

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: STREETWORKS

Report Number: P579646

Luminaire Tested: **CST-CA8-230-727-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-230-727-U-T5-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (8) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22315 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U2 - G4

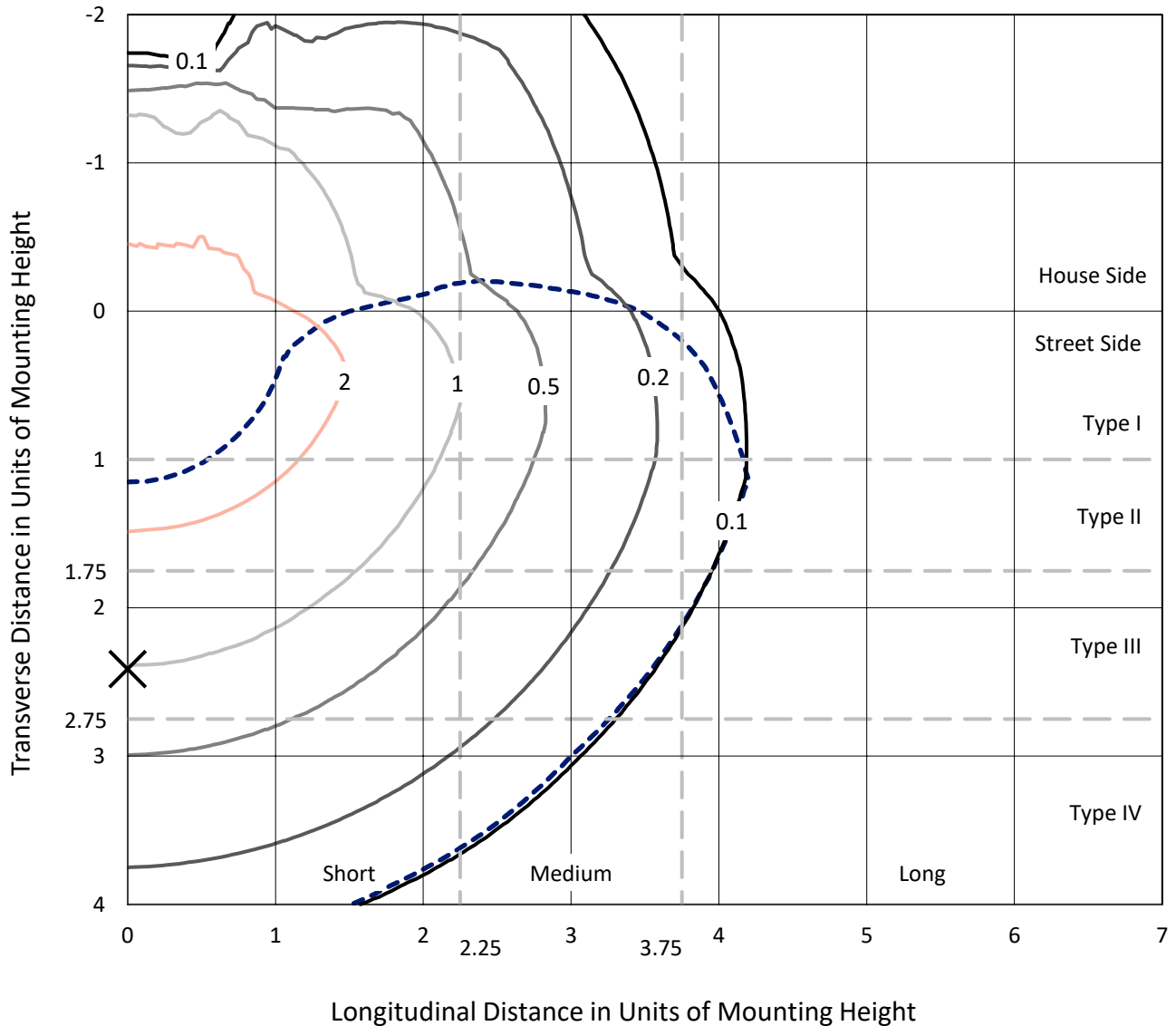
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

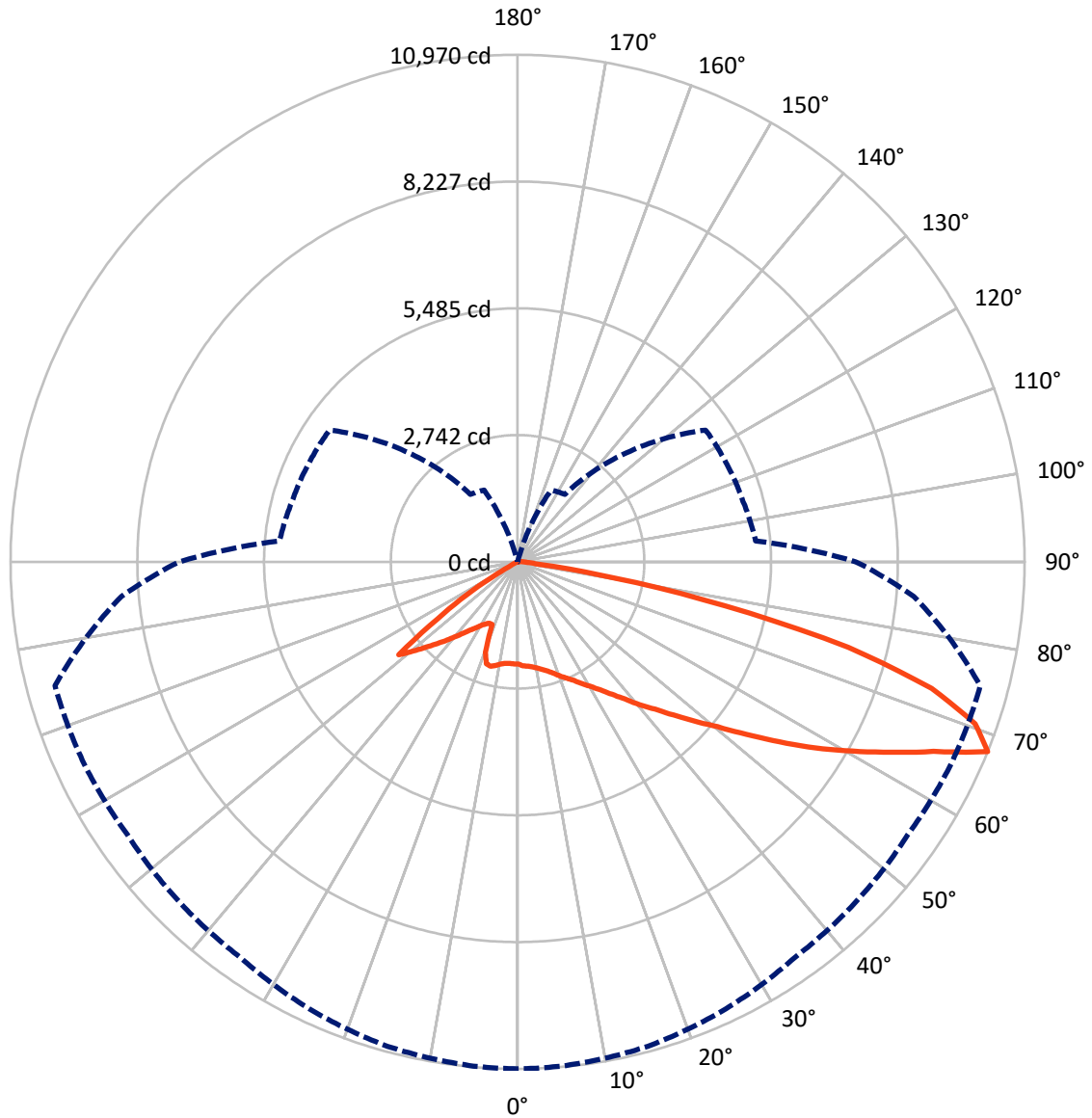
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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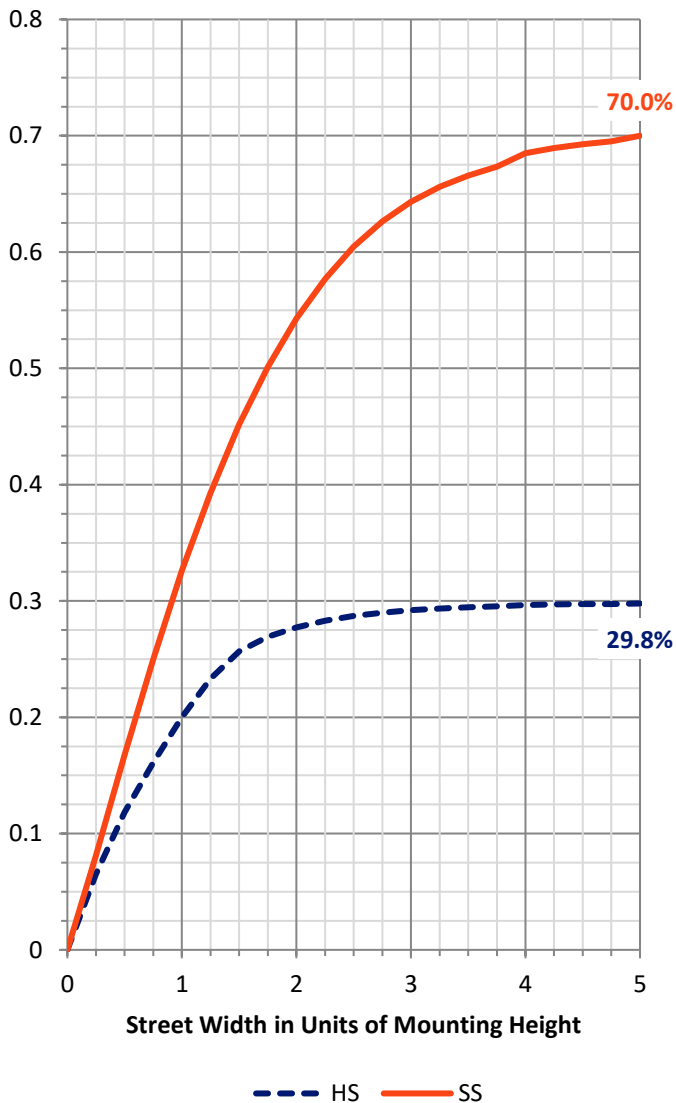
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6661.2   | 2.2    | 6663.4  |
|                    | % Fixture | 29.9     | 0.0    | 29.9    |
| <b>Street Side</b> | Lumens    | 15626.5  | 25.1   | 15651.6 |
|                    | % Fixture | 70.0     | 0.1    | 70.1    |
| <b>Total</b>       | Lumens    | 22287.6  | 27.4   | 22315.0 |
|                    | % Fixture | 99.9     | 0.1    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 213.2   | 1.0       |
| 10°-20°   | 659.9   | 3.0       |
| 20°-30°   | 1107.5  | 5.0       |
| 30°-40°   | 1795.9  | 8.0       |
| 40°-50°   | 2934.7  | 13.2      |
| 50°-60°   | 4599.2  | 20.6      |
| 60°-70°   | 6159.7  | 27.6      |
| 70°-80°   | 4489.6  | 20.1      |
| 80°-90°   | 327.9   | 1.5       |
| 90°-100°  | 21.0    | 0.1       |
| 100°-110° | 6.0     | 0.0       |
| 110°-120° | 0.4     | 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°    | 22287.6 | 99.9      |
| 0°-180°   | 22315.0 | 100.0     |



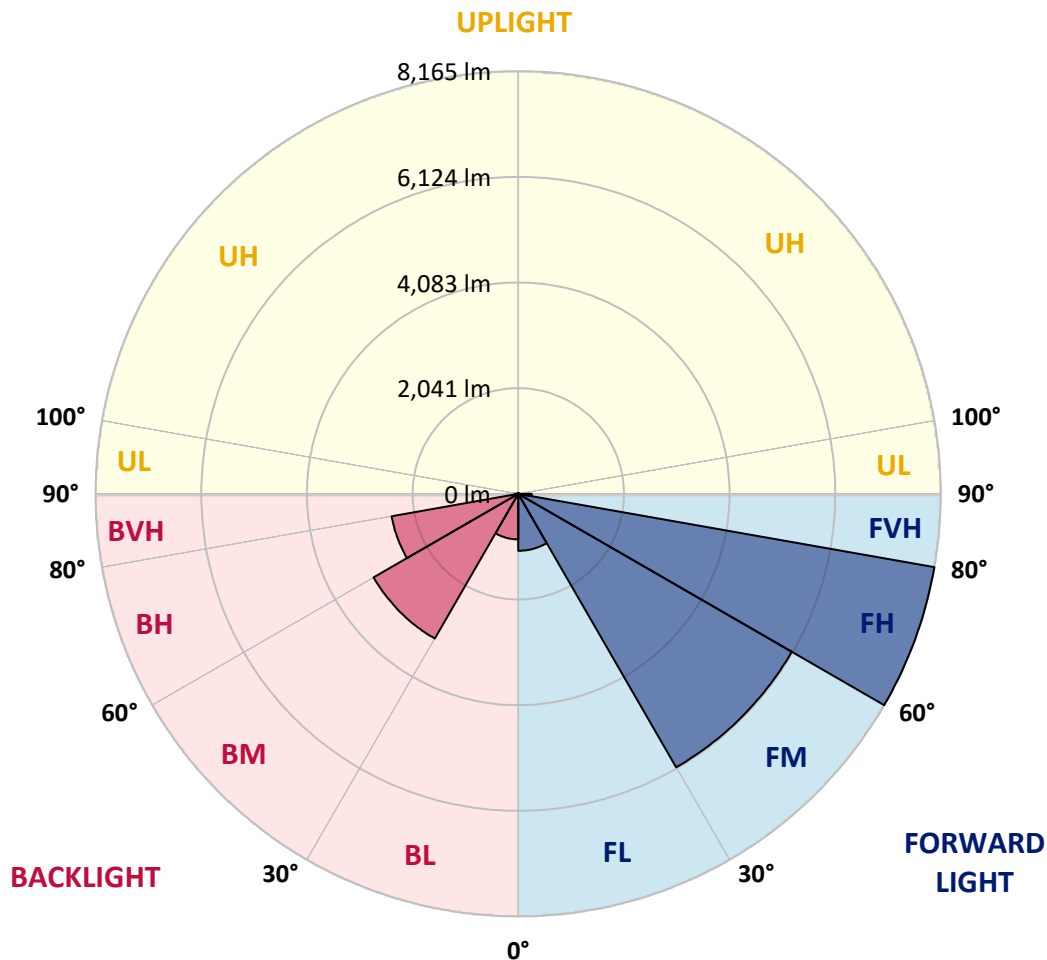
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |          |
|----------------|--------|-----------|-------------------------|-------|----------|
|                |        |           | B                       | U     | G        |
| FL (0°-30°)    | 1100.7 | 4.9       |                         |       |          |
| FM (30°-60°)   | 6101.3 | 27.3      |                         |       |          |
| FH (60°-80°)   | 8165.2 | 36.6      |                         |       | G4/12000 |
| FVH (80°-90°)  | 259.3  | 1.2       |                         |       | G3/500   |
| BL (0°-30°)    | 880.0  | 3.9       | B2/1000                 |       |          |
| BM (30°-60°)   | 3228.5 | 14.5      | B3/5000                 |       |          |
| BH (60°-80°)   | 2484.1 | 11.1      | B3/2500                 |       | G3/2500  |
| BVH (80°-90°)  | 68.6   | 0.3       |                         |       | G1/100   |
| UL (90°-100°)  | 21.0   | 0.1       |                         | U2/50 |          |
| UH (100°-180°) | 6.4    | 0.0       |                         | U1/10 |          |

**BUG Rating: B3-U2-G4**

Type IV Short





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CATALOG NUMBER: CST-CA8-230-727-U-T5-HSS-HM-EX120

**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°     | 2211.2  | 2211.2  | 2211.2  | 2211.2  | 2211.2  | 2211.2  | 2211.2  | 2211.2  | 2211.2  | 2211.2 | 2211.2 |
| 2.5°   | 2253.4  | 2240.2  | 2241.2  | 2253.4  | 2216.8  | 2229.0  | 2213.0  | 2225.2  | 2216.8  | 2219.6 | 2225.2 |
| 5°     | 2267.4  | 2253.4  | 2254.3  | 2269.3  | 2236.5  | 2246.8  | 2225.2  | 2231.8  | 2224.3  | 2228.0 | 2228.0 |
| 7.5°   | 2295.6  | 2279.6  | 2278.7  | 2288.1  | 2254.3  | 2258.1  | 2238.4  | 2239.3  | 2228.0  | 2235.6 | 2231.8 |
| 10°    | 2337.8  | 2324.7  | 2315.3  | 2320.9  | 2290.9  | 2289.0  | 2263.7  | 2264.6  | 2250.6  | 2259.0 | 2252.4 |
| 12.5°  | 2389.4  | 2371.6  | 2369.7  | 2371.6  | 2338.7  | 2331.2  | 2305.0  | 2306.9  | 2281.5  | 2294.7 | 2287.1 |
| 15°    | 2455.1  | 2426.9  | 2426.9  | 2437.2  | 2395.0  | 2389.4  | 2357.5  | 2359.4  | 2333.1  | 2343.4 | 2335.9 |
| 17.5°  | 2535.8  | 2508.5  | 2503.9  | 2511.4  | 2474.8  | 2467.3  | 2434.4  | 2432.6  | 2403.5  | 2406.3 | 2399.7 |
| 20°    | 2639.9  | 2612.7  | 2601.4  | 2620.2  | 2574.2  | 2568.6  | 2529.2  | 2525.4  | 2494.5  | 2486.0 | 2482.3 |
| 22.5°  | 2736.5  | 2714.9  | 2709.3  | 2729.9  | 2682.1  | 2677.4  | 2639.9  | 2635.2  | 2606.1  | 2593.9 | 2519.8 |
| 25°    | 2845.3  | 2840.6  | 2838.8  | 2845.3  | 2800.3  | 2790.9  | 2761.8  | 2755.3  | 2730.9  | 2715.9 | 2625.8 |
| 27.5°  | 2986.1  | 2984.2  | 2978.5  | 2979.5  | 2938.2  | 2929.8  | 2902.6  | 2897.9  | 2872.5  | 2855.7 | 2740.3 |
| 30°    | 3133.3  | 3133.3  | 3121.1  | 3127.7  | 3107.1  | 3093.9  | 3072.4  | 3055.5  | 3039.5  | 3021.7 | 2876.3 |
| 32.5°  | 3303.1  | 3302.2  | 3290.9  | 3310.6  | 3295.6  | 3295.6  | 3282.5  | 3264.7  | 3236.5  | 3228.1 | 3051.7 |
| 35°    | 3521.7  | 3507.7  | 3503.0  | 3534.9  | 3530.2  | 3538.6  | 3533.9  | 3515.2  | 3491.7  | 3472.0 | 3258.1 |
| 37.5°  | 3763.8  | 3760.0  | 3774.1  | 3793.8  | 3804.1  | 3826.6  | 3812.5  | 3811.6  | 3807.9  | 3758.1 | 3202.8 |
| 40°    | 4062.1  | 4046.1  | 4065.8  | 4076.2  | 4068.7  | 4105.2  | 4093.0  | 4103.4  | 4131.5  | 3731.9 | 3199.0 |
| 42.5°  | 4359.5  | 4345.4  | 4359.5  | 4410.1  | 4398.9  | 4443.0  | 4437.3  | 4477.7  | 4493.6  | 3787.2 | 3458.9 |
| 45°    | 4725.3  | 4709.4  | 4720.6  | 4780.7  | 4786.3  | 4839.8  | 4868.9  | 4907.3  | 4914.8  | 4145.6 | 3772.2 |
| 47.5°  | 5145.6  | 5119.4  | 5140.9  | 5169.1  | 5254.4  | 5305.1  | 5333.2  | 5380.1  | 5428.0  | 4577.1 | 4128.7 |
| 50°    | 5609.1  | 5607.2  | 5630.6  | 5679.4  | 5777.0  | 5827.6  | 5876.4  | 5925.2  | 6004.0  | 5058.4 | 4528.3 |
| 52.5°  | 6198.2  | 6186.0  | 6226.3  | 6272.3  | 6358.6  | 6436.5  | 6494.6  | 6545.3  | 6629.7  | 5545.3 | 4960.8 |
| 55°    | 6871.8  | 6829.6  | 6906.5  | 6984.3  | 7020.9  | 7112.9  | 7153.2  | 7195.4  | 7276.1  | 6057.5 | 5213.2 |
| 57.5°  | 7598.8  | 7588.5  | 7642.0  | 7670.1  | 7748.9  | 7806.1  | 7827.7  | 7873.7  | 7872.7  | 6590.3 | 5642.8 |
| 60°    | 8314.6  | 8303.3  | 8366.2  | 8383.1  | 8445.9  | 8497.5  | 8490.0  | 8531.3  | 8546.3  | 7090.4 | 6064.0 |
| 62.5°  | 9067.9  | 9049.2  | 9107.3  | 9111.1  | 9073.5  | 9157.0  | 9148.6  | 9183.3  | 9170.2  | 7579.1 | 6478.7 |
| 65°    | 9891.6  | 9905.7  | 9924.4  | 9847.5  | 9757.4  | 9829.7  | 9827.8  | 9893.5  | 9940.4  | 8262.1 | 7034.1 |
| 67.5°  | 10969.5 | 10951.7 | 10855.0 | 10669.3 | 10450.7 | 10377.5 | 10299.7 | 10347.5 | 10360.7 | 8601.7 | 7318.3 |
| 70°    | 10504.2 | 10464.8 | 10421.6 | 10232.1 | 9968.5  | 9782.8  | 9661.8  | 9712.4  | 9765.9  | 8128.9 | 6873.6 |
| 72.5°  | 9370.0  | 9272.4  | 9071.7  | 8904.7  | 8752.7  | 8571.7  | 8424.4  | 8512.6  | 8629.8  | 7210.4 | 6086.6 |
| 75°    | 7392.4  | 7301.4  | 7155.1  | 7041.6  | 6960.0  | 6958.1  | 6951.5  | 7020.0  | 7003.1  | 5854.8 | 4948.6 |
| 77.5°  | 4578.1  | 4768.5  | 4903.6  | 4807.0  | 4840.7  | 4771.3  | 4924.2  | 5014.3  | 5095.9  | 4197.2 | 3525.5 |
| 80°    | 2113.6  | 2162.4  | 2401.6  | 2339.7  | 2290.0  | 2275.9  | 2285.3  | 2441.9  | 2487.9  | 1883.8 | 1577.9 |
| 82.5°  | 482.2   | 462.5   | 479.4   | 444.7   | 442.8   | 422.2   | 425.0   | 425.0   | 410.0   | 347.1  | 290.8  |
| 85°    | 243.9   | 249.5   | 251.4   | 241.1   | 213.0   | 191.4   | 177.3   | 150.1   | 129.5   | 110.7  | 93.8   |
| 87.5°  | 163.2   | 167.9   | 170.7   | 156.7   | 140.7   | 122.9   | 111.6   | 91.0    | 72.2    | 45.0   | 34.7   |
| 90°    | 111.6   | 110.7   | 107.9   | 100.4   | 90.1    | 76.9    | 61.9    | 43.2    | 25.3    | 9.4    | 6.6    |
| 92.5°  | 79.7    | 77.9    | 76.9    | 70.4    | 62.9    | 52.5    | 40.3    | 27.2    | 14.1    | 6.6    | 3.8    |
| 95°    | 52.5    | 51.6    | 51.6    | 47.8    | 42.2    | 34.7    | 27.2    | 17.8    | 10.3    | 5.6    | 3.8    |
| 97.5°  | 36.6    | 35.6    | 35.6    | 33.8    | 30.0    | 25.3    | 18.8    | 12.2    | 8.4     | 5.6    | 3.8    |
| 100°   | 25.3    | 25.3    | 25.3    | 23.5    | 21.6    | 17.8    | 14.1    | 9.4     | 7.5     | 5.6    | 3.8    |
| 102.5° | 16.9    | 16.9    | 17.8    | 16.9    | 15.0    | 12.2    | 9.4     | 7.5     | 6.6     | 4.7    | 3.8    |
| 105°   | 11.3    | 11.3    | 11.3    | 11.3    | 10.3    | 8.4     | 7.5     | 6.6     | 5.6     | 4.7    | 3.8    |
| 107.5° | 7.5     | 7.5     | 7.5     | 7.5     | 6.6     | 5.6     | 5.6     | 5.6     | 4.7     | 4.7    | 3.8    |
| 110°   | 4.7     | 4.7     | 4.7     | 5.6     | 4.7     | 4.7     | 4.7     | 4.7     | 4.7     | 3.8    | 3.8    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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):**

|        | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 |
| 2.5°   | 2220.5 | 2207.4 | 2214.0 | 2200.8 | 2195.2 | 2183.0 | 2206.5 | 2208.3 | 2206.5 | 2210.2 |
| 5°     | 2223.4 | 2208.3 | 2215.9 | 2200.8 | 2198.0 | 2184.0 | 2207.4 | 2207.4 | 2201.8 | 2204.6 |
| 7.5°   | 2229.9 | 2214.0 | 2219.6 | 2201.8 | 2201.8 | 2184.9 | 2213.0 | 2211.2 | 2206.5 | 2213.0 |
| 10°    | 2252.4 | 2233.7 | 2233.7 | 2216.8 | 2218.7 | 2200.8 | 2235.6 | 2235.6 | 2231.8 | 2243.1 |
| 12.5°  | 2287.1 | 2263.7 | 2264.6 | 2241.2 | 2244.9 | 2230.9 | 2273.1 | 2275.0 | 2275.0 | 2293.7 |
| 15°    | 2332.2 | 2296.5 | 2300.3 | 2275.0 | 2282.5 | 2265.6 | 2303.1 | 2301.2 | 2305.9 | 2333.1 |
| 17.5°  | 2387.5 | 2348.1 | 2315.3 | 2232.7 | 2184.0 | 2185.8 | 2297.5 | 2349.1 | 2289.0 | 2306.9 |
| 20°    | 2411.0 | 2219.6 | 2115.5 | 2085.5 | 2078.9 | 1974.8 | 1761.8 | 1794.6 | 1995.4 | 2082.6 |
| 22.5°  | 2253.4 | 2192.4 | 2182.1 | 2143.6 | 1859.4 | 1780.6 | 1793.7 | 1774.9 | 1577.9 | 1466.3 |
| 25°    | 2330.3 | 2290.0 | 2266.5 | 1927.8 | 1864.1 | 1850.0 | 1840.6 | 1662.4 | 1448.5 | 1458.8 |
| 27.5°  | 2439.1 | 2386.6 | 2105.2 | 1936.3 | 1948.5 | 1926.9 | 1872.5 | 1495.4 | 1488.8 | 1505.7 |
| 30°    | 2567.6 | 2435.4 | 2051.7 | 2035.7 | 2049.8 | 2021.7 | 1574.2 | 1559.2 | 1559.2 | 1576.1 |
| 32.5°  | 2725.3 | 2209.3 | 2177.4 | 2179.3 | 2169.9 | 1850.9 | 1656.7 | 1653.0 | 1664.2 | 1678.3 |
| 35°    | 2681.2 | 2356.6 | 2359.4 | 2375.3 | 2353.8 | 1810.6 | 1786.2 | 1772.1 | 1781.5 | 1787.1 |
| 37.5°  | 2594.9 | 2578.0 | 2578.0 | 2560.1 | 2009.5 | 1952.2 | 1926.0 | 1924.1 | 1923.2 | 1923.2 |
| 40°    | 2812.5 | 2796.6 | 2776.9 | 2745.9 | 2102.3 | 2117.3 | 2077.9 | 2073.3 | 2076.1 | 2086.4 |
| 42.5°  | 3060.2 | 3053.6 | 3051.7 | 2356.6 | 2295.6 | 2306.9 | 2264.6 | 2252.4 | 2252.4 | 2275.9 |
| 45°    | 3351.9 | 3343.5 | 3136.2 | 2518.9 | 2508.5 | 2521.7 | 2474.8 | 2445.7 | 2461.6 | 2478.5 |
| 47.5°  | 3686.8 | 3686.8 | 2776.9 | 2761.8 | 2761.8 | 2769.3 | 2722.4 | 2683.0 | 2699.0 | 2704.6 |
| 50°    | 4053.6 | 3480.4 | 3055.5 | 3041.4 | 3054.5 | 3050.8 | 3002.0 | 2636.1 | 2974.8 | 2977.6 |
| 52.5°  | 4155.9 | 3384.8 | 3361.3 | 3345.4 | 3361.3 | 3358.5 | 3307.8 | 2199.0 | 3217.8 | 3263.7 |
| 55°    | 3684.0 | 3686.8 | 3682.1 | 3658.7 | 3675.6 | 3669.0 | 3619.3 | 2400.7 | 2372.5 | 2114.5 |
| 57.5°  | 3983.3 | 3987.0 | 3985.2 | 3981.4 | 3996.4 | 2903.5 | 3748.7 | 2168.9 | 1324.6 | 1325.6 |
| 60°    | 4308.8 | 4290.0 | 4284.4 | 4276.0 | 3624.0 | 2058.2 | 1562.0 | 151.0  | 517.8  | 510.3  |
| 62.5°  | 4604.3 | 4597.8 | 4578.1 | 4573.4 | 3075.2 | 1621.1 | 1583.6 | 34.7   | 27.2   | 26.3   |
| 65°    | 5015.2 | 4957.1 | 4941.1 | 4891.4 | 3277.8 | 1726.2 | 1690.5 | 10.3   | 0.9    | 0.0    |
| 67.5°  | 5168.1 | 5049.9 | 4992.7 | 4966.4 | 3335.0 | 1780.6 | 1712.1 | 10.3   | 0.9    | 0.0    |
| 70°    | 4879.2 | 4732.8 | 4660.6 | 4631.5 | 3116.5 | 1664.2 | 1596.7 | 10.3   | 0.9    | 0.0    |
| 72.5°  | 4326.6 | 4218.8 | 4189.7 | 4096.8 | 2747.8 | 1460.7 | 1401.6 | 10.3   | 0.0    | 0.0    |
| 75°    | 3548.9 | 3509.5 | 3473.9 | 3375.4 | 2233.7 | 1160.5 | 1107.9 | 9.4    | 0.0    | 0.0    |
| 77.5°  | 2582.7 | 2524.5 | 2458.8 | 2351.9 | 1507.6 | 758.0  | 730.8  | 8.4    | 0.0    | 0.0    |
| 80°    | 1164.2 | 1116.4 | 1100.4 | 933.4  | 534.7  | 246.7  | 217.6  | 7.5    | 0.0    | 0.0    |
| 82.5°  | 226.1  | 203.6  | 193.3  | 185.7  | 120.1  | 66.6   | 58.2   | 5.6    | 0.0    | 0.0    |
| 85°    | 76.9   | 85.4   | 99.4   | 109.8  | 67.5   | 40.3   | 33.8   | 3.8    | 0.0    | 0.0    |
| 87.5°  | 30.0   | 40.3   | 48.8   | 50.7   | 25.3   | 16.9   | 9.4    | 1.9    | 0.0    | 0.0    |
| 90°    | 5.6    | 7.5    | 6.6    | 4.7    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 2.8    | 3.8    | 2.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 3.8    | 3.8    | 3.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 3.8    | 3.8    | 3.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 3.8    | 3.8    | 3.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 3.8    | 3.8    | 3.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 3.8    | 4.7    | 3.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 3.8    | 4.7    | 3.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 3.8    | 4.7    | 3.8    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 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  |
| 117.5° | 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  |
| 122.5° | 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  |
| 127.5° | 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  |
| 132.5° | 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  |
| 137.5° | 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  |
| 142.5° | 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  |
| 147.5° | 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  |
| 152.5° | 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  |
| 157.5° | 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  |
| 162.5° | 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  |
| 167.5° | 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  |
| 172.5° | 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  |
| 177.5° | 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  |

(END OF REPORT)