

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: P510575

Luminaire Tested: **CST-CA10-760-722-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510575  
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: STREETWORKS  
Catalog Number: CST-CA10-760-722-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 90216 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

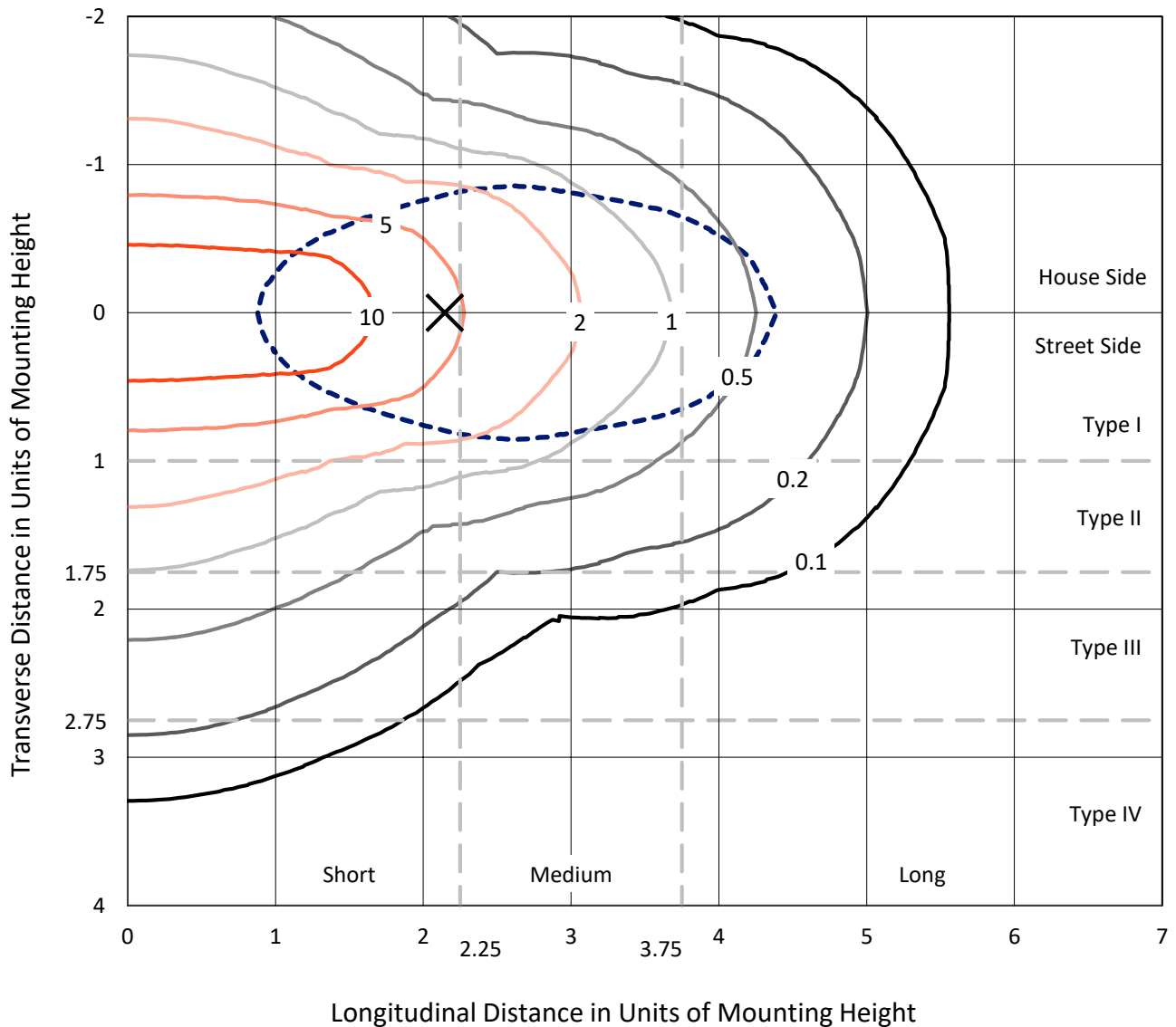
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

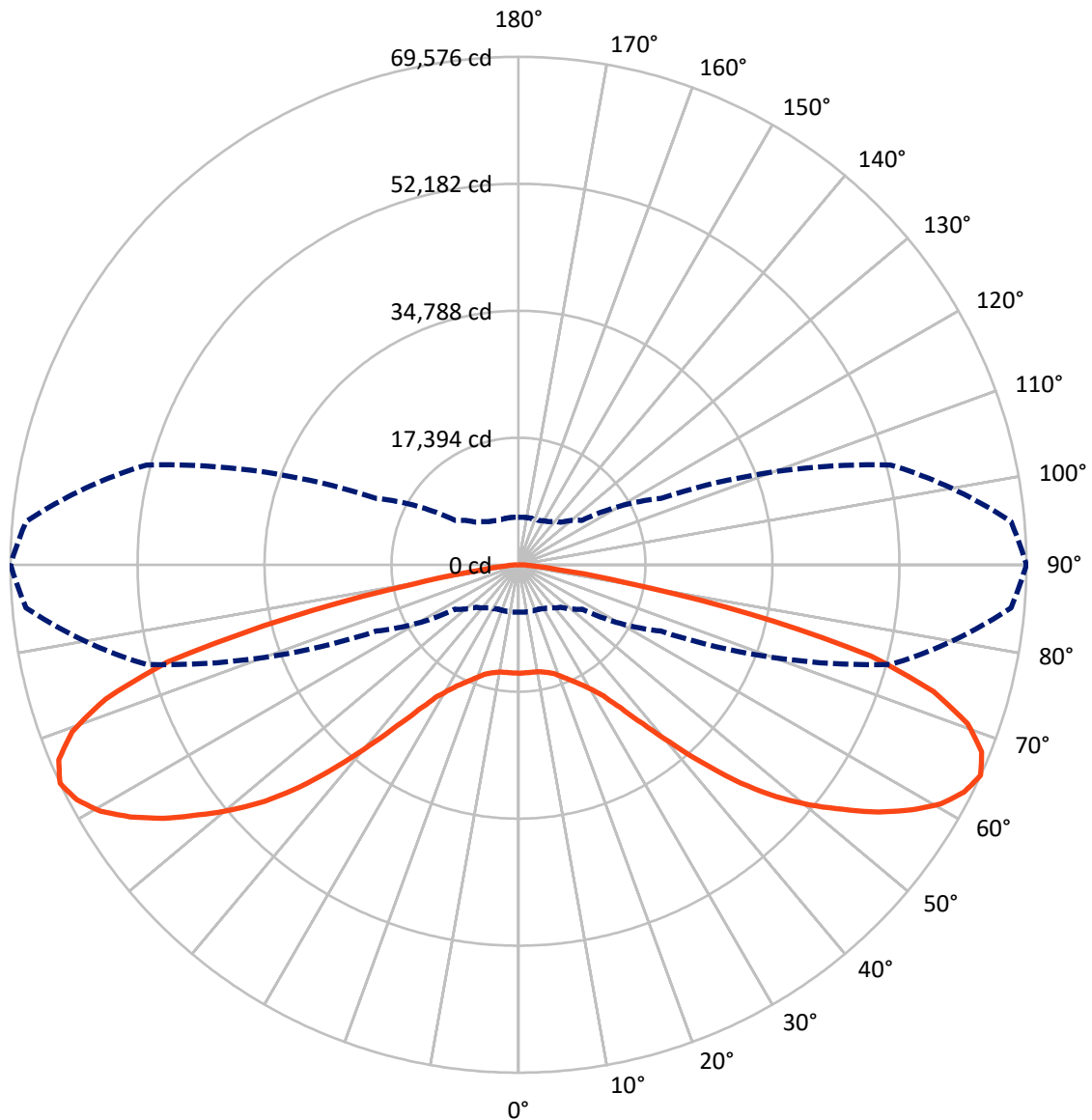
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.8 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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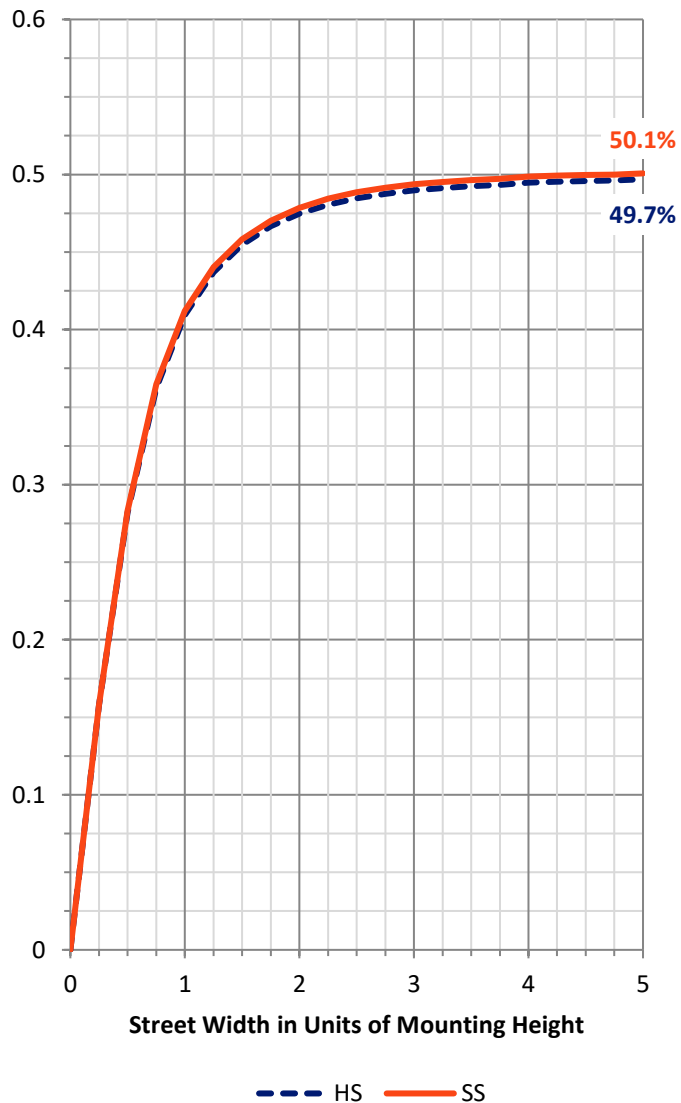
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 45108.0  | 0.0    | 45108.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 45108.0  | 0.0    | 45108.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 90216.0  | 0.0    | 90216.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1410.5  | 1.6       |
| 10°-20°   | 4162.2  | 4.6       |
| 20°-30°   | 6856.2  | 7.6       |
| 30°-40°   | 10045.1 | 11.1      |
| 40°-50°   | 14852.8 | 16.5      |
| 50°-60°   | 19483.1 | 21.6      |
| 60°-70°   | 20326.4 | 22.5      |
| 70°-80°   | 11686.5 | 13.0      |
| 80°-90°   | 1393.1  | 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°    | 90216.0 | 100.0     |
| 0°-180°   | 90216.0 | 100.0     |

**Coefficient of Utilization**

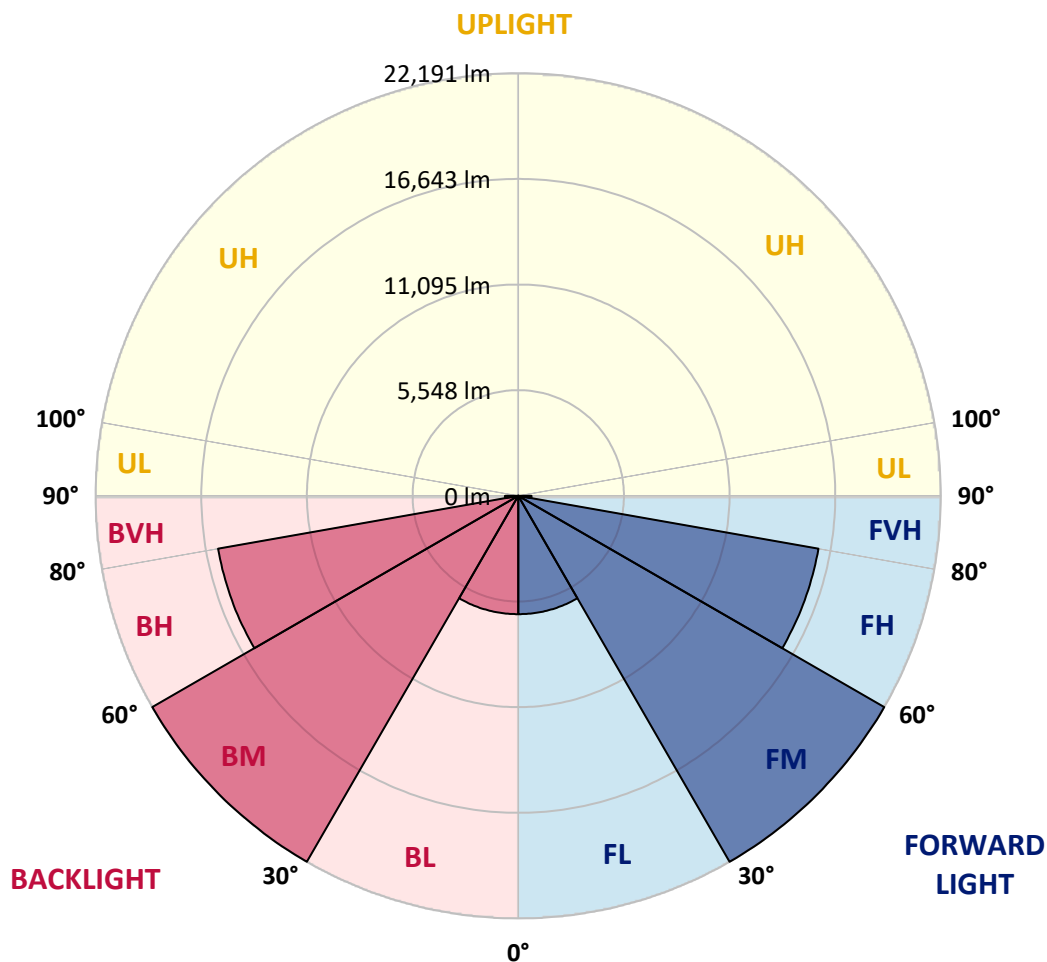


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 6214.4  | 6.9       |                         |      |        |
| FM (30°-60°)   | 22190.5 | 24.6      |                         |      |        |
| FH (60°-80°)   | 16006.5 | 17.7      |                         |      | G5     |
| FVH (80°-90°)  | 696.6   | 0.8       |                         |      | G4/750 |
| BL (0°-30°)    | 6214.4  | 6.9       | B5                      |      |        |
| BM (30°-60°)   | 22190.5 | 24.6      | B5                      |      |        |
| BH (60°-80°)   | 16006.5 | 17.7      | B5                      |      | G5     |
| BVH (80°-90°)  | 696.6   | 0.8       |                         |      | G4/750 |
| 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°     | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 |
| 2.5°   | 14859.3 | 14848.7 | 14845.2 | 14839.9 | 14848.7 | 14855.8 | 14873.4 | 14889.3 | 14885.7 | 14882.2 | 14885.7 |
| 5°     | 14776.4 | 14781.7 | 14783.5 | 14785.2 | 14792.3 | 14797.6 | 14822.3 | 14846.9 | 14843.4 | 14839.9 | 14857.5 |
| 7.5°   | 14660.0 | 14660.0 | 14656.5 | 14653.0 | 14667.1 | 14679.4 | 14704.1 | 14728.8 | 14748.2 | 14765.8 | 14794.0 |
| 10°    | 14490.8 | 14483.7 | 14481.9 | 14480.2 | 14496.1 | 14510.2 | 14556.0 | 14601.9 | 14640.6 | 14677.7 | 14725.3 |
| 12.5°  | 14284.5 | 14282.7 | 14286.2 | 14289.7 | 14323.2 | 14356.8 | 14434.3 | 14511.9 | 14589.5 | 14667.1 | 14735.9 |
| 15°    | 14039.4 | 14018.2 | 14035.8 | 14051.7 | 14106.4 | 14159.3 | 14309.1 | 14459.0 | 14577.2 | 14693.5 | 14827.6 |
| 17.5°  | 13665.5 | 13644.4 | 13670.8 | 13695.5 | 13804.8 | 13914.2 | 14125.8 | 14335.6 | 14557.8 | 14779.9 | 14972.1 |
| 20°    | 13099.5 | 13099.5 | 13166.5 | 13233.5 | 13418.7 | 13603.8 | 13894.8 | 14183.9 | 14483.7 | 14783.5 | 15062.1 |
| 22.5°  | 12496.5 | 12478.8 | 12621.7 | 12764.5 | 12986.7 | 13207.1 | 13573.8 | 13940.6 | 14337.4 | 14732.3 | 15115.0 |
| 25°    | 11815.8 | 11845.8 | 12025.7 | 12203.8 | 12515.9 | 12826.2 | 13277.6 | 13727.3 | 14226.3 | 14725.3 | 15256.0 |
| 27.5°  | 11241.0 | 11246.3 | 11463.2 | 11680.1 | 12071.5 | 12461.2 | 13009.6 | 13558.0 | 14166.3 | 14774.7 | 15442.9 |
| 30°    | 10646.8 | 10743.8 | 10973.0 | 11200.5 | 11637.8 | 12075.0 | 12738.0 | 13399.3 | 14120.5 | 14841.7 | 15656.3 |
| 32.5°  | 10190.1 | 10213.0 | 10472.2 | 10729.7 | 11186.3 | 11643.0 | 12413.6 | 13184.2 | 14049.9 | 14915.7 | 15906.7 |
| 35°    | 9759.8  | 9796.9  | 10038.4 | 10280.0 | 10756.1 | 11230.4 | 12075.0 | 12917.9 | 13953.0 | 14986.2 | 16178.2 |
| 37.5°  | 9377.2  | 9423.1  | 9652.3  | 9881.5  | 10340.0 | 10798.4 | 11694.2 | 12589.9 | 13803.1 | 15016.2 | 16476.2 |
| 40°    | 9096.8  | 9135.6  | 9329.6  | 9523.6  | 9937.9  | 10350.5 | 11288.6 | 12224.9 | 13593.2 | 14961.6 | 16710.8 |
| 42.5°  | 8894.1  | 8911.7  | 9068.6  | 9225.6  | 9595.9  | 9966.1  | 10895.4 | 11822.9 | 13319.9 | 14817.0 | 16892.4 |
| 45°    | 8619.0  | 8657.8  | 8813.0  | 8966.4  | 9299.6  | 9631.1  | 10481.0 | 11330.9 | 12914.4 | 14496.1 | 16894.1 |
| 47.5°  | 8414.4  | 8439.1  | 8585.5  | 8730.1  | 9040.4  | 9350.8  | 10114.3 | 10877.8 | 12455.9 | 14032.3 | 16703.7 |
| 50°    | 8264.6  | 8252.2  | 8388.0  | 8522.0  | 8784.7  | 9045.7  | 9726.3  | 10405.2 | 11888.1 | 13371.1 | 16227.6 |
| 52.5°  | 8051.2  | 8065.3  | 8174.6  | 8284.0  | 8511.4  | 8737.1  | 9347.2  | 9955.6  | 11258.6 | 12560.0 | 15455.3 |
| 55°    | 7765.6  | 7830.8  | 7922.5  | 8012.4  | 8211.7  | 8410.9  | 8959.3  | 9507.7  | 10629.1 | 11748.8 | 14460.8 |
| 57.5°  | 7485.2  | 7532.8  | 7610.4  | 7688.0  | 7844.9  | 8000.1  | 8516.7  | 9033.4  | 9966.1  | 10898.9 | 13205.3 |
| 60°    | 7256.0  | 7268.3  | 7317.7  | 7365.3  | 7485.2  | 7605.1  | 8031.8  | 8458.5  | 9273.2  | 10086.1 | 11953.4 |
| 62.5°  | 6959.7  | 6963.3  | 6996.8  | 7030.3  | 7104.3  | 7176.6  | 7511.6  | 7844.9  | 8539.6  | 9234.4  | 10708.5 |
| 65°    | 6496.0  | 6524.2  | 6555.9  | 6585.9  | 6635.3  | 6682.9  | 6938.6  | 7194.2  | 7714.4  | 8234.6  | 9423.1  |
| 67.5°  | 6026.9  | 6002.3  | 6039.3  | 6076.3  | 6083.4  | 6090.4  | 6284.4  | 6478.3  | 6905.1  | 7331.8  | 8287.5  |
| 70°    | 5263.4  | 5282.8  | 5279.3  | 5274.0  | 5244.0  | 5212.3  | 5348.1  | 5483.8  | 5709.6  | 5933.5  | 6624.7  |
| 72.5°  | 4036.2  | 4009.7  | 3942.7  | 3874.0  | 3842.2  | 3810.5  | 3969.2  | 4126.1  | 4291.9  | 4457.6  | 4956.6  |
| 75°    | 2466.9  | 2542.7  | 2682.0  | 2819.5  | 2872.4  | 2925.3  | 2916.5  | 2905.9  | 2891.8  | 2877.7  | 3500.1  |
| 77.5°  | 1671.6  | 1712.2  | 1743.9  | 1773.9  | 1851.5  | 1927.3  | 2015.4  | 2103.6  | 2101.8  | 2100.1  | 2491.5  |
| 80°    | 1063.3  | 1031.5  | 1045.6  | 1059.7  | 1103.8  | 1147.9  | 1281.9  | 1414.2  | 1451.2  | 1486.5  | 1756.2  |
| 82.5°  | 666.5   | 671.8   | 689.4   | 705.3   | 655.9   | 606.6   | 710.6   | 812.9   | 901.0   | 987.4   | 1112.6  |
| 85°    | 432.0   | 490.2   | 481.4   | 472.6   | 414.4   | 356.2   | 447.9   | 539.6   | 581.9   | 622.4   | 670.1   |
| 87.5°  | 139.3   | 162.2   | 167.5   | 171.0   | 171.0   | 169.3   | 188.7   | 208.1   | 215.1   | 220.4   | 238.0   |
| 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°     | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 | 14862.8 |
| 2.5°   | 14887.5 | 14869.9 | 14852.2 | 14846.9 | 14841.7 | 14838.1 | 14834.6 | 14831.1 |
| 5°     | 14873.4 | 14869.9 | 14866.3 | 14852.2 | 14838.1 | 14836.4 | 14834.6 | 14839.9 |
| 7.5°   | 14822.3 | 14822.3 | 14822.3 | 14838.1 | 14854.0 | 14846.9 | 14838.1 | 14848.7 |
| 10°    | 14771.1 | 14813.4 | 14855.8 | 14868.1 | 14880.5 | 14889.3 | 14898.1 | 14906.9 |
| 12.5°  | 14804.6 | 14876.9 | 14947.5 | 14988.0 | 15028.6 | 15049.7 | 15069.1 | 15074.4 |
| 15°    | 14961.6 | 15053.3 | 15144.9 | 15199.6 | 15252.5 | 15287.8 | 15323.0 | 15331.9 |
| 17.5°  | 15164.3 | 15305.4 | 15444.7 | 15524.1 | 15603.4 | 15644.0 | 15682.8 | 15670.4 |
| 20°    | 15338.9 | 15532.9 | 15726.8 | 15896.1 | 16065.4 | 16158.8 | 16250.5 | 16261.1 |
| 22.5°  | 15495.8 | 15822.1 | 16148.3 | 16366.9 | 16583.8 | 16749.5 | 16915.3 | 16932.9 |
| 25°    | 15785.0 | 16211.7 | 16638.5 | 16987.6 | 17336.7 | 17488.4 | 17638.2 | 17726.4 |
| 27.5°  | 16109.5 | 16680.8 | 17252.1 | 17719.4 | 18186.6 | 18417.6 | 18646.9 | 18659.2 |
| 30°    | 16469.2 | 17193.9 | 17916.8 | 18544.6 | 19170.5 | 19452.7 | 19733.0 | 19881.2 |
| 32.5°  | 16895.9 | 17816.3 | 18735.0 | 19560.2 | 20385.5 | 20813.9 | 21242.4 | 21392.3 |
| 35°    | 17368.5 | 18562.2 | 19754.2 | 20891.5 | 22027.1 | 22847.0 | 23667.0 | 24061.9 |
| 37.5°  | 17936.2 | 19456.2 | 20976.2 | 22684.8 | 24393.4 | 25791.7 | 27188.3 | 27586.8 |
| 40°    | 18459.9 | 20415.4 | 22369.2 | 24742.6 | 27116.0 | 29334.2 | 31550.6 | 31982.7 |
| 42.5°  | 18967.8 | 21334.1 | 23700.5 | 26937.9 | 30175.3 | 33144.7 | 36114.1 | 37237.3 |
| 45°    | 19290.5 | 22152.3 | 25012.3 | 29281.3 | 33550.2 | 37627.0 | 41701.9 | 42645.3 |
| 47.5°  | 19373.3 | 22735.9 | 26098.5 | 31386.7 | 36674.8 | 41472.7 | 46268.9 | 47480.3 |
| 50°    | 19084.1 | 23039.2 | 26994.3 | 33973.4 | 40950.8 | 45836.9 | 50721.2 | 51715.7 |
| 52.5°  | 18350.6 | 22942.2 | 27533.9 | 35978.3 | 44422.7 | 49594.5 | 54766.2 | 55669.0 |
| 55°    | 17172.7 | 22353.3 | 27533.9 | 37628.7 | 47721.8 | 53085.8 | 58448.0 | 59819.8 |
| 57.5°  | 15511.7 | 21228.3 | 26944.9 | 38730.8 | 50516.7 | 56342.6 | 62168.5 | 63401.1 |
| 60°    | 13820.7 | 19890.0 | 25957.5 | 39339.1 | 52720.8 | 58892.3 | 65063.8 | 66502.7 |
| 62.5°  | 12180.8 | 18072.0 | 23961.4 | 38700.8 | 53440.2 | 59955.6 | 66469.2 | 68539.3 |
| 65°    | 10611.5 | 16053.0 | 21494.6 | 37143.8 | 52791.3 | 60257.1 | 67721.1 | 69576.1 |
| 67.5°  | 9243.2  | 14365.6 | 19487.9 | 34534.1 | 49580.3 | 57843.1 | 66104.2 | 68415.9 |
| 70°    | 7315.9  | 12029.2 | 16742.5 | 29907.3 | 43072.0 | 52749.0 | 62426.0 | 65279.0 |
| 72.5°  | 5455.6  | 9453.0  | 13448.7 | 23525.9 | 33603.1 | 44731.3 | 55857.7 | 59447.7 |
| 75°    | 4120.8  | 7550.4  | 10980.0 | 18595.7 | 26211.4 | 35632.7 | 45054.0 | 49858.9 |
| 77.5°  | 2883.0  | 5455.6  | 8026.5  | 13707.9 | 19389.2 | 24605.0 | 29820.9 | 32381.2 |
| 80°    | 2024.3  | 3450.8  | 4875.5  | 7608.6  | 10340.0 | 12653.4 | 14965.1 | 14781.7 |
| 82.5°  | 1236.1  | 1835.6  | 2433.3  | 3300.9  | 4168.4  | 4727.4  | 5286.4  | 5261.7  |
| 85°    | 717.7   | 872.8   | 1026.2  | 1271.3  | 1516.4  | 1793.3  | 2070.1  | 1840.9  |
| 87.5°  | 253.9   | 253.9   | 253.9   | 290.9   | 328.0   | 451.4   | 574.8   | 606.6   |
| 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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 CATALOG NUMBER: CST-CA10-760-722-U-T1

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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)