

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: P579447

Luminaire Tested: **CST-CA10-760-730-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-730-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86244 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

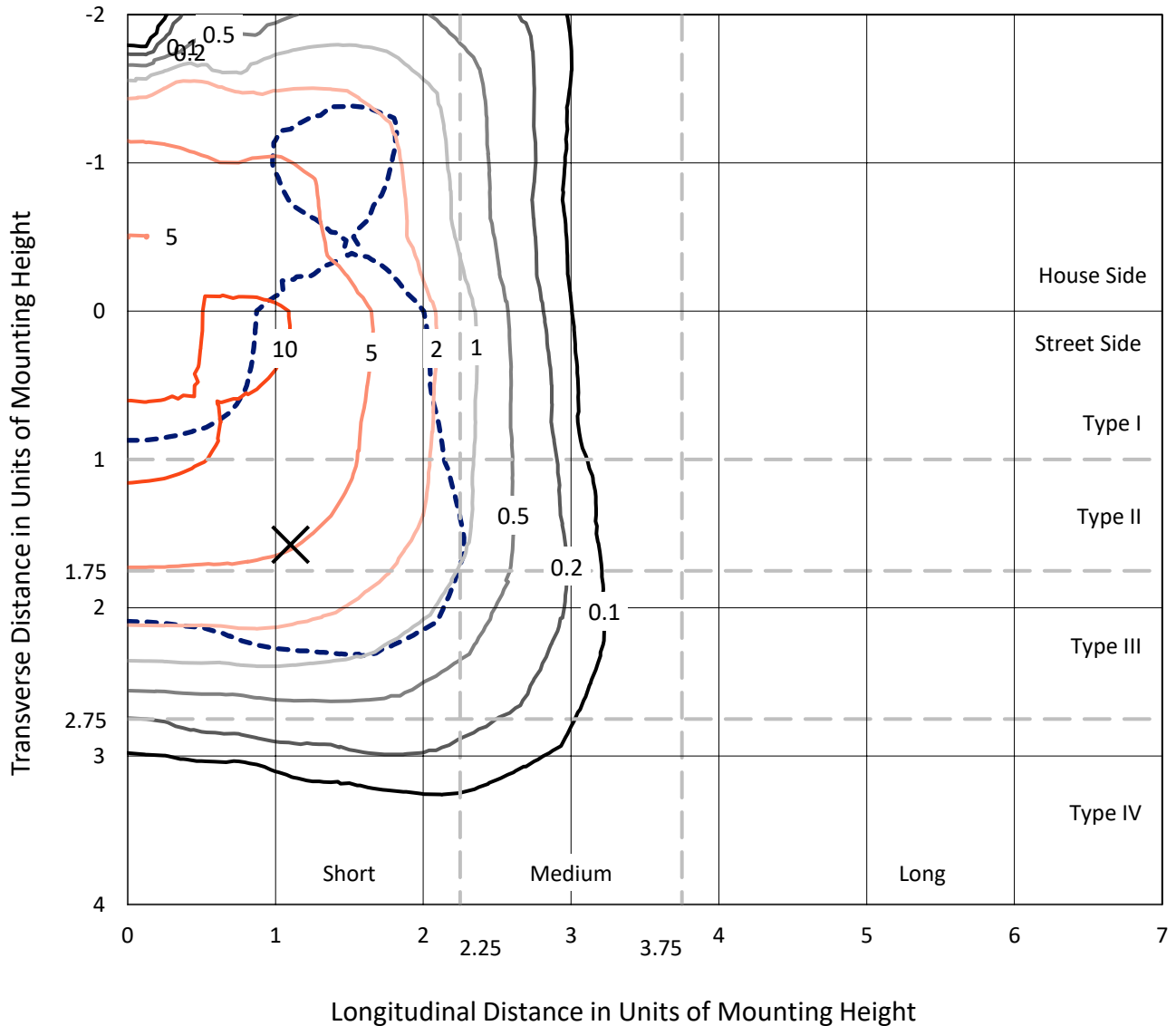
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

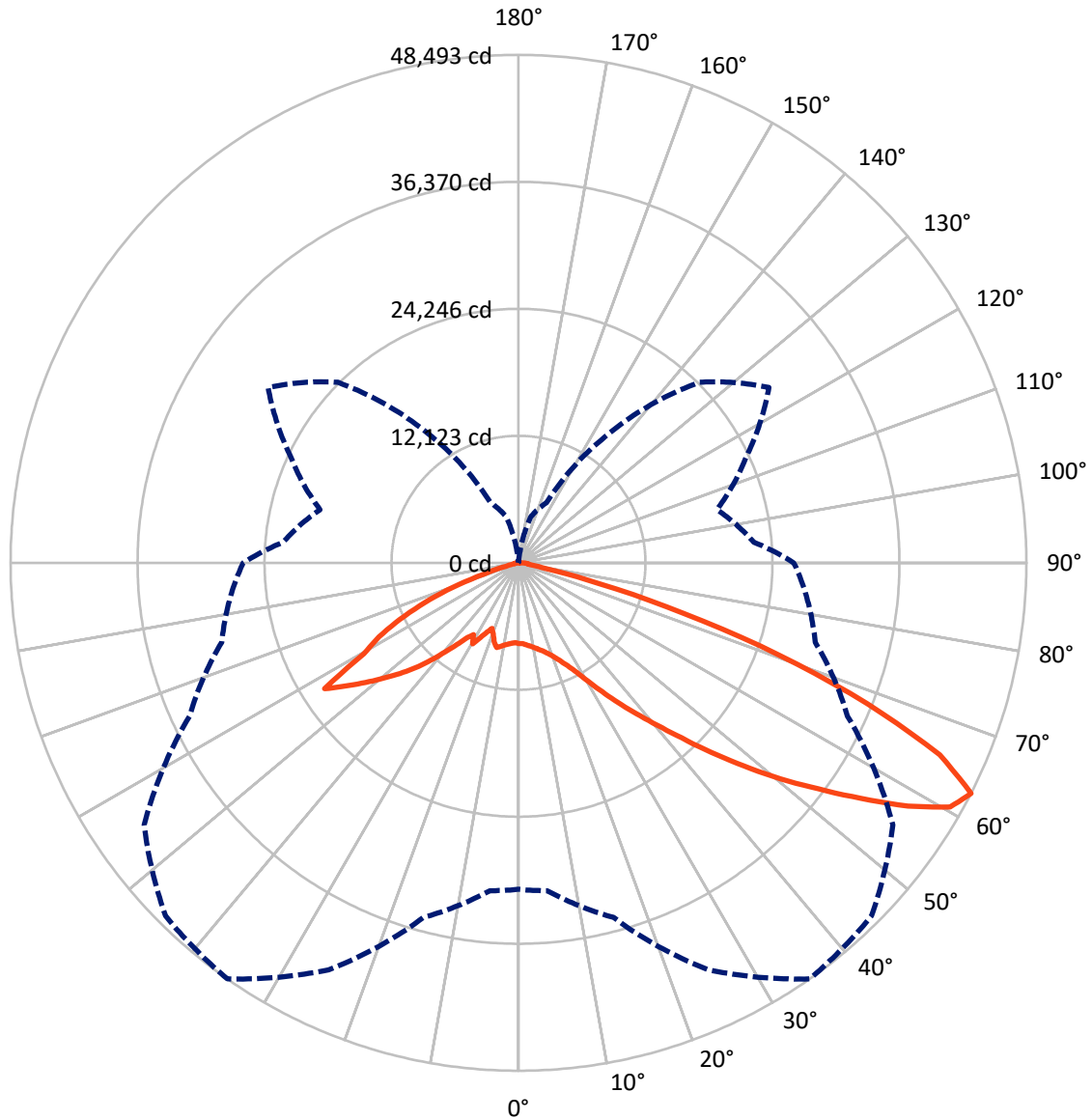
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 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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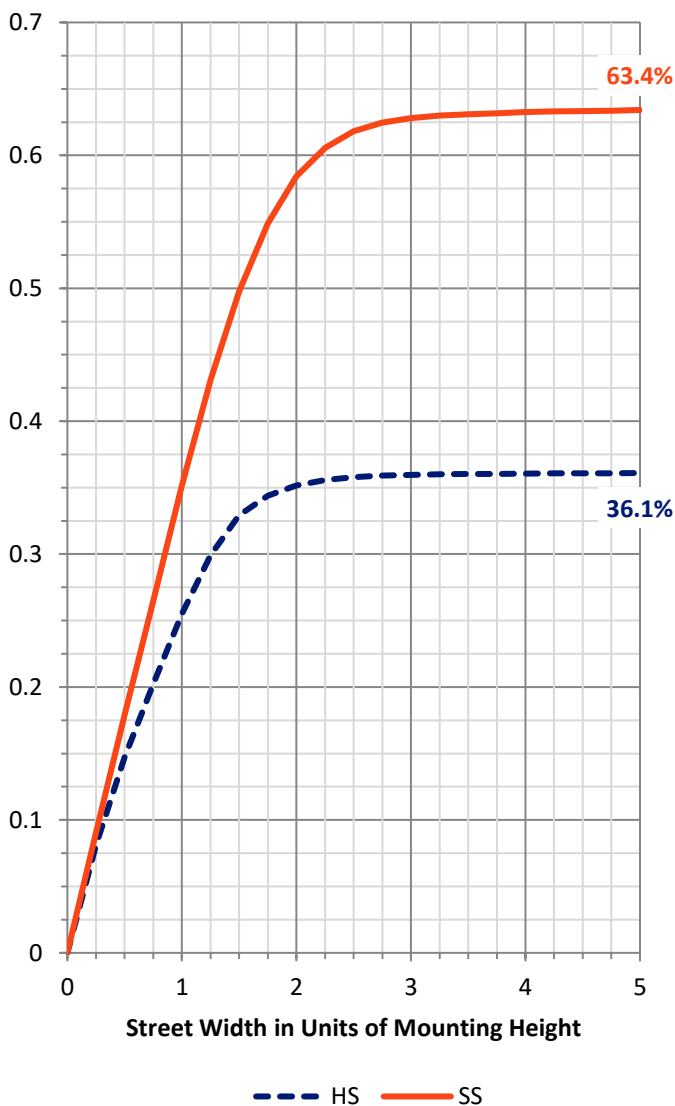
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 31304.5 | 0.1 | 31304.6 |
| | % Fixture | 36.3 | 0.0 | 36.3 |
| Street Side | Lumens | 54898.5 | 40.9 | 54939.4 |
| | % Fixture | 63.7 | 0.0 | 63.7 |
| Total | Lumens | 86203.1 | 40.9 | 86244.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 758.7 | 0.9 |
| 10°-20° | 2452.0 | 2.8 |
| 20°-30° | 4717.2 | 5.5 |
| 30°-40° | 9410.4 | 10.9 |
| 40°-50° | 17182.8 | 19.9 |
| 50°-60° | 25677.1 | 29.8 |
| 60°-70° | 21515.0 | 24.9 |
| 70°-80° | 4026.3 | 4.7 |
| 80°-90° | 463.5 | 0.5 |
| 90°-100° | 36.9 | 0.0 |
| 100°-110° | 4.0 | 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° | 86203.1 | 100.0 |
| 0°-180° | 86244.0 | 100.0 |

Coefficient of Utilization

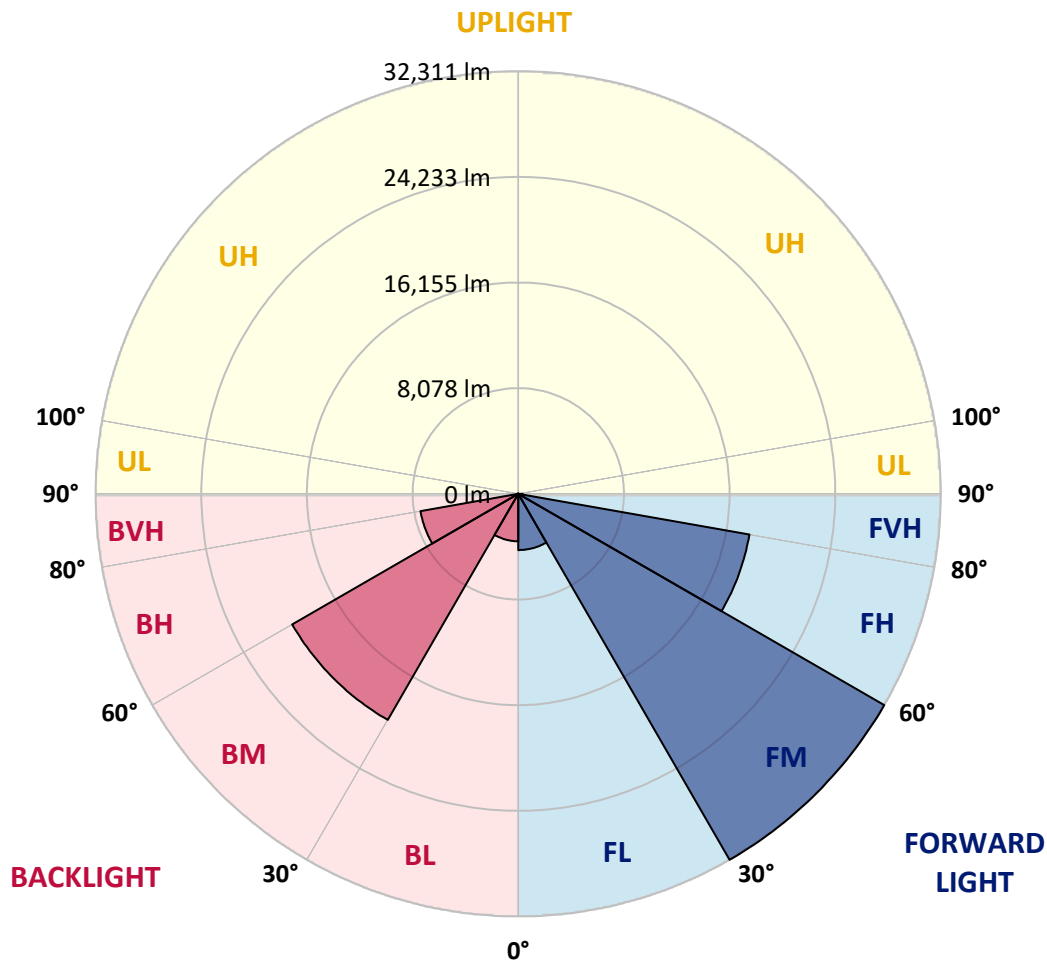


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|-------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4300.3 | 5.0 | | | |
| FM (30°-60°) | 32310.9 | 37.5 | | | |
| FH (60°-80°) | 17949.8 | 20.8 | | | G5 |
| FVH (80°-90°) | 337.5 | 0.4 | | | G3/500 |
| BL (0°-30°) | 3627.6 | 4.2 | B4/5000 | | |
| BM (30°-60°) | 19959.4 | 23.1 | B5 | | |
| BH (60°-80°) | 7591.5 | 8.8 | B5 | | G5 |
| BVH (80°-90°) | 126.0 | 0.1 | | | G2/225 |
| UL (90°-100°) | 36.9 | 0.0 | | U2/50 | |
| UH (100°-180°) | 4.1 | 0.0 | | U1/10 | |

BUG Rating: B5-U2-G5
 Type III Short





REPORT NUMBER: P579447

CATALOG NUMBER: CST-CA10-760-730-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 |
| 2.5° | 7881.7 | 7817.0 | 7826.7 | 7872.0 | 7729.7 | 7787.9 | 7726.5 | 7784.7 | 7765.3 | 7791.2 | 7810.6 |
| 5° | 7994.8 | 7914.0 | 7920.5 | 7972.2 | 7862.3 | 7910.8 | 7849.4 | 7888.2 | 7855.8 | 7891.4 | 7894.6 |
| 7.5° | 8150.0 | 8082.1 | 8072.4 | 8124.2 | 8030.4 | 8072.4 | 8011.0 | 8030.4 | 7998.1 | 8040.1 | 8027.2 |
| 10° | 8356.9 | 8295.5 | 8279.3 | 8314.9 | 8240.5 | 8263.2 | 8198.5 | 8224.4 | 8175.9 | 8224.4 | 8201.7 |
| 12.5° | 8586.4 | 8505.6 | 8508.9 | 8547.7 | 8473.3 | 8489.5 | 8437.7 | 8466.8 | 8408.6 | 8460.4 | 8444.2 |
| 15° | 8858.0 | 8741.6 | 8764.3 | 8806.3 | 8735.2 | 8783.7 | 8722.2 | 8764.3 | 8709.3 | 8764.3 | 8744.9 |
| 17.5° | 9210.4 | 9077.8 | 9094.0 | 9161.9 | 9103.7 | 9181.3 | 9110.2 | 9161.9 | 9136.0 | 9171.6 | 9165.1 |
| 20° | 9656.5 | 9569.2 | 9553.1 | 9637.1 | 9553.1 | 9650.1 | 9611.3 | 9701.8 | 9708.2 | 9743.8 | 9760.0 |
| 22.5° | 10251.4 | 10193.2 | 10154.4 | 10212.6 | 10138.2 | 10206.1 | 10261.1 | 10416.2 | 10474.4 | 10568.2 | 10574.7 |
| 25° | 11043.4 | 11040.2 | 10952.9 | 10956.1 | 10862.4 | 10952.9 | 11108.1 | 11350.5 | 11505.7 | 11625.3 | 11580.1 |
| 27.5° | 12113.5 | 12132.9 | 12000.3 | 11948.6 | 11838.7 | 11974.5 | 12294.5 | 12595.2 | 12876.4 | 13044.5 | 13044.5 |
| 30° | 13510.1 | 13529.5 | 13335.5 | 13232.1 | 13131.8 | 13367.8 | 13749.3 | 14140.5 | 14541.4 | 14783.8 | 14728.9 |
| 32.5° | 15359.3 | 15297.8 | 15019.8 | 14832.3 | 14661.0 | 14932.5 | 15372.2 | 15815.1 | 16361.5 | 16710.6 | 16668.6 |
| 35° | 17602.9 | 17379.8 | 17101.8 | 16752.6 | 16384.1 | 16597.5 | 17011.3 | 17567.3 | 18327.0 | 18850.7 | 18718.2 |
| 37.5° | 20208.5 | 19988.7 | 19513.5 | 18912.2 | 18268.8 | 18294.7 | 18621.2 | 19584.6 | 20535.1 | 20961.8 | 20871.3 |
| 40° | 22914.4 | 22743.1 | 22306.7 | 21534.0 | 20370.2 | 20101.9 | 20638.5 | 21799.1 | 22707.5 | 23244.2 | 23092.2 |
| 42.5° | 25672.1 | 25497.5 | 25167.7 | 24391.9 | 22849.8 | 22203.2 | 22762.5 | 24026.5 | 24996.4 | 25523.4 | 25348.8 |
| 45° | 28423.2 | 28222.8 | 27960.9 | 27275.6 | 25804.6 | 24857.4 | 25171.0 | 26331.6 | 27217.4 | 27815.4 | 27456.6 |
| 47.5° | 30841.4 | 30708.8 | 30531.0 | 30253.0 | 28966.3 | 27918.9 | 27896.3 | 28662.4 | 29273.5 | 29667.9 | 29228.2 |
| 50° | 32946.0 | 32852.2 | 32952.4 | 32894.2 | 32425.5 | 31471.8 | 30886.6 | 30834.9 | 31032.1 | 31319.9 | 30692.7 |
| 52.5° | 34834.0 | 34669.1 | 35040.9 | 35503.2 | 35849.1 | 35655.1 | 33760.7 | 32697.0 | 32480.4 | 32577.4 | 31866.2 |
| 55° | 36379.3 | 36301.7 | 36925.6 | 38086.2 | 39686.5 | 40113.2 | 36712.2 | 34507.4 | 33708.9 | 33657.2 | 32849.0 |
| 57.5° | 37323.3 | 37433.2 | 38681.0 | 40892.3 | 43827.7 | 43963.5 | 40336.3 | 36443.9 | 34905.1 | 34349.0 | 33418.0 |
| 60° | 35820.0 | 36243.5 | 38373.9 | 42935.5 | 47341.9 | 47425.9 | 42996.9 | 36799.5 | 33411.5 | 32166.9 | 31012.7 |
| 62.5° | 31171.1 | 31423.3 | 35047.3 | 42867.6 | 48492.7 | 47671.6 | 43630.5 | 34652.9 | 29334.9 | 27349.9 | 26283.1 |
| 65° | 21957.5 | 22429.5 | 26312.2 | 38567.9 | 44189.8 | 44293.3 | 40025.9 | 29962.1 | 23425.2 | 21230.1 | 20541.5 |
| 67.5° | 13261.2 | 13713.7 | 17848.6 | 27841.3 | 35923.4 | 37084.0 | 33388.9 | 22684.9 | 16797.9 | 14024.1 | 13329.0 |
| 70° | 4306.2 | 4797.5 | 8133.9 | 16409.9 | 26425.3 | 29208.8 | 25125.7 | 14764.4 | 8796.6 | 6161.8 | 5415.0 |
| 72.5° | 1635.8 | 1784.5 | 2647.7 | 7167.2 | 16458.4 | 19500.6 | 15540.3 | 7406.5 | 2725.3 | 1622.9 | 1425.7 |
| 75° | 1063.6 | 1086.2 | 1238.2 | 2511.9 | 7936.6 | 10736.3 | 7490.5 | 2169.2 | 1092.7 | 969.9 | 898.7 |
| 77.5° | 914.9 | 931.1 | 995.7 | 1251.1 | 2528.1 | 4105.7 | 2149.8 | 1108.9 | 911.7 | 808.2 | 759.7 |
| 80° | 863.2 | 869.6 | 911.7 | 1060.4 | 1183.2 | 1370.7 | 1034.5 | 927.8 | 795.3 | 759.7 | 724.2 |
| 82.5° | 817.9 | 840.5 | 863.2 | 963.4 | 960.2 | 986.0 | 830.8 | 727.4 | 675.7 | 711.2 | 698.3 |
| 85° | 763.0 | 775.9 | 792.0 | 859.9 | 782.3 | 662.7 | 640.1 | 501.1 | 488.2 | 520.5 | 488.2 |
| 87.5° | 536.7 | 569.0 | 549.6 | 578.7 | 543.1 | 423.5 | 358.8 | 284.5 | 226.3 | 187.5 | 181.0 |
| 90° | 219.8 | 223.1 | 210.1 | 194.0 | 171.3 | 142.2 | 113.1 | 71.1 | 32.3 | 16.2 | 6.5 |
| 92.5° | 171.3 | 171.3 | 164.9 | 148.7 | 129.3 | 106.7 | 80.8 | 45.3 | 22.6 | 9.7 | 3.2 |
| 95° | 106.7 | 109.9 | 103.5 | 93.8 | 80.8 | 64.7 | 48.5 | 25.9 | 16.2 | 6.5 | 3.2 |
| 97.5° | 67.9 | 67.9 | 61.4 | 55.0 | 45.3 | 32.3 | 22.6 | 19.4 | 12.9 | 6.5 | 0.0 |
| 100° | 38.8 | 38.8 | 35.6 | 29.1 | 22.6 | 16.2 | 16.2 | 12.9 | 9.7 | 3.2 | 0.0 |
| 102.5° | 22.6 | 22.6 | 16.2 | 12.9 | 9.7 | 9.7 | 9.7 | 9.7 | 6.5 | 3.2 | 0.0 |
| 105° | 9.7 | 9.7 | 6.5 | 6.5 | 3.2 | 3.2 | 6.5 | 6.5 | 6.5 | 3.2 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 6.5 | 6.5 | 3.2 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 6.5 | 3.2 | 3.2 |



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 CATALOG NUMBER: CST-CA10-760-730-U-T5N-HSS-HM-EX90

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-CA10-760-730-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 | 7716.8 |
| 2.5° | 7797.6 | 7739.4 | 7749.1 | 7694.2 | 7684.5 | 7629.5 | 7739.4 | 7752.4 | 7720.0 | 7749.1 |
| 5° | 7888.2 | 7817.0 | 7839.7 | 7778.2 | 7768.5 | 7694.2 | 7791.2 | 7784.7 | 7758.8 | 7787.9 |
| 7.5° | 8023.9 | 7949.6 | 7962.5 | 7894.6 | 7881.7 | 7800.9 | 7891.4 | 7862.3 | 7836.4 | 7872.0 |
| 10° | 8214.7 | 8130.6 | 8137.1 | 8049.8 | 8059.5 | 7952.8 | 8062.7 | 8011.0 | 7978.7 | 8027.2 |
| 12.5° | 8444.2 | 8350.5 | 8353.7 | 8263.2 | 8259.9 | 8156.5 | 8253.5 | 8224.4 | 8175.9 | 8250.2 |
| 15° | 8741.6 | 8634.9 | 8625.2 | 8505.6 | 8473.3 | 8356.9 | 8447.4 | 8392.5 | 8360.2 | 8466.8 |
| 17.5° | 9158.7 | 9039.0 | 9003.5 | 8858.0 | 8253.5 | 7904.3 | 8389.2 | 8554.1 | 8353.7 | 8321.4 |
| 20° | 9714.7 | 9614.5 | 9533.7 | 9313.8 | 8298.7 | 7209.3 | 6404.3 | 6410.7 | 7257.7 | 7648.9 |
| 22.5° | 10468.0 | 10348.4 | 10196.4 | 9882.8 | 7613.4 | 6753.4 | 6756.7 | 6747.0 | 5790.0 | 5385.9 |
| 25° | 11499.2 | 11353.8 | 11043.4 | 9271.8 | 8082.1 | 7286.8 | 7267.4 | 6320.2 | 5793.3 | 5822.4 |
| 27.5° | 12892.6 | 12595.2 | 10778.3 | 10044.5 | 8916.2 | 7978.7 | 7513.1 | 6362.2 | 6426.9 | 6472.2 |
| 30° | 14664.2 | 13468.1 | 11648.0 | 11211.5 | 9918.4 | 8896.8 | 6947.4 | 7105.8 | 7235.1 | 7264.2 |
| 32.5° | 16481.1 | 13506.8 | 13038.1 | 12575.8 | 11153.3 | 8095.1 | 7830.0 | 8130.6 | 8266.4 | 8282.6 |
| 35° | 16464.9 | 15162.1 | 14557.5 | 14037.0 | 12297.8 | 8660.8 | 8828.9 | 9291.2 | 9637.1 | 9621.0 |
| 37.5° | 17425.1 | 16988.6 | 16267.7 | 15608.2 | 11069.3 | 9756.7 | 10057.4 | 10581.1 | 11001.4 | 10988.5 |
| 40° | 19432.7 | 18928.3 | 18165.4 | 16781.7 | 12255.7 | 11011.1 | 11431.4 | 11993.9 | 12291.3 | 12307.5 |
| 42.5° | 21330.3 | 20913.3 | 20134.2 | 15679.3 | 13739.6 | 12520.8 | 12902.3 | 13280.5 | 13464.8 | 13523.0 |
| 45° | 23218.3 | 22920.9 | 20328.2 | 17328.1 | 15533.8 | 14040.3 | 14292.4 | 14363.6 | 14557.5 | 14534.9 |
| 47.5° | 24750.7 | 24420.9 | 19545.8 | 19397.1 | 17709.6 | 15482.1 | 15462.7 | 15369.0 | 15440.1 | 15456.3 |
| 50° | 26150.5 | 22177.4 | 21117.0 | 21611.6 | 19991.9 | 16953.1 | 16584.5 | 16393.8 | 16296.8 | 16254.8 |
| 52.5° | 27256.2 | 22183.8 | 22584.7 | 23900.5 | 22568.5 | 18550.1 | 17758.0 | 17221.4 | 15078.0 | 16755.9 |
| 55° | 28196.9 | 23098.7 | 23974.8 | 26347.7 | 24789.5 | 20221.5 | 18818.4 | 17861.5 | 10063.9 | 8069.2 |
| 57.5° | 28736.8 | 23793.8 | 25352.0 | 28639.8 | 26729.2 | 22080.4 | 17324.8 | 14981.0 | 5689.8 | 5683.4 |
| 60° | 26651.6 | 22545.9 | 25313.2 | 29842.4 | 26169.9 | 17127.6 | 7054.1 | 5903.2 | 1076.5 | 1105.6 |
| 62.5° | 22562.1 | 19613.7 | 24007.1 | 29182.9 | 24372.5 | 15068.3 | 6326.7 | 4545.4 | 35.6 | 29.1 |
| 65° | 17480.0 | 15647.0 | 20215.0 | 25668.8 | 22174.1 | 12572.6 | 4716.7 | 3274.9 | 9.7 | 0.0 |
| 67.5° | 11434.6 | 11027.3 | 14916.4 | 21285.1 | 18084.6 | 9740.6 | 3165.0 | 1567.9 | 6.5 | 0.0 |
| 70° | 4875.1 | 5647.8 | 9449.6 | 15433.6 | 13843.1 | 6701.7 | 1525.9 | 565.7 | 3.2 | 0.0 |
| 72.5° | 1364.3 | 1807.2 | 4205.9 | 9042.3 | 8706.1 | 3523.8 | 594.8 | 239.2 | 3.2 | 0.0 |
| 75° | 808.2 | 695.1 | 1205.9 | 3607.9 | 4238.3 | 1238.2 | 274.8 | 184.3 | 3.2 | 0.0 |
| 77.5° | 672.4 | 543.1 | 691.8 | 921.4 | 1283.4 | 446.1 | 232.8 | 164.9 | 0.0 | 0.0 |
| 80° | 630.4 | 481.7 | 598.1 | 643.3 | 633.6 | 371.8 | 229.5 | 164.9 | 0.0 | 0.0 |
| 82.5° | 598.1 | 420.3 | 494.6 | 494.6 | 530.2 | 342.7 | 216.6 | 161.6 | 0.0 | 0.0 |
| 85° | 449.4 | 294.2 | 329.8 | 426.7 | 381.5 | 242.5 | 158.4 | 129.3 | 0.0 | 0.0 |
| 87.5° | 171.3 | 106.7 | 129.3 | 135.8 | 109.9 | 55.0 | 12.9 | 12.9 | 0.0 | 0.0 |
| 90° | 3.2 | 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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|--------|-----|------|------|------|------|------|------|------|------|------|
| 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 |

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