

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: P579590

Luminaire Tested: **CST-CA10-760-760-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-760-U-T5N-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71924 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U3 - G5

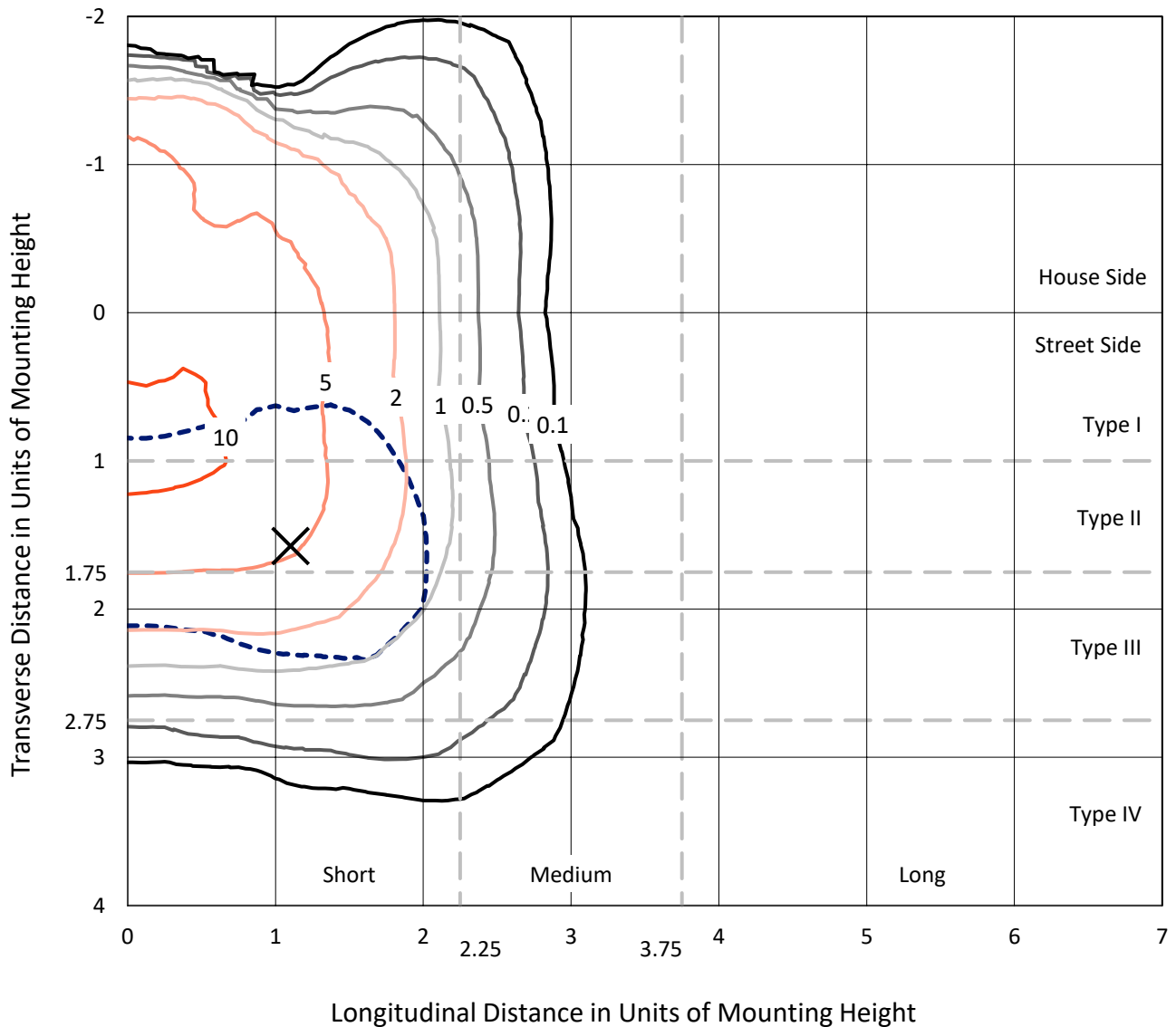
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

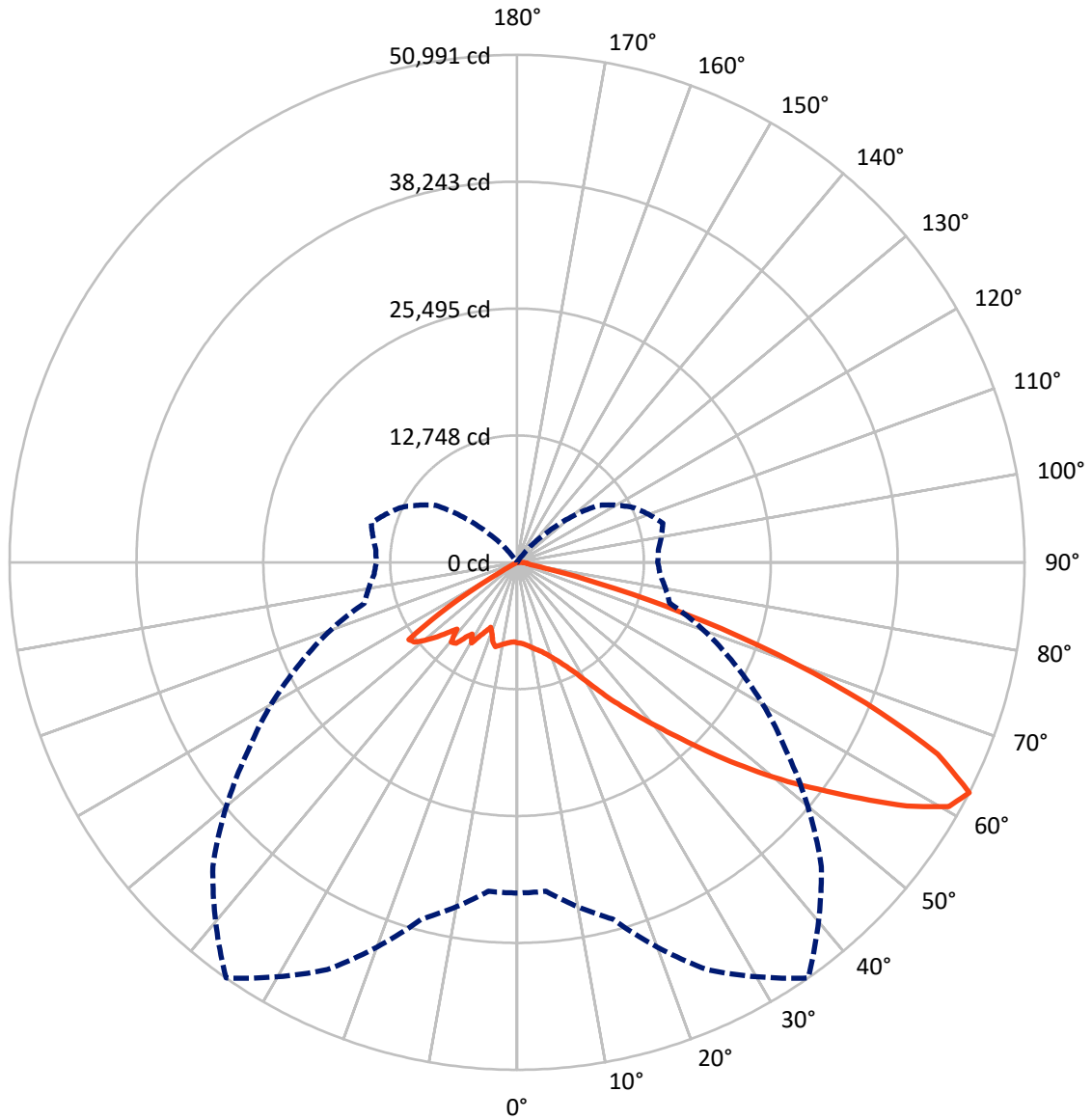
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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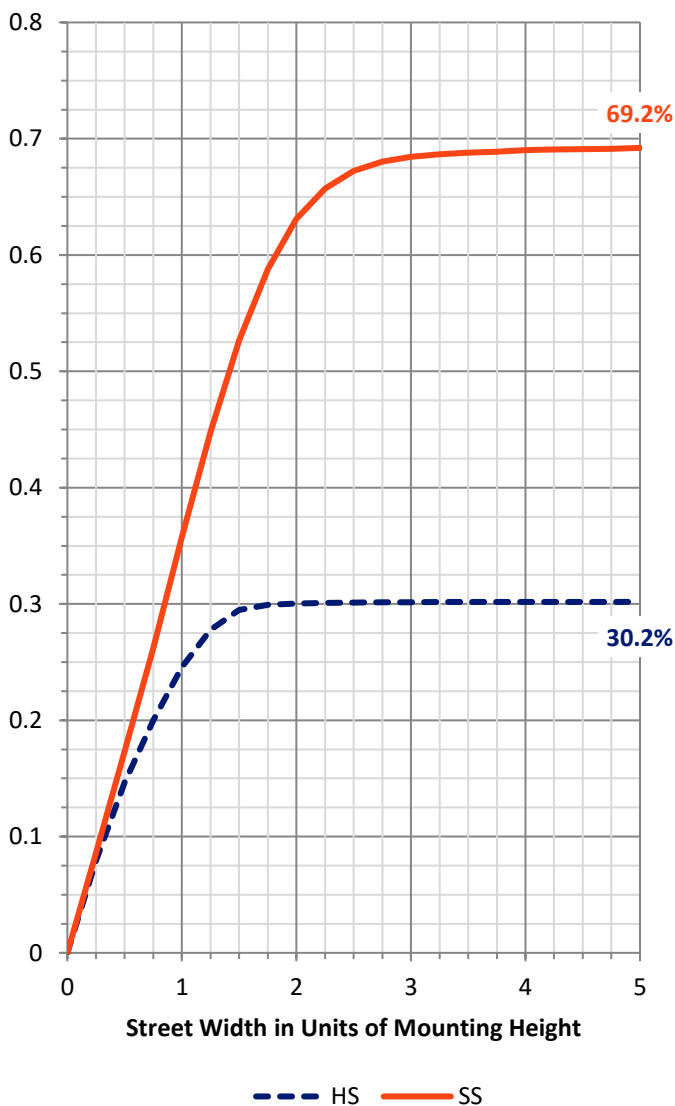
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21829.1 | 0.1 | 21829.2 |
| | % Fixture | 30.4 | 0.0 | 30.4 |
| Street Side | Lumens | 50032.4 | 62.4 | 50094.8 |
| | % Fixture | 69.6 | 0.1 | 69.6 |
| Total | Lumens | 71861.5 | 62.5 | 71924.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 799.1 | 1.1 |
| 10°-20° | 2564.8 | 3.6 |
| 20°-30° | 4687.8 | 6.5 |
| 30°-40° | 8933.5 | 12.4 |
| 40°-50° | 15333.5 | 21.3 |
| 50°-60° | 20570.3 | 28.6 |
| 60°-70° | 15637.5 | 21.7 |
| 70°-80° | 2961.0 | 4.1 |
| 80°-90° | 373.9 | 0.5 |
| 90°-100° | 55.0 | 0.1 |
| 100°-110° | 7.4 | 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° | 71861.5 | 99.9 |
| 0°-180° | 71924.0 | 100.0 |

Coefficient of Utilization

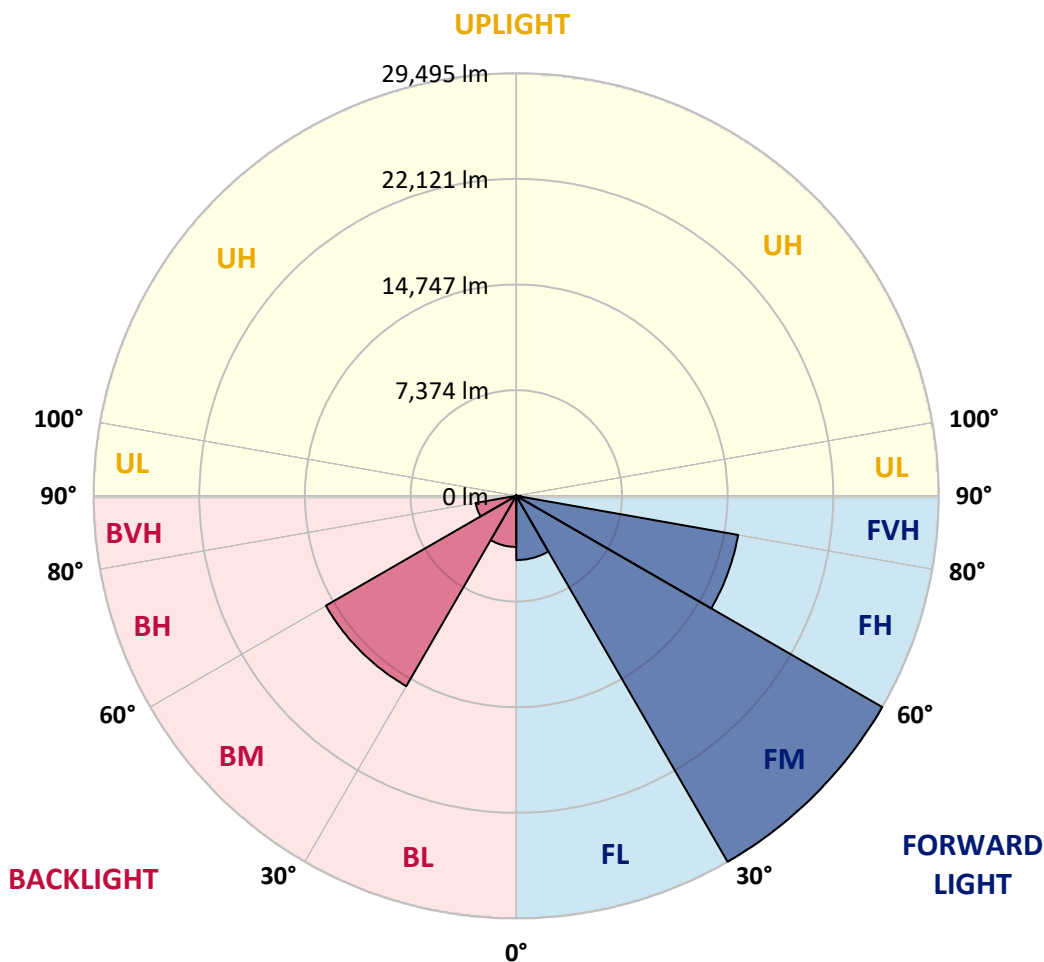


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4483.6 | 6.2 | | | |
| FM (30°-60°) | 29494.8 | 41.0 | | | |
| FH (60°-80°) | 15723.9 | 21.9 | | | G5 |
| FVH (80°-90°) | 330.1 | 0.5 | | | G3/500 |
| BL (0°-30°) | 3568.3 | 5.0 | B4/5000 | | |
| BM (30°-60°) | 15342.5 | 21.3 | B5 | | |
| BH (60°-80°) | 2874.6 | 4.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 43.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 55.0 | 0.1 | | U3/500 | |
| UH (100°-180°) | 7.5 | 0.0 | | U1/10 | |

BUG Rating: B5-U3-G5
 Type III Short





REPORT NUMBER: P579590

CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX180

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 |
| 2.5° | 8299.6 | 8238.5 | 8241.9 | 8296.2 | 8140.2 | 8197.8 | 8130.0 | 8197.8 | 8160.6 | 8187.7 | 8201.2 |
| 5° | 8445.3 | 8384.3 | 8377.5 | 8435.2 | 8302.9 | 8343.6 | 8275.8 | 8323.3 | 8272.4 | 8306.3 | 8306.3 |
| 7.5° | 8665.7 | 8604.7 | 8584.3 | 8628.4 | 8506.4 | 8536.9 | 8465.7 | 8492.8 | 8435.2 | 8479.2 | 8455.5 |
| 10° | 8926.8 | 8859.0 | 8835.2 | 8859.0 | 8753.9 | 8770.8 | 8686.1 | 8716.6 | 8631.8 | 8682.7 | 8648.8 |
| 12.5° | 9204.8 | 9116.6 | 9116.6 | 9137.0 | 9025.1 | 9028.5 | 8950.5 | 8967.5 | 8882.7 | 8936.9 | 8896.3 |
| 15° | 9506.5 | 9408.2 | 9421.8 | 9442.1 | 9323.4 | 9343.8 | 9262.4 | 9289.5 | 9201.4 | 9255.6 | 9214.9 |
| 17.5° | 9906.6 | 9801.5 | 9787.9 | 9848.9 | 9737.1 | 9774.4 | 9682.8 | 9716.7 | 9638.7 | 9655.7 | 9635.3 |
| 20° | 10459.2 | 10327.0 | 10296.5 | 10377.8 | 10252.4 | 10279.5 | 10211.7 | 10279.5 | 10198.1 | 10076.1 | 9733.7 |
| 22.5° | 11120.3 | 11005.0 | 10954.2 | 11008.4 | 10859.3 | 10906.7 | 10903.3 | 11011.8 | 10788.1 | 10018.5 | 9676.0 |
| 25° | 11991.6 | 11913.7 | 11815.3 | 11822.1 | 11642.4 | 11713.6 | 11842.5 | 11927.2 | 10974.5 | 10299.9 | 10306.6 |
| 27.5° | 13154.5 | 13076.5 | 12940.9 | 12890.1 | 12629.0 | 12801.9 | 13002.0 | 12174.7 | 11425.4 | 11598.4 | 11503.4 |
| 30° | 14639.5 | 14625.9 | 14351.3 | 14263.2 | 13978.4 | 14195.4 | 14022.5 | 12605.3 | 12863.0 | 13103.7 | 12957.9 |
| 32.5° | 16616.1 | 16521.1 | 16124.5 | 15965.1 | 15666.8 | 15792.2 | 14266.6 | 14063.1 | 14446.2 | 14771.7 | 14619.2 |
| 35° | 19006.3 | 18718.1 | 18314.6 | 17999.3 | 17480.6 | 16782.2 | 15195.5 | 15592.2 | 16165.1 | 16612.7 | 15873.6 |
| 37.5° | 21782.9 | 21471.0 | 20840.4 | 20274.2 | 19457.2 | 17280.6 | 16595.7 | 17389.1 | 18107.8 | 17623.0 | 15917.7 |
| 40° | 24641.0 | 24363.0 | 23769.7 | 23040.8 | 21660.9 | 18826.6 | 18294.3 | 19243.6 | 20060.6 | 17284.0 | 16436.4 |
| 42.5° | 27478.7 | 27241.4 | 26763.4 | 26044.6 | 24268.1 | 20667.5 | 20155.6 | 21176.1 | 20406.5 | 17945.1 | 17918.0 |
| 45° | 30340.2 | 30221.5 | 29679.0 | 29065.4 | 27356.7 | 23023.8 | 22240.6 | 23037.4 | 19636.9 | 19528.4 | 19463.9 |
| 47.5° | 32659.2 | 32679.5 | 32489.6 | 32170.9 | 30652.1 | 25610.6 | 24590.1 | 22227.1 | 20572.6 | 20691.3 | 20721.8 |
| 50° | 35049.3 | 34896.8 | 34886.6 | 34907.0 | 34273.0 | 28943.3 | 26190.4 | 21860.9 | 21796.5 | 21786.3 | 21759.2 |
| 52.5° | 36964.9 | 36771.6 | 37171.7 | 37490.4 | 37866.7 | 32662.5 | 25949.7 | 23101.8 | 22732.2 | 22603.4 | 21813.5 |
| 55° | 38524.4 | 38449.9 | 39100.8 | 40178.9 | 41853.8 | 36602.1 | 28078.8 | 24312.1 | 23573.0 | 20562.4 | 18548.6 |
| 57.5° | 39470.3 | 39578.8 | 40921.4 | 43040.4 | 46176.4 | 39867.0 | 30557.1 | 25539.4 | 20182.7 | 18111.2 | 17982.4 |
| 60° | 37659.9 | 38232.9 | 40518.0 | 45169.5 | 49831.2 | 42938.7 | 32401.5 | 25786.9 | 18162.1 | 17053.4 | 16795.7 |
| 62.5° | 33228.7 | 33174.5 | 37100.5 | 45169.5 | 50990.7 | 43243.8 | 32984.6 | 24034.1 | 15866.8 | 14422.5 | 14134.3 |
| 65° | 23518.8 | 23661.2 | 27855.0 | 40704.4 | 46451.1 | 40223.0 | 30424.9 | 20433.6 | 12656.1 | 11330.5 | 10940.6 |
| 67.5° | 14554.7 | 14544.6 | 18650.3 | 29977.4 | 37812.5 | 33676.3 | 25614.0 | 15663.4 | 8784.4 | 7533.3 | 7109.5 |
| 70° | 5027.9 | 5170.3 | 8387.7 | 17541.6 | 27834.7 | 26383.6 | 19169.0 | 9889.6 | 4631.2 | 3302.2 | 2786.9 |
| 72.5° | 2000.3 | 2047.8 | 3010.6 | 7821.5 | 17389.1 | 17626.4 | 11649.2 | 4804.1 | 1386.6 | 881.5 | 827.2 |
| 75° | 1308.7 | 1315.5 | 1444.3 | 2824.2 | 8438.6 | 9482.8 | 5411.0 | 1379.9 | 644.2 | 589.9 | 576.4 |
| 77.5° | 1129.0 | 1132.4 | 1200.2 | 1430.7 | 2749.6 | 3688.7 | 1539.2 | 817.1 | 539.1 | 484.8 | 471.3 |
| 80° | 1047.6 | 1051.0 | 1084.9 | 1230.7 | 1325.6 | 1257.8 | 820.5 | 657.7 | 454.3 | 430.6 | 427.2 |
| 82.5° | 990.0 | 1003.5 | 1020.5 | 1108.6 | 1071.3 | 945.9 | 681.5 | 532.3 | 349.2 | 372.9 | 383.1 |
| 85° | 912.0 | 925.6 | 935.7 | 986.6 | 895.1 | 691.6 | 528.9 | 400.1 | 223.8 | 244.1 | 240.7 |
| 87.5° | 684.8 | 691.6 | 678.1 | 671.3 | 623.8 | 484.8 | 349.2 | 254.3 | 88.1 | 81.4 | 74.6 |
| 90° | 328.9 | 325.5 | 311.9 | 288.2 | 250.9 | 196.6 | 145.8 | 81.4 | 37.3 | 17.0 | 6.8 |
| 92.5° | 261.1 | 257.7 | 250.9 | 227.2 | 196.6 | 145.8 | 105.1 | 57.6 | 33.9 | 13.6 | 3.4 |
| 95° | 176.3 | 169.5 | 162.7 | 145.8 | 122.1 | 88.1 | 61.0 | 40.7 | 27.1 | 10.2 | 3.4 |
| 97.5° | 115.3 | 111.9 | 101.7 | 88.1 | 67.8 | 47.5 | 37.3 | 30.5 | 23.7 | 10.2 | 3.4 |
| 100° | 71.2 | 71.2 | 64.4 | 50.9 | 33.9 | 27.1 | 23.7 | 23.7 | 17.0 | 6.8 | 0.0 |
| 102.5° | 44.1 | 40.7 | 37.3 | 23.7 | 17.0 | 17.0 | 17.0 | 17.0 | 13.6 | 6.8 | 0.0 |
| 105° | 23.7 | 23.7 | 17.0 | 13.6 | 10.2 | 6.8 | 10.2 | 13.6 | 10.2 | 3.4 | 0.0 |
| 107.5° | 6.8 | 6.8 | 6.8 | 3.4 | 3.4 | 0.0 | 3.4 | 6.8 | 6.8 | 3.4 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 6.8 | 3.4 | 0.0 |



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 CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX180

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 |



REPORT NUMBER: P579590

CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX180

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 | 8099.5 |
| 2.5° | 8184.3 | 8119.9 | 8136.8 | 8072.4 | 8062.2 | 7994.4 | 8109.7 | 8116.5 | 8086.0 | 8119.9 |
| 5° | 8289.4 | 8211.4 | 8241.9 | 8163.9 | 8150.4 | 8062.2 | 8153.8 | 8143.6 | 8119.9 | 8147.0 |
| 7.5° | 8438.6 | 8360.6 | 8377.5 | 8286.0 | 8269.0 | 8170.7 | 8258.9 | 8225.0 | 8194.5 | 8231.7 |
| 10° | 8645.4 | 8557.2 | 8570.8 | 8462.3 | 8448.7 | 8333.5 | 8435.2 | 8384.3 | 8340.2 | 8391.1 |
| 12.5° | 8899.6 | 8784.4 | 8770.8 | 8655.5 | 8645.4 | 8536.9 | 8642.0 | 8591.1 | 8547.0 | 8628.4 |
| 15° | 9191.2 | 9038.6 | 9018.3 | 8872.5 | 8855.6 | 8743.7 | 8845.4 | 8770.8 | 8736.9 | 8842.0 |
| 17.5° | 9581.1 | 9042.0 | 8740.3 | 8526.7 | 8404.7 | 8343.6 | 8526.7 | 8774.2 | 8699.6 | 8703.0 |
| 20° | 9421.8 | 8842.0 | 8438.6 | 8255.5 | 8123.3 | 7533.3 | 6719.7 | 6953.6 | 7428.2 | 7662.2 |
| 22.5° | 9374.3 | 9170.9 | 9004.7 | 8696.2 | 7384.2 | 7051.9 | 7099.4 | 7045.1 | 6150.1 | 5807.7 |
| 25° | 10282.9 | 10049.0 | 9689.6 | 8072.4 | 7692.7 | 7618.1 | 7645.2 | 6709.5 | 6034.8 | 6133.1 |
| 27.5° | 11445.8 | 11205.1 | 9431.9 | 8526.7 | 8452.1 | 8353.8 | 7818.1 | 6648.5 | 6740.0 | 6834.9 |
| 30° | 12910.4 | 11645.8 | 9835.4 | 9557.4 | 9418.4 | 9316.7 | 7329.9 | 7424.8 | 7577.4 | 7696.1 |
| 32.5° | 14337.8 | 11608.5 | 10991.5 | 10645.7 | 10472.8 | 8499.6 | 8282.6 | 8503.0 | 8658.9 | 8750.5 |
| 35° | 14354.7 | 12937.5 | 12286.6 | 11842.5 | 10744.0 | 9137.0 | 9337.0 | 9706.5 | 10089.7 | 10160.9 |
| 37.5° | 14744.6 | 14442.9 | 13697.0 | 13137.6 | 7991.0 | 10198.1 | 10638.9 | 11062.7 | 11445.8 | 11469.5 |
| 40° | 16297.4 | 15971.9 | 15273.5 | 14042.8 | 8825.1 | 10401.6 | 12073.0 | 12551.0 | 12873.1 | 12856.2 |
| 42.5° | 17846.8 | 17623.0 | 16897.5 | 12479.8 | 9943.9 | 9011.5 | 13578.3 | 13893.6 | 14097.0 | 14239.4 |
| 45° | 19406.3 | 19182.5 | 16731.3 | 13703.8 | 11276.3 | 9869.3 | 13212.2 | 14998.9 | 15222.6 | 15293.8 |
| 47.5° | 20623.4 | 20070.8 | 15331.1 | 15327.7 | 12940.9 | 10967.8 | 10910.1 | 15995.6 | 16192.3 | 16141.4 |
| 50° | 21749.0 | 17918.0 | 16572.0 | 15860.0 | 14663.2 | 12001.8 | 11601.7 | 13459.7 | 17070.4 | 16995.8 |
| 52.5° | 19789.4 | 17389.1 | 17636.6 | 14425.9 | 16046.5 | 13029.1 | 12381.5 | 12069.6 | 15510.8 | 17507.7 |
| 55° | 17697.6 | 18036.6 | 18724.9 | 15849.8 | 11642.4 | 13361.3 | 13042.6 | 12422.2 | 10466.0 | 8808.1 |
| 57.5° | 18060.3 | 18565.5 | 18599.4 | 17168.7 | 12049.3 | 8347.0 | 10689.7 | 9357.3 | 5912.8 | 5926.3 |
| 60° | 16850.0 | 17507.7 | 13595.3 | 11445.8 | 6478.9 | 1739.2 | 169.5 | 149.2 | 1030.7 | 1254.4 |
| 62.5° | 14246.2 | 15161.6 | 12978.2 | 9971.0 | 4156.6 | 64.4 | 17.0 | 3.4 | 0.0 | 0.0 |
| 65° | 11032.2 | 12134.0 | 10967.8 | 8604.7 | 3688.7 | 20.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7275.7 | 8269.0 | 8333.5 | 7197.7 | 3075.0 | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3047.9 | 4292.2 | 5187.2 | 5350.0 | 2417.3 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 881.5 | 1362.9 | 2495.3 | 3214.0 | 1535.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 586.5 | 627.2 | 722.1 | 1447.7 | 766.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 484.8 | 495.0 | 413.6 | 396.7 | 220.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 440.7 | 434.0 | 332.3 | 233.9 | 81.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 406.8 | 386.5 | 240.7 | 122.1 | 54.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 274.6 | 271.2 | 108.5 | 74.6 | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 74.6 | 94.9 | 23.7 | 10.2 | 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 |
| 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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| | 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)