

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: P579490

Luminaire Tested: **CST-CA10-760-740-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579490
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-CA10-760-740-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78317 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

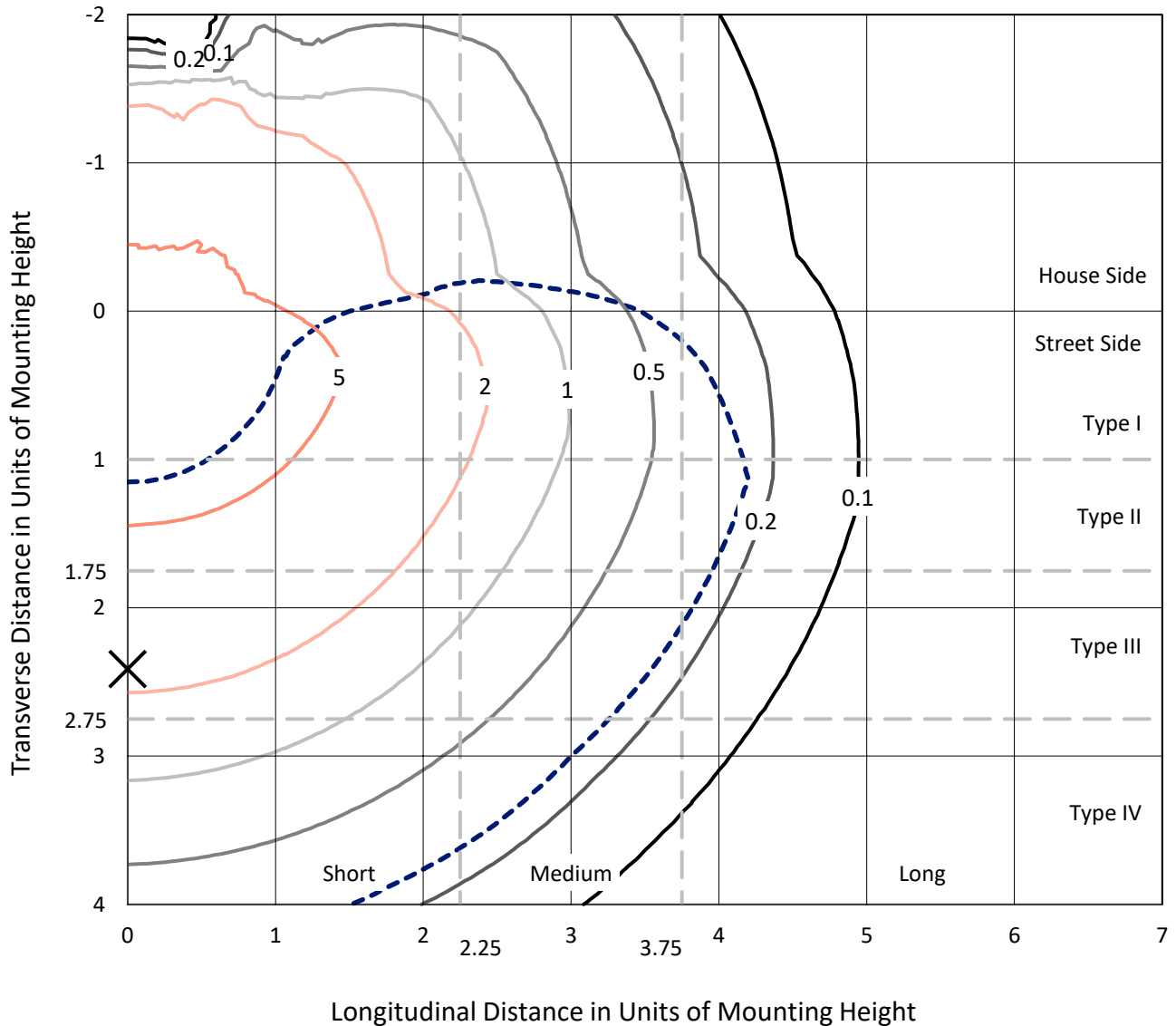
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

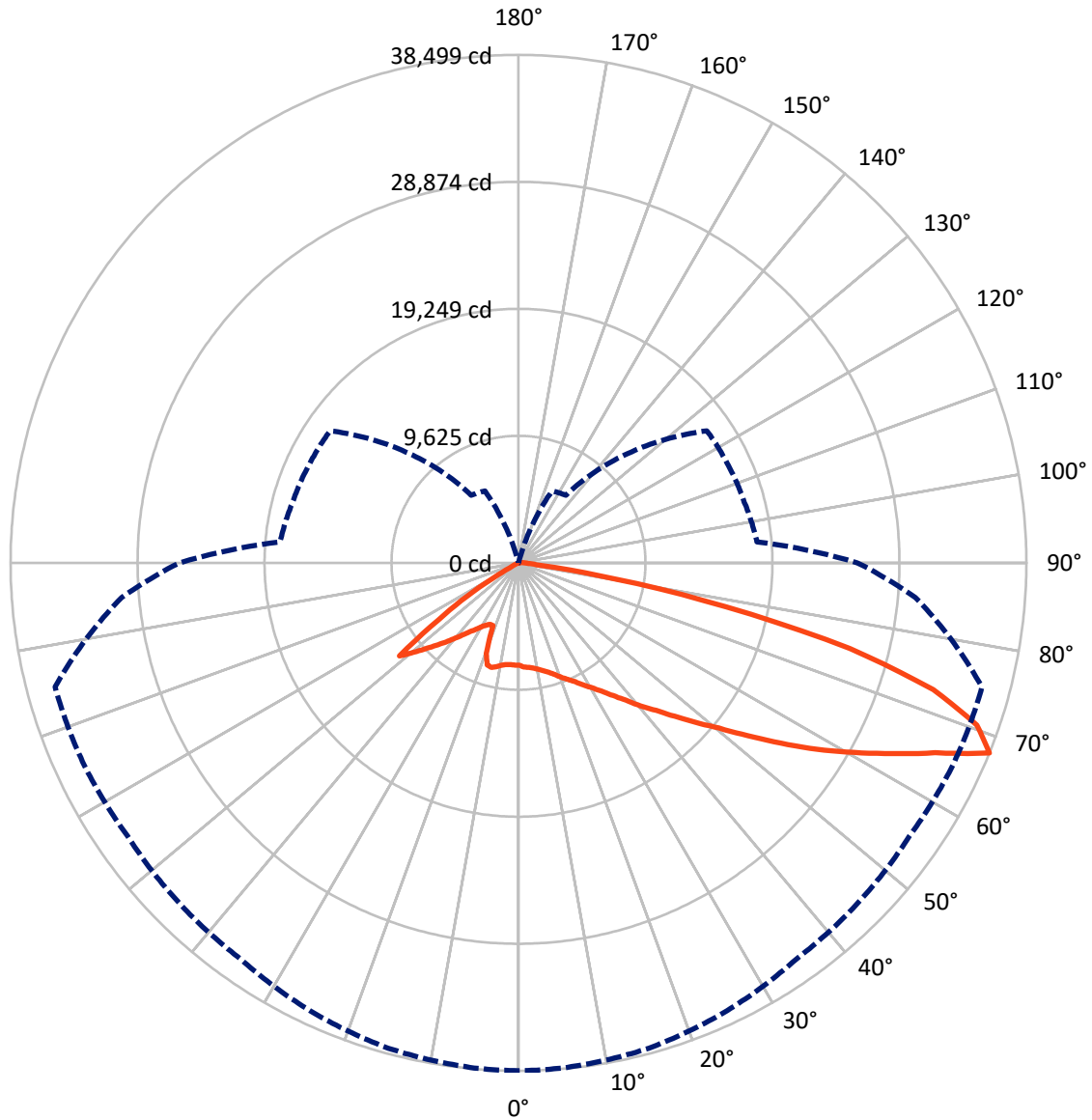
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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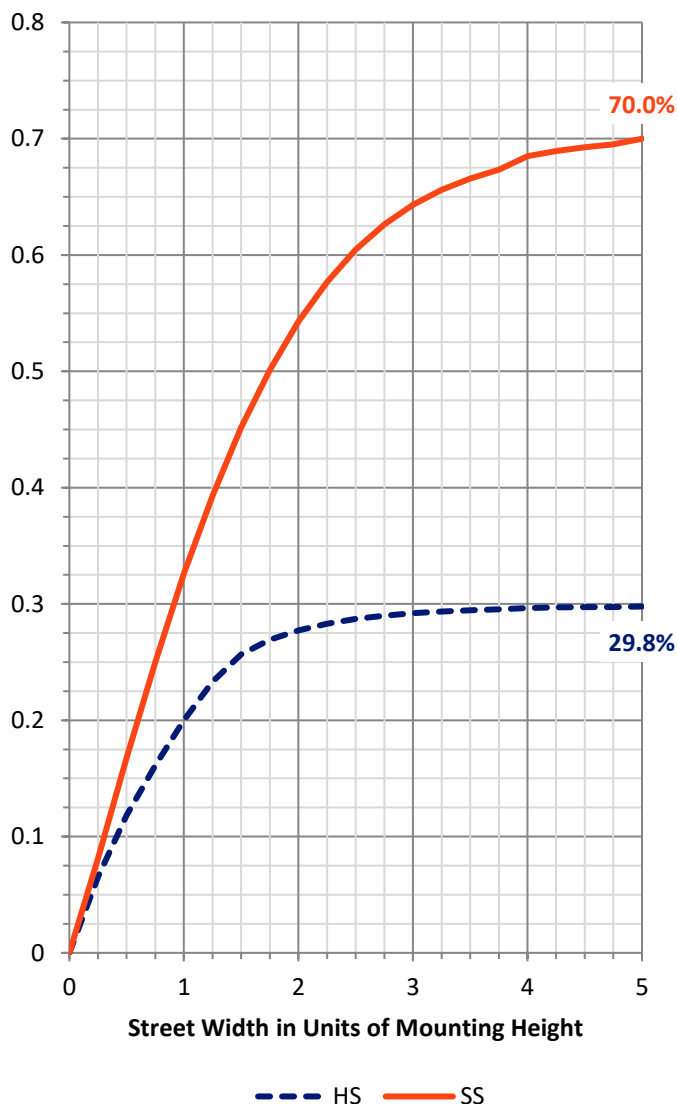
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23378.1 | 7.9 | 23385.9 |
| | % Fixture | 29.9 | 0.0 | 29.9 |
| Street Side | Lumens | 54842.9 | 88.2 | 54931.1 |
| | % Fixture | 70.0 | 0.1 | 70.1 |
| Total | Lumens | 78221.0 | 96.0 | 78317.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 748.2 | 1.0 |
| 10°-20° | 2316.2 | 3.0 |
| 20°-30° | 3887.0 | 5.0 |
| 30°-40° | 6302.9 | 8.0 |
| 40°-50° | 10299.6 | 13.2 |
| 50°-60° | 16141.4 | 20.6 |
| 60°-70° | 21618.3 | 27.6 |
| 70°-80° | 15756.8 | 20.1 |
| 80°-90° | 1150.7 | 1.5 |
| 90°-100° | 73.6 | 0.1 |
| 100°-110° | 20.9 | 0.0 |
| 110°-120° | 1.5 | 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° | 78221.0 | 99.9 |
| 0°-180° | 78317.0 | 100.0 |

Coefficient of Utilization



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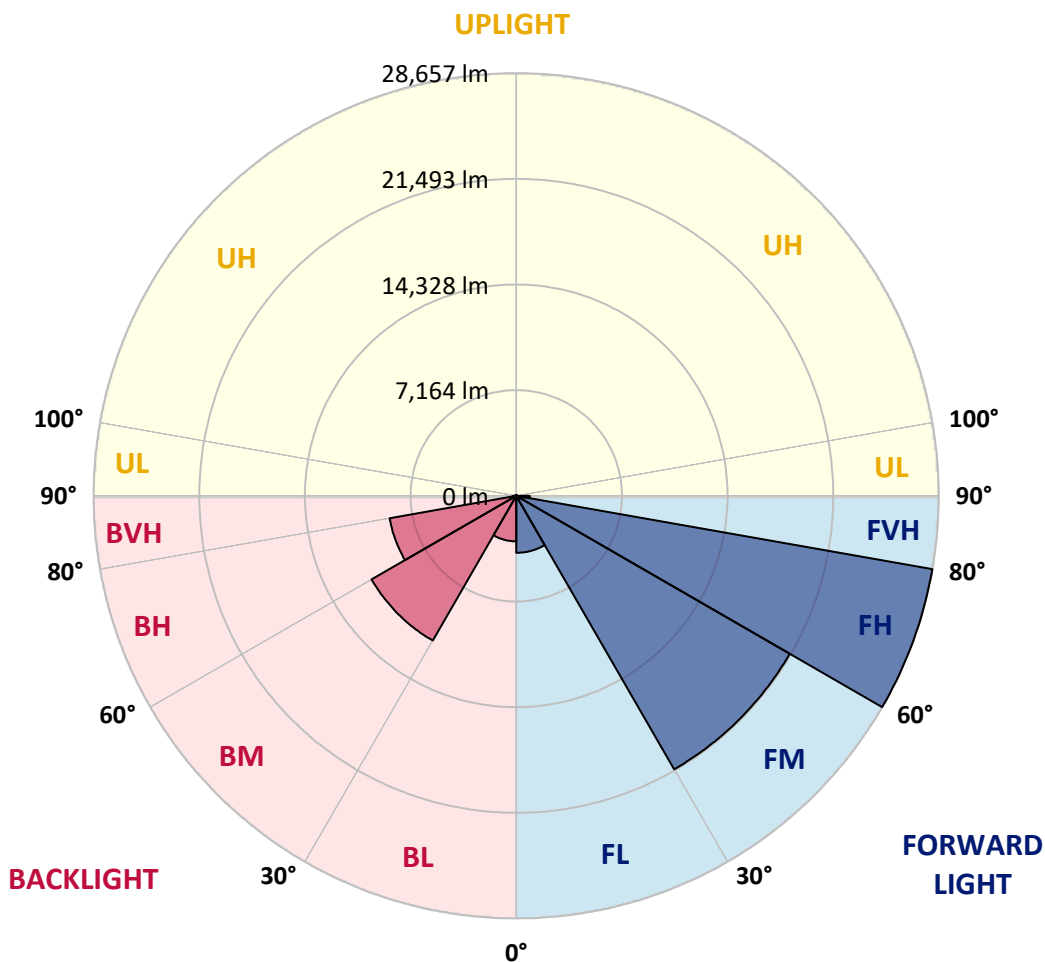
CATALOG NUMBER: CST-CA10-760-740-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|--------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3863.0 | 4.9 | | | |
| FM (30°-60°) | 21413.3 | 27.3 | | | |
| FH (60°-80°) | 28656.7 | 36.6 | | | G5 |
| FVH (80°-90°) | 909.9 | 1.2 | | | G5 |
| BL (0°-30°) | 3088.3 | 3.9 | B4/5000 | | |
| BM (30°-60°) | 11330.7 | 14.5 | B5 | | |
| BH (60°-80°) | 8718.4 | 11.1 | B5 | | G5 |
| BVH (80°-90°) | 240.7 | 0.3 | | | G3/500 |
| UL (90°-100°) | 73.6 | 0.1 | | U3/500 | |
| UH (100°-180°) | 22.4 | 0.0 | | U2/50 | |

BUG Rating: B5-U3-G5

Type IV Short





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CATALOG NUMBER: CST-CA10-760-740-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 |
| 2.5° | 7908.5 | 7862.4 | 7865.7 | 7908.5 | 7780.1 | 7822.9 | 7766.9 | 7809.7 | 7780.1 | 7790.0 | 7809.7 |
| 5° | 7957.9 | 7908.5 | 7911.8 | 7964.5 | 7849.2 | 7885.4 | 7809.7 | 7832.8 | 7806.4 | 7819.6 | 7819.6 |
| 7.5° | 8056.6 | 8000.7 | 7997.4 | 8030.3 | 7911.8 | 7924.9 | 7855.8 | 7859.1 | 7819.6 | 7845.9 | 7832.8 |
| 10° | 8204.8 | 8158.7 | 8125.8 | 8145.5 | 8040.2 | 8033.6 | 7944.7 | 7948.0 | 7898.6 | 7928.2 | 7905.2 |
| 12.5° | 8385.9 | 8323.3 | 8316.7 | 8323.3 | 8208.1 | 8181.8 | 8089.6 | 8096.2 | 8007.3 | 8053.3 | 8027.0 |
| 15° | 8616.4 | 8517.6 | 8517.6 | 8553.8 | 8405.6 | 8385.9 | 8273.9 | 8280.5 | 8188.3 | 8224.6 | 8198.2 |
| 17.5° | 8899.5 | 8804.0 | 8787.6 | 8813.9 | 8685.5 | 8659.2 | 8543.9 | 8537.3 | 8435.3 | 8445.2 | 8422.1 |
| 20° | 9265.0 | 9169.5 | 9130.0 | 9195.8 | 9034.5 | 9014.7 | 8876.5 | 8863.3 | 8754.6 | 8725.0 | 8711.8 |
| 22.5° | 9604.1 | 9528.4 | 9508.6 | 9581.0 | 9413.1 | 9396.7 | 9265.0 | 9248.5 | 9146.4 | 9103.6 | 8843.5 |
| 25° | 9986.0 | 9969.6 | 9963.0 | 9986.0 | 9828.0 | 9795.1 | 9693.0 | 9669.9 | 9584.3 | 9531.7 | 9215.6 |
| 27.5° | 10479.9 | 10473.3 | 10453.6 | 10456.8 | 10312.0 | 10282.3 | 10186.9 | 10170.4 | 10081.5 | 10022.2 | 9617.3 |
| 30° | 10996.8 | 10996.8 | 10954.0 | 10977.1 | 10904.6 | 10858.5 | 10782.8 | 10723.5 | 10667.6 | 10605.0 | 10094.7 |
| 32.5° | 11592.7 | 11589.4 | 11549.9 | 11619.1 | 11566.4 | 11566.4 | 11520.3 | 11457.7 | 11359.0 | 11329.3 | 10710.4 |
| 35° | 12359.9 | 12310.5 | 12294.0 | 12406.0 | 12389.5 | 12419.1 | 12402.7 | 12336.8 | 12254.5 | 12185.4 | 11434.7 |
| 37.5° | 13209.3 | 13196.2 | 13245.6 | 13314.7 | 13350.9 | 13429.9 | 13380.5 | 13377.3 | 13364.1 | 13189.6 | 11240.4 |
| 40° | 14256.3 | 14200.4 | 14269.5 | 14305.7 | 14279.4 | 14407.8 | 14365.0 | 14401.2 | 14500.0 | 13097.4 | 11227.3 |
| 42.5° | 15300.0 | 15250.7 | 15300.0 | 15477.8 | 15438.3 | 15593.1 | 15573.3 | 15714.9 | 15770.9 | 13291.6 | 12139.3 |
| 45° | 16584.1 | 16528.1 | 16567.6 | 16778.4 | 16798.1 | 16985.8 | 17087.9 | 17222.8 | 17249.2 | 14549.4 | 13239.0 |
| 47.5° | 18059.1 | 17966.9 | 18042.7 | 18141.4 | 18441.1 | 18618.8 | 18717.6 | 18882.2 | 19050.2 | 16063.9 | 14490.1 |
| 50° | 19685.6 | 19679.0 | 19761.3 | 19932.5 | 20274.9 | 20452.7 | 20623.9 | 20795.2 | 21071.7 | 17752.9 | 15892.7 |
| 52.5° | 21753.3 | 21710.5 | 21852.0 | 22013.4 | 22316.3 | 22589.5 | 22793.7 | 22971.5 | 23267.8 | 19461.7 | 17410.5 |
| 55° | 24117.2 | 23969.1 | 24239.1 | 24512.3 | 24640.7 | 24963.4 | 25105.0 | 25253.1 | 25536.3 | 21259.4 | 18296.2 |
| 57.5° | 26668.9 | 26632.7 | 26820.4 | 26919.1 | 27195.7 | 27396.5 | 27472.3 | 27633.6 | 27630.3 | 23129.5 | 19804.1 |
| 60° | 29181.0 | 29141.5 | 29362.1 | 29421.4 | 29642.0 | 29823.1 | 29796.7 | 29941.6 | 29994.3 | 24884.4 | 21282.4 |
| 62.5° | 31824.9 | 31759.0 | 31963.2 | 31976.3 | 31844.6 | 32137.7 | 32108.0 | 32229.9 | 32183.8 | 26599.8 | 22737.7 |
| 65° | 34715.7 | 34765.1 | 34830.9 | 34560.9 | 34244.8 | 34498.4 | 34491.8 | 34722.2 | 34886.9 | 28996.7 | 24686.8 |
| 67.5° | 38498.7 | 38436.1 | 38097.0 | 37445.1 | 36678.0 | 36421.2 | 36147.9 | 36315.8 | 36361.9 | 30188.5 | 25684.5 |
| 70° | 36865.6 | 36727.4 | 36575.9 | 35910.8 | 34985.6 | 34333.7 | 33909.0 | 34086.8 | 34274.5 | 28529.1 | 24123.8 |
| 72.5° | 32885.1 | 32542.6 | 31838.1 | 31252.0 | 30718.6 | 30083.2 | 29566.3 | 29875.8 | 30287.3 | 25305.8 | 21361.5 |
| 75° | 25944.6 | 25625.2 | 25111.6 | 24713.2 | 24426.7 | 24420.2 | 24397.1 | 24637.5 | 24578.2 | 20548.2 | 17367.7 |
| 77.5° | 16067.2 | 16735.6 | 17209.7 | 16870.5 | 16989.1 | 16745.4 | 17282.1 | 17598.2 | 17884.6 | 14730.5 | 12373.1 |
| 80° | 7417.9 | 7589.1 | 8428.7 | 8211.4 | 8036.9 | 7987.5 | 8020.4 | 8570.3 | 8731.6 | 6611.3 | 5537.9 |
| 82.5° | 1692.3 | 1623.2 | 1682.4 | 1560.6 | 1554.0 | 1481.6 | 1491.5 | 1491.5 | 1438.8 | 1218.2 | 1020.7 |
| 85° | 856.0 | 875.8 | 882.4 | 846.2 | 747.4 | 671.7 | 622.3 | 526.8 | 454.4 | 388.5 | 329.2 |
| 87.5° | 572.9 | 589.3 | 599.2 | 549.8 | 493.9 | 431.3 | 391.8 | 319.4 | 253.5 | 158.0 | 121.8 |
| 90° | 391.8 | 388.5 | 378.6 | 352.3 | 316.1 | 270.0 | 217.3 | 151.5 | 88.9 | 32.9 | 23.0 |
| 92.5° | 279.9 | 273.3 | 270.0 | 246.9 | 220.6 | 184.4 | 141.6 | 95.5 | 49.4 | 23.0 | 13.2 |
| 95° | 184.4 | 181.1 | 181.1 | 167.9 | 148.2 | 121.8 | 95.5 | 62.6 | 36.2 | 19.8 | 13.2 |
| 97.5° | 128.4 | 125.1 | 125.1 | 118.5 | 105.4 | 88.9 | 65.8 | 42.8 | 29.6 | 19.8 | 13.2 |
| 100° | 88.9 | 88.9 | 88.9 | 82.3 | 75.7 | 62.6 | 49.4 | 32.9 | 26.3 | 19.8 | 13.2 |
| 102.5° | 59.3 | 59.3 | 62.6 | 59.3 | 52.7 | 42.8 | 32.9 | 26.3 | 23.0 | 16.5 | 13.2 |
| 105° | 39.5 | 39.5 | 39.5 | 39.5 | 36.2 | 29.6 | 26.3 | 23.0 | 19.8 | 16.5 | 13.2 |
| 107.5° | 26.3 | 26.3 | 26.3 | 26.3 | 23.0 | 19.8 | 19.8 | 19.8 | 16.5 | 16.5 | 13.2 |
| 110° | 16.5 | 16.5 | 16.5 | 19.8 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 13.2 | 13.2 |



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 CATALOG NUMBER: CST-CA10-760-740-U-T5-HSS-HM-EX120

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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CATALOG NUMBER: CST-CA10-760-740-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0° | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 | 7760.3 |
| 2.5° | 7793.2 | 7747.2 | 7770.2 | 7724.1 | 7704.3 | 7661.5 | 7743.9 | 7750.4 | 7743.9 | 7757.0 |
| 5° | 7803.1 | 7750.4 | 7776.8 | 7724.1 | 7714.2 | 7664.8 | 7747.2 | 7747.2 | 7727.4 | 7737.3 |
| 7.5° | 7826.2 | 7770.2 | 7790.0 | 7727.4 | 7727.4 | 7668.1 | 7766.9 | 7760.3 | 7743.9 | 7766.9 |
| 10° | 7905.2 | 7839.3 | 7839.3 | 7780.1 | 7786.7 | 7724.1 | 7845.9 | 7845.9 | 7832.8 | 7872.3 |
| 12.5° | 8027.0 | 7944.7 | 7948.0 | 7865.7 | 7878.8 | 7829.5 | 7977.6 | 7984.2 | 7984.2 | 8050.1 |
| 15° | 8185.0 | 8059.9 | 8073.1 | 7984.2 | 8010.5 | 7951.3 | 8083.0 | 8076.4 | 8092.9 | 8188.3 |
| 17.5° | 8379.3 | 8241.0 | 8125.8 | 7836.0 | 7664.8 | 7671.4 | 8063.2 | 8244.3 | 8033.6 | 8096.2 |
| 20° | 8461.6 | 7790.0 | 7424.5 | 7319.1 | 7296.1 | 6930.6 | 6183.2 | 6298.5 | 7003.1 | 7309.3 |
| 22.5° | 7908.5 | 7694.5 | 7658.3 | 7523.3 | 6525.6 | 6249.1 | 6295.2 | 6229.3 | 5537.9 | 5146.1 |
| 25° | 8178.5 | 8036.9 | 7954.6 | 6766.0 | 6542.1 | 6492.7 | 6459.8 | 5834.2 | 5083.6 | 5119.8 |
| 27.5° | 8560.4 | 8376.0 | 7388.3 | 6795.6 | 6838.4 | 6762.7 | 6571.7 | 5248.2 | 5225.1 | 5284.4 |
| 30° | 9011.5 | 8547.2 | 7200.6 | 7144.6 | 7194.0 | 7095.2 | 5524.7 | 5472.1 | 5472.1 | 5531.3 |
| 32.5° | 9564.6 | 7753.7 | 7641.8 | 7648.4 | 7615.5 | 6496.0 | 5814.5 | 5801.3 | 5840.8 | 5890.2 |
| 35° | 9409.8 | 8270.7 | 8280.5 | 8336.5 | 8260.8 | 6354.4 | 6268.8 | 6219.5 | 6252.4 | 6272.1 |
| 37.5° | 9106.9 | 9047.7 | 9047.7 | 8985.1 | 7052.4 | 6851.6 | 6759.4 | 6752.8 | 6749.5 | 6749.5 |
| 40° | 9870.8 | 9814.8 | 9745.7 | 9637.0 | 7378.4 | 7431.1 | 7292.8 | 7276.3 | 7286.2 | 7322.4 |
| 42.5° | 10740.0 | 10716.9 | 10710.4 | 8270.7 | 8056.6 | 8096.2 | 7948.0 | 7905.2 | 7905.2 | 7987.5 |
| 45° | 11763.9 | 11734.3 | 11006.7 | 8840.2 | 8804.0 | 8850.1 | 8685.5 | 8583.4 | 8639.4 | 8698.7 |
| 47.5° | 12939.4 | 12939.4 | 9745.7 | 9693.0 | 9693.0 | 9719.3 | 9554.7 | 9416.4 | 9472.4 | 9492.2 |
| 50° | 14226.7 | 12215.0 | 10723.5 | 10674.1 | 10720.2 | 10707.1 | 10535.9 | 9251.8 | 10440.4 | 10450.3 |
| 52.5° | 14585.6 | 11879.2 | 11796.9 | 11740.9 | 11796.9 | 11787.0 | 11609.2 | 7717.5 | 11293.1 | 11454.5 |
| 55° | 12929.5 | 12939.4 | 12922.9 | 12840.6 | 12899.8 | 12876.8 | 12702.3 | 8425.4 | 8326.6 | 7421.2 |
| 57.5° | 13979.8 | 13992.9 | 13986.4 | 13973.2 | 14025.9 | 10190.2 | 13156.7 | 7612.2 | 4648.9 | 4652.2 |
| 60° | 15122.3 | 15056.4 | 15036.7 | 15007.0 | 12718.8 | 7223.7 | 5481.9 | 530.1 | 1817.4 | 1791.1 |
| 62.5° | 16159.4 | 16136.3 | 16067.2 | 16050.7 | 10792.7 | 5689.4 | 5557.7 | 121.8 | 95.5 | 92.2 |
| 65° | 17601.5 | 17397.3 | 17341.4 | 17166.9 | 11503.8 | 6058.1 | 5933.0 | 36.2 | 3.3 | 0.0 |
| 67.5° | 18138.1 | 17723.3 | 17522.5 | 17430.3 | 11704.7 | 6249.1 | 6008.7 | 36.2 | 3.3 | 0.0 |
| 70° | 17124.1 | 16610.4 | 16356.9 | 16254.9 | 10937.5 | 5840.8 | 5603.8 | 36.2 | 3.3 | 0.0 |
| 72.5° | 15184.8 | 14806.2 | 14704.1 | 14378.2 | 9643.6 | 5126.4 | 4918.9 | 36.2 | 0.0 | 0.0 |
| 75° | 12455.4 | 12317.1 | 12192.0 | 11846.3 | 7839.3 | 4072.8 | 3888.4 | 32.9 | 0.0 | 0.0 |
| 77.5° | 9064.1 | 8860.0 | 8629.5 | 8254.2 | 5291.0 | 2660.3 | 2564.8 | 29.6 | 0.0 | 0.0 |
| 80° | 4085.9 | 3918.0 | 3862.1 | 3276.0 | 1876.7 | 865.9 | 763.8 | 26.3 | 0.0 | 0.0 |
| 82.5° | 793.5 | 714.5 | 678.2 | 651.9 | 421.4 | 233.8 | 204.1 | 19.8 | 0.0 | 0.0 |
| 85° | 270.0 | 299.6 | 349.0 | 385.2 | 237.1 | 141.6 | 118.5 | 13.2 | 0.0 | 0.0 |
| 87.5° | 105.4 | 141.6 | 171.2 | 177.8 | 88.9 | 59.3 | 32.9 | 6.6 | 0.0 | 0.0 |
| 90° | 19.8 | 26.3 | 23.0 | 16.5 | 9.9 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 9.9 | 13.2 | 9.9 | 9.9 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 13.2 | 13.2 | 13.2 | 9.9 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 13.2 | 13.2 | 13.2 | 9.9 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 13.2 | 13.2 | 13.2 | 9.9 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 13.2 | 13.2 | 13.2 | 9.9 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 13.2 | 16.5 | 13.2 | 9.9 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 13.2 | 16.5 | 13.2 | 9.9 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 13.2 | 16.5 | 13.2 | 9.9 | 6.6 | 3.3 | 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)