

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: P579407

Luminaire Tested: **CST-CA8-230-722-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-230-722-U-T5-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (8) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18016 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U2 - G3

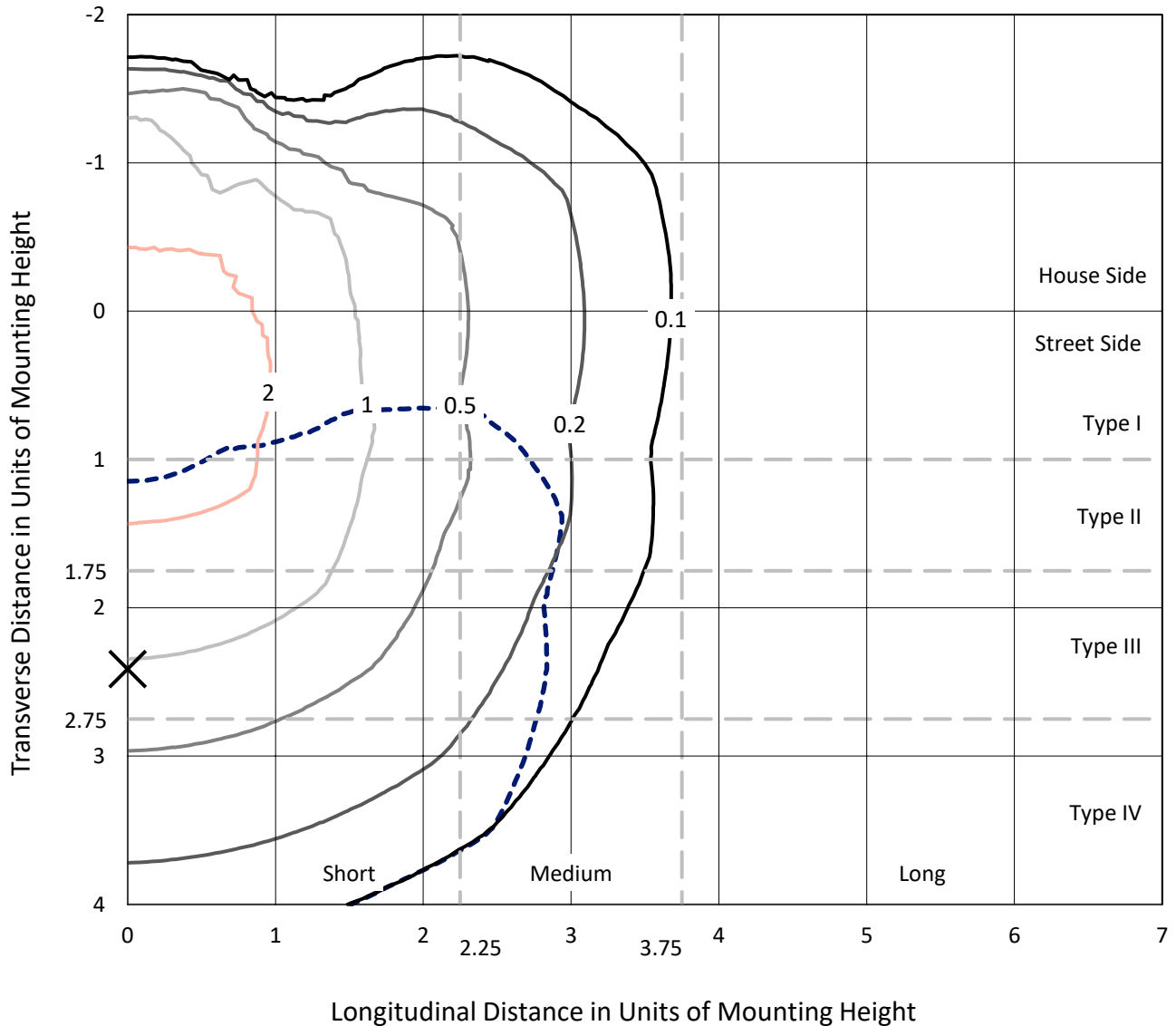
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

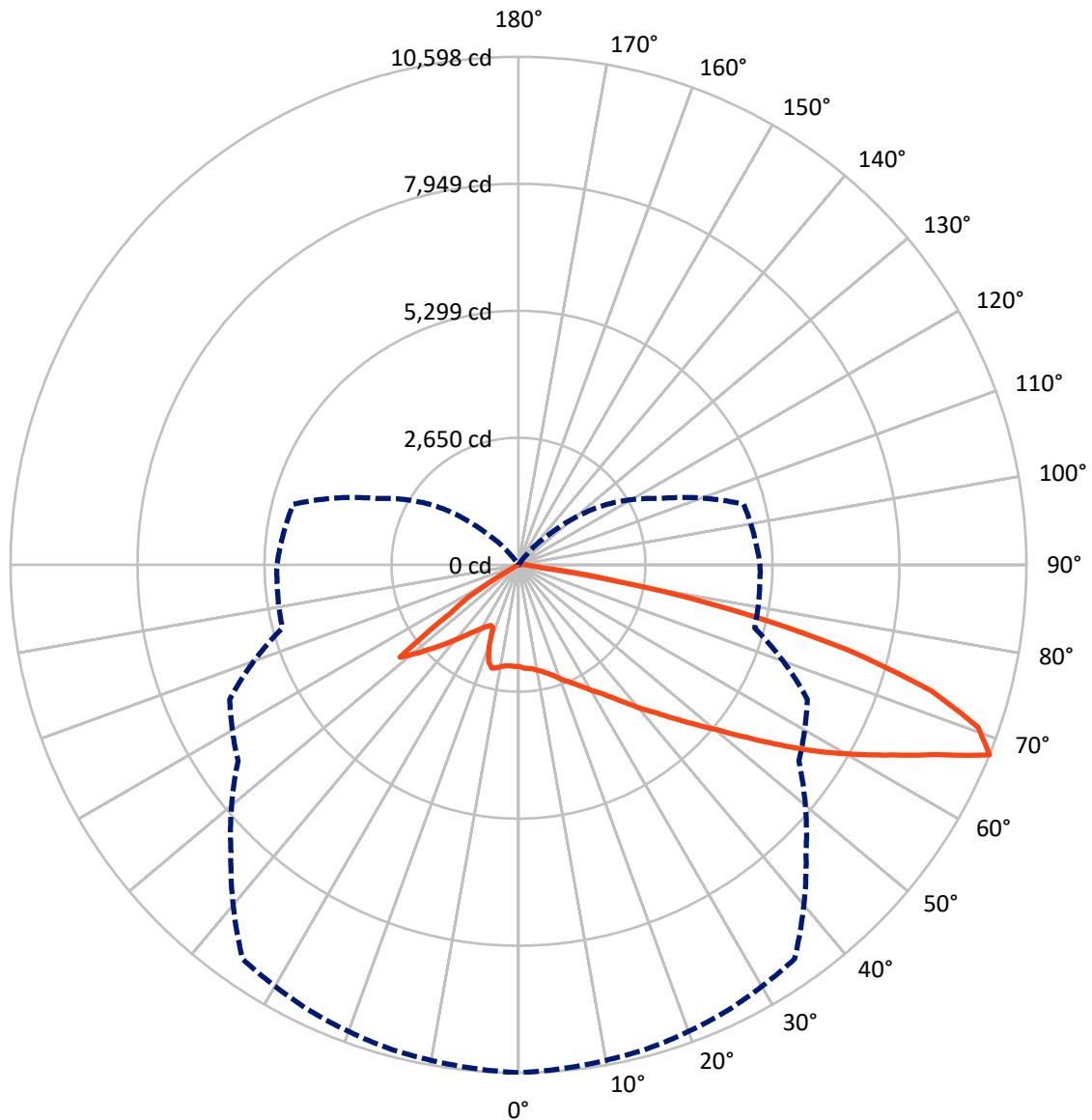
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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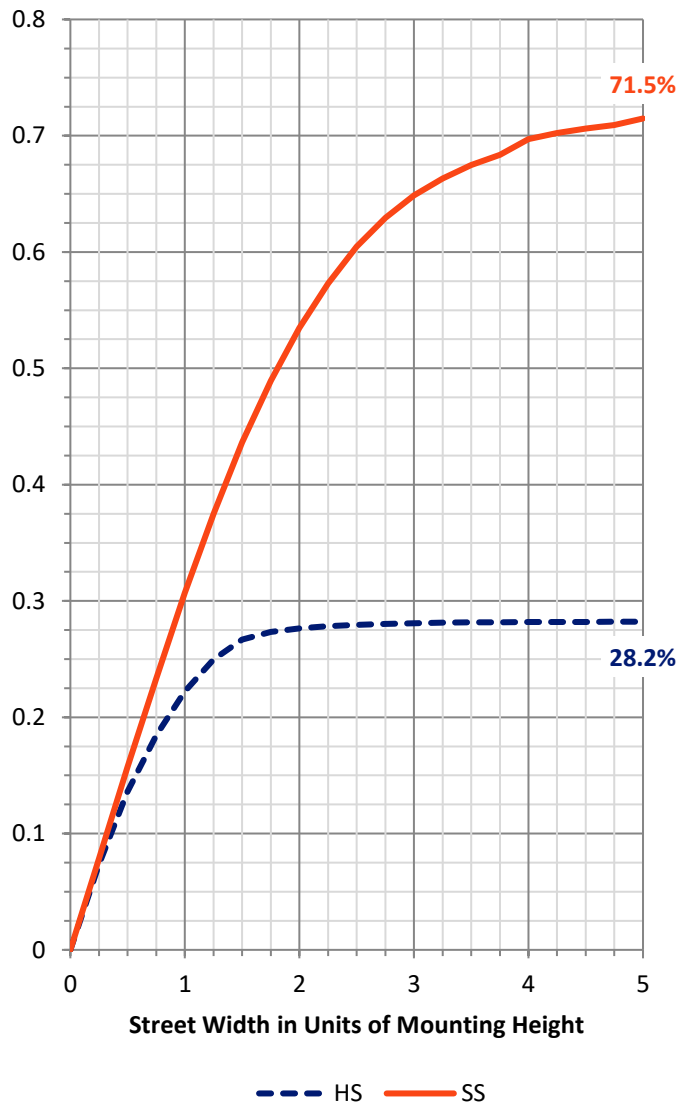
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5106.1   | 0.1    | 5106.1  |
|                    | % Fixture | 28.3     | 0.0    | 28.3    |
| <b>Street Side</b> | Lumens    | 12886.9  | 22.9   | 12909.8 |
|                    | % Fixture | 71.5     | 0.1    | 71.7    |
| <b>Total</b>       | Lumens    | 17993.0  | 23.0   | 18016.0 |
|                    | % Fixture | 99.9     | 0.1    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 204.6   | 1.1       |
| 10°-20°   | 629.9   | 3.5       |
| 20°-30°   | 1043.1  | 5.8       |
| 30°-40°   | 1641.9  | 9.1       |
| 40°-50°   | 2569.6  | 14.3      |
| 50°-60°   | 3710.2  | 20.6      |
| 60°-70°   | 4596.2  | 25.5      |
| 70°-80°   | 3347.3  | 18.6      |
| 80°-90°   | 250.1   | 1.4       |
| 90°-100°  | 19.6    | 0.1       |
| 100°-110° | 3.3     | 0.0       |
| 110°-120° | 0.1     | 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°    | 17993.0 | 99.9      |
| 0°-180°   | 18016.0 | 100.0     |

**Coefficient of Utilization**

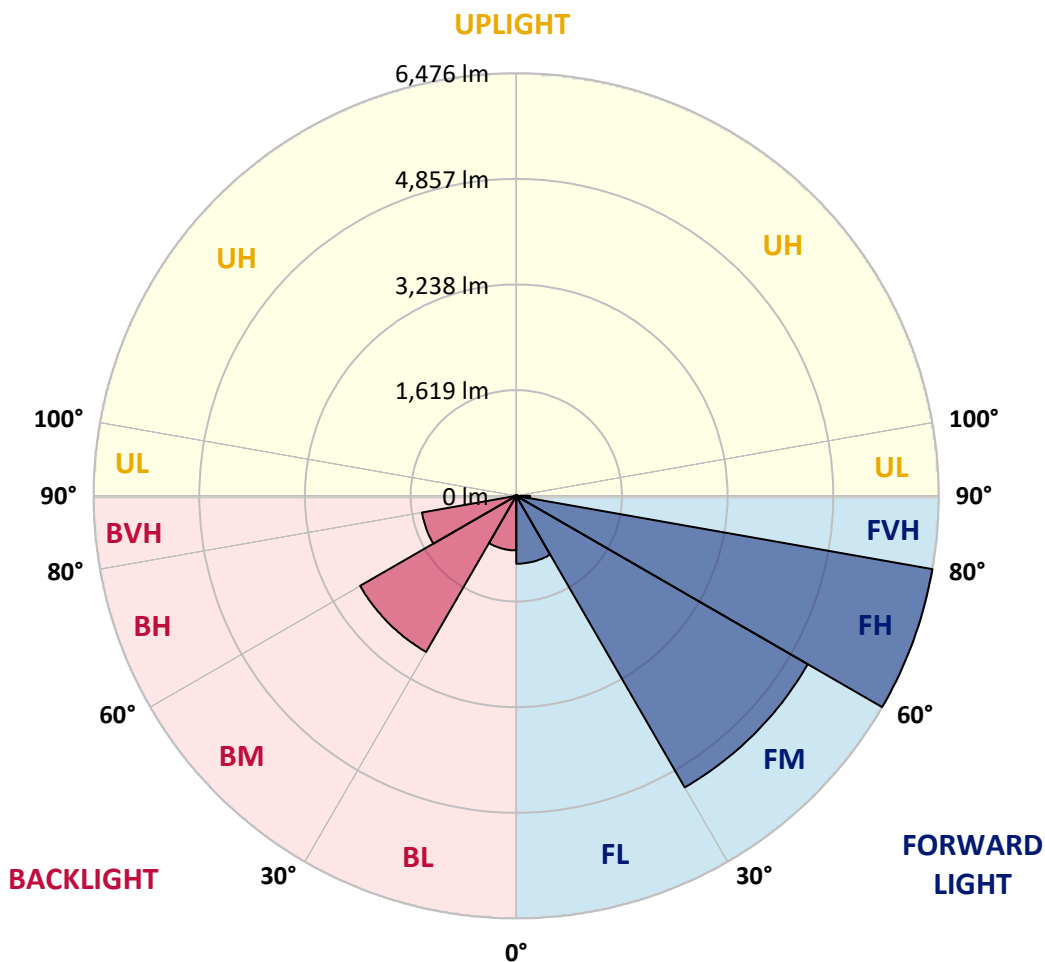


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|----------------|--------|-----------|-------------------------|-------|---------|
|                |        |           | B                       | U     | G       |
| FL (0°-30°)    | 1040.6 | 5.8       |                         |       |         |
| FM (30°-60°)   | 5159.3 | 28.6      |                         |       |         |
| FH (60°-80°)   | 6476.2 | 35.9      |                         |       | G3/7500 |
| FVH (80°-90°)  | 210.9  | 1.2       |                         |       | G2/225  |
| BL (0°-30°)    | 837.0  | 4.6       | B2/1000                 |       |         |
| BM (30°-60°)   | 2762.5 | 15.3      | B3/5000                 |       |         |
| BH (60°-80°)   | 1467.4 | 8.1       | B3/2500                 |       | G3/2500 |
| BVH (80°-90°)  | 39.1   | 0.2       |                         |       | G1/100  |
| UL (90°-100°)  | 19.6   | 0.1       |                         | U2/50 |         |
| UH (100°-180°) | 3.4    | 0.0       |                         | U1/10 |         |

**BUG Rating: B3-U2-G3**  
 Type IV Short





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CATALOG NUMBER: CST-CA8-230-722-U-T5-HSS-HM-EX180

**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 15°     | 25°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°     | 2121.8  | 2121.8  | 2121.8  | 2121.8  | 2121.8  | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 |
| 2.5°   | 2160.6  | 2148.9  | 2148.9  | 2161.5  | 2126.3  | 2137.2 | 2122.7 | 2135.4 | 2128.1 | 2131.8 | 2136.3 |
| 5°     | 2173.3  | 2159.7  | 2160.6  | 2176.0  | 2144.4  | 2153.4 | 2136.3 | 2142.6 | 2136.3 | 2139.0 | 2139.0 |
| 7.5°   | 2196.8  | 2185.0  | 2185.0  | 2194.1  | 2162.5  | 2165.2 | 2149.8 | 2149.8 | 2141.7 | 2148.0 | 2142.6 |
| 10°    | 2241.0  | 2228.4  | 2222.0  | 2226.6  | 2198.6  | 2195.0 | 2174.2 | 2174.2 | 2161.5 | 2171.5 | 2163.4 |
| 12.5°  | 2294.3  | 2276.2  | 2274.4  | 2275.3  | 2243.7  | 2237.4 | 2213.9 | 2214.8 | 2191.3 | 2204.9 | 2195.0 |
| 15°    | 2358.4  | 2335.8  | 2334.0  | 2337.6  | 2304.2  | 2292.5 | 2266.3 | 2266.3 | 2240.1 | 2247.3 | 2233.8 |
| 17.5°  | 2440.5  | 2414.4  | 2409.8  | 2416.2  | 2382.8  | 2371.9 | 2341.2 | 2335.8 | 2306.9 | 2301.5 | 2289.8 |
| 20°    | 2548.9  | 2519.1  | 2510.1  | 2523.6  | 2481.2  | 2471.2 | 2434.2 | 2422.5 | 2383.7 | 2319.6 | 2235.6 |
| 22.5°  | 2646.4  | 2622.9  | 2617.5  | 2626.5  | 2587.7  | 2577.8 | 2541.7 | 2517.3 | 2423.4 | 2294.3 | 2216.6 |
| 25°    | 2757.5  | 2748.4  | 2745.7  | 2740.3  | 2705.1  | 2687.9 | 2653.6 | 2619.3 | 2406.2 | 2229.3 | 2227.5 |
| 27.5°  | 2894.7  | 2890.2  | 2877.6  | 2873.0  | 2834.2  | 2823.4 | 2778.2 | 2557.0 | 2344.8 | 2332.2 | 2325.0 |
| 30°    | 3044.6  | 3035.6  | 3022.9  | 3023.8  | 2997.6  | 2977.8 | 2870.3 | 2501.9 | 2463.1 | 2463.1 | 2444.2 |
| 32.5°  | 3210.7  | 3200.8  | 3188.1  | 3190.9  | 3180.0  | 3162.9 | 2839.6 | 2647.3 | 2617.5 | 2625.6 | 2602.2 |
| 35°    | 3416.6  | 3400.3  | 3395.8  | 3406.7  | 3407.6  | 3296.5 | 2893.8 | 2845.0 | 2821.6 | 2816.2 | 2727.7 |
| 37.5°  | 3656.8  | 3643.2  | 3659.5  | 3684.7  | 3655.9  | 3330.8 | 3109.6 | 3094.2 | 3070.8 | 2939.9 | 2730.4 |
| 40°    | 3944.8  | 3920.4  | 3940.3  | 3956.5  | 3937.6  | 3534.9 | 3336.2 | 3341.6 | 3320.9 | 2932.6 | 2700.6 |
| 42.5°  | 4230.1  | 4206.6  | 4223.8  | 4264.4  | 4257.2  | 3787.7 | 3612.5 | 3624.3 | 3414.8 | 2949.8 | 2931.7 |
| 45°    | 4583.1  | 4575.0  | 4569.6  | 4603.0  | 4631.0  | 4090.1 | 3940.3 | 3939.4 | 3348.0 | 3222.5 | 3206.2 |
| 47.5°  | 4983.1  | 4972.3  | 4975.0  | 5017.4  | 5059.9  | 4451.3 | 4327.6 | 3964.6 | 3520.4 | 3533.1 | 3518.6 |
| 50°    | 5429.2  | 5417.4  | 5452.6  | 5514.0  | 5535.7  | 4856.7 | 4705.0 | 3896.0 | 3879.8 | 3893.3 | 3868.9 |
| 52.5°  | 5995.3  | 5969.1  | 6023.3  | 6089.2  | 6117.2  | 5336.2 | 4725.8 | 4301.4 | 4274.3 | 4277.0 | 4199.4 |
| 55°    | 6639.0  | 6618.3  | 6667.0  | 6741.1  | 6782.6  | 5871.6 | 5157.4 | 4696.0 | 4679.7 | 4219.3 | 3799.4 |
| 57.5°  | 7338.8  | 7315.3  | 7380.3  | 7402.0  | 7412.8  | 6425.1 | 5591.7 | 5124.0 | 4371.9 | 3852.7 | 3829.2 |
| 60°    | 8025.0  | 7999.7  | 8081.9  | 8085.5  | 8117.1  | 6977.6 | 6004.3 | 5536.6 | 4212.0 | 4143.4 | 4123.6 |
| 62.5°  | 8745.5  | 8713.9  | 8786.1  | 8783.4  | 8721.1  | 7483.3 | 6413.3 | 5933.0 | 4497.4 | 4443.2 | 4412.5 |
| 65°    | 9545.5  | 9522.0  | 9572.6  | 9491.3  | 9367.6  | 8006.0 | 6837.7 | 6364.6 | 4829.6 | 4819.7 | 4812.5 |
| 67.5°  | 10598.3 | 10552.2 | 10450.2 | 10276.8 | 10040.3 | 8485.5 | 7141.1 | 6649.0 | 5099.6 | 5053.5 | 5039.1 |
| 70°    | 10174.8 | 10120.6 | 10043.0 | 9852.5  | 9611.4  | 8034.9 | 6653.5 | 6219.2 | 4768.2 | 4770.0 | 4735.7 |
| 72.5°  | 9009.2  | 8915.3  | 8842.1  | 8574.9  | 8442.1  | 7017.4 | 5797.5 | 5397.6 | 4124.5 | 4201.2 | 4185.0 |
| 75°    | 7106.7  | 7011.0  | 6891.0  | 6786.2  | 6771.8  | 5691.9 | 4674.3 | 4386.3 | 3288.4 | 3344.4 | 3385.0 |
| 77.5°  | 4606.6  | 4571.4  | 4723.1  | 4623.8  | 4713.2  | 3919.5 | 3338.9 | 3091.5 | 2266.3 | 2408.0 | 2389.1 |
| 80°    | 2108.3  | 2067.6  | 2311.4  | 2242.8  | 2276.2  | 1925.0 | 1631.5 | 1567.4 | 1025.7 | 1032.9 | 1054.6 |
| 82.5°  | 476.7   | 460.5   | 477.6   | 438.8   | 428.0   | 362.1  | 318.7  | 288.9  | 181.5  | 192.3  | 202.3  |
| 85°    | 260.9   | 260.9   | 257.3   | 239.3   | 205.0   | 168.8  | 133.6  | 102.9  | 56.0   | 61.4   | 60.5   |
| 87.5°  | 183.3   | 178.8   | 177.9   | 158.9   | 136.3   | 115.6  | 92.1   | 65.9   | 31.6   | 21.7   | 19.9   |
| 90°    | 125.5   | 123.7   | 117.4   | 105.6   | 91.2    | 74.9   | 56.0   | 32.5   | 13.5   | 6.3    | 4.5    |
| 92.5°  | 91.2    | 89.4    | 84.9    | 74.9    | 62.3    | 50.6   | 37.0   | 21.7   | 10.8   | 4.5    | 0.9    |
| 95°    | 60.5    | 59.6    | 56.9    | 48.8    | 40.6    | 32.5   | 23.5   | 13.5   | 9.0    | 3.6    | 0.9    |
| 97.5°  | 41.5    | 40.6    | 37.9    | 32.5    | 26.2    | 20.8   | 14.4   | 9.9    | 7.2    | 2.7    | 0.9    |
| 100°   | 28.0    | 27.1    | 25.3    | 20.8    | 16.3    | 12.6   | 9.0    | 7.2    | 5.4    | 2.7    | 0.9    |
| 102.5° | 18.1    | 17.2    | 15.3    | 12.6    | 9.0     | 7.2    | 6.3    | 5.4    | 3.6    | 1.8    | 0.9    |
| 105°   | 10.8    | 9.9     | 8.1     | 6.3     | 5.4     | 4.5    | 4.5    | 3.6    | 2.7    | 0.9    | 0.9    |
| 107.5° | 5.4     | 4.5     | 3.6     | 3.6     | 3.6     | 2.7    | 2.7    | 2.7    | 1.8    | 0.9    | 0.0    |
| 110°   | 0.9     | 0.9     | 1.8     | 1.8     | 1.8     | 1.8    | 1.8    | 1.8    | 1.8    | 0.9    | 0.0    |



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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°     | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 | 2121.8 |
| 2.5°   | 2131.8 | 2117.3 | 2125.4 | 2112.8 | 2110.1 | 2096.5 | 2118.2 | 2120.9 | 2119.1 | 2122.7 |
| 5°     | 2134.5 | 2119.1 | 2128.1 | 2112.8 | 2112.8 | 2098.3 | 2119.1 | 2119.1 | 2113.7 | 2115.5 |
| 7.5°   | 2141.7 | 2126.3 | 2132.7 | 2115.5 | 2116.4 | 2099.2 | 2124.5 | 2121.8 | 2117.3 | 2123.6 |
| 10°    | 2162.5 | 2145.3 | 2144.4 | 2128.1 | 2131.8 | 2113.7 | 2145.3 | 2145.3 | 2140.8 | 2152.5 |
| 12.5°  | 2195.9 | 2170.6 | 2166.1 | 2146.2 | 2153.4 | 2138.1 | 2176.9 | 2178.7 | 2179.6 | 2198.6 |
| 15°    | 2231.1 | 2200.4 | 2204.9 | 2181.4 | 2178.7 | 2170.6 | 2205.8 | 2204.0 | 2203.1 | 2229.3 |
| 17.5°  | 2280.7 | 2136.3 | 2112.8 | 2096.5 | 2092.9 | 2073.1 | 2105.6 | 2167.9 | 2135.4 | 2117.3 |
| 20°    | 2202.2 | 2126.3 | 2033.3 | 2001.7 | 1995.4 | 1823.0 | 1686.6 | 1748.0 | 1831.1 | 1838.3 |
| 22.5°  | 2130.9 | 2103.8 | 2096.5 | 2046.9 | 1771.5 | 1713.7 | 1719.1 | 1696.6 | 1499.7 | 1413.9 |
| 25°    | 2219.3 | 2195.9 | 2165.2 | 1861.8 | 1796.8 | 1776.0 | 1769.7 | 1538.5 | 1383.2 | 1393.2 |
| 27.5°  | 2317.8 | 2291.6 | 2024.3 | 1866.3 | 1880.7 | 1851.9 | 1709.2 | 1435.6 | 1426.6 | 1443.7 |
| 30°    | 2440.5 | 2231.1 | 1975.6 | 1966.5 | 1980.1 | 1943.0 | 1518.7 | 1498.8 | 1496.1 | 1514.2 |
| 32.5°  | 2580.5 | 2151.6 | 2105.6 | 2105.6 | 2099.2 | 1699.3 | 1599.9 | 1586.4 | 1593.6 | 1612.6 |
| 35°    | 2528.1 | 2276.2 | 2270.8 | 2293.4 | 2141.7 | 1743.5 | 1730.0 | 1706.5 | 1711.9 | 1718.2 |
| 37.5°  | 2470.3 | 2481.2 | 2483.9 | 2472.1 | 1562.0 | 1869.9 | 1859.1 | 1854.6 | 1849.1 | 1851.0 |
| 40°    | 2685.2 | 2692.5 | 2689.7 | 2582.3 | 1685.7 | 1894.3 | 2005.3 | 1997.2 | 1996.3 | 2007.2 |
| 42.5°  | 2936.2 | 2956.1 | 2940.8 | 2278.0 | 1851.0 | 1592.7 | 2174.2 | 2169.7 | 2167.9 | 2190.4 |
| 45°    | 3218.8 | 3237.8 | 2915.5 | 2439.6 | 2027.0 | 1648.7 | 2185.9 | 2353.9 | 2367.4 | 2387.3 |
| 47.5°  | 3524.9 | 3521.3 | 2690.6 | 2687.9 | 2233.8 | 1804.0 | 1817.5 | 2574.2 | 2596.7 | 2604.0 |
| 50°    | 3877.1 | 3298.3 | 2946.2 | 2846.9 | 2467.6 | 1978.3 | 1926.8 | 2362.0 | 2860.4 | 2867.6 |
| 52.5°  | 3802.1 | 3263.1 | 3239.6 | 2497.4 | 2677.1 | 2170.6 | 2120.0 | 2106.5 | 2965.1 | 3139.4 |
| 55°    | 3543.9 | 3571.0 | 3537.6 | 2740.3 | 1962.9 | 2342.1 | 2310.5 | 2297.0 | 2205.8 | 1746.2 |
| 57.5°  | 3831.0 | 3839.1 | 3810.2 | 2963.3 | 1996.3 | 1460.0 | 2274.4 | 1951.2 | 1267.7 | 1261.4 |
| 60°    | 4129.0 | 4142.5 | 2837.8 | 2176.9 | 1279.4 | 488.5  | 116.5  | 122.8  | 350.3  | 307.9  |
| 62.5°  | 4413.4 | 4426.9 | 3004.0 | 1989.1 | 808.1  | 36.1   | 23.5   | 16.3   | 18.1   | 18.1   |
| 65°    | 4784.5 | 4789.9 | 3215.2 | 2105.6 | 839.7  | 9.0    | 2.7    | 0.0    | 0.0    | 0.0    |
| 67.5°  | 4976.8 | 4865.7 | 3268.5 | 2158.8 | 862.3  | 5.4    | 1.8    | 0.0    | 0.0    | 0.0    |
| 70°    | 4686.1 | 4566.9 | 3042.8 | 2023.4 | 803.6  | 4.5    | 0.9    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 4129.0 | 4071.2 | 2731.3 | 1794.1 | 711.5  | 2.7    | 0.9    | 0.0    | 0.0    | 0.0    |
| 75°    | 3422.0 | 3345.3 | 2264.5 | 1495.2 | 588.7  | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 2434.2 | 2443.3 | 1578.3 | 1089.8 | 400.9  | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 1065.4 | 1089.8 | 691.6  | 500.2  | 141.8  | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 203.2  | 186.9  | 90.3   | 71.3   | 18.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 66.8   | 73.1   | 33.4   | 27.1   | 8.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 23.5   | 29.8   | 9.9    | 8.1    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°    | 3.6    | 3.6    | 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    |
| 95°    | 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    |
| 100°   | 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    |
| 105°   | 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    |
| 110°   | 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° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 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)