1857.1 | 2732.3 | 4666.2  | 6600.2  | 8375.7  | 10151.2 | 11022.7 |
| 80°    | 689.1  | 1174.7 | 1659.6 | 2590.0  | 3519.8  | 4307.3  | 5094.2  | 5031.8  |
| 82.5°  | 420.8  | 624.8  | 828.3  | 1123.6  | 1419.0  | 1609.2  | 1799.5  | 1791.1  |
| 85°    | 244.3  | 297.1  | 349.3  | 432.8   | 516.2   | 610.4   | 704.7   | 626.6   |
| 87.5°  | 86.4   | 86.4   | 86.4   | 99.0    | 111.6   | 153.7   | 195.7   | 206.5   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)