

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: P579439

Luminaire Tested: **CST-CA10-630-730-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-730-U-T5N-HSS-HM-EX120
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: 71167 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

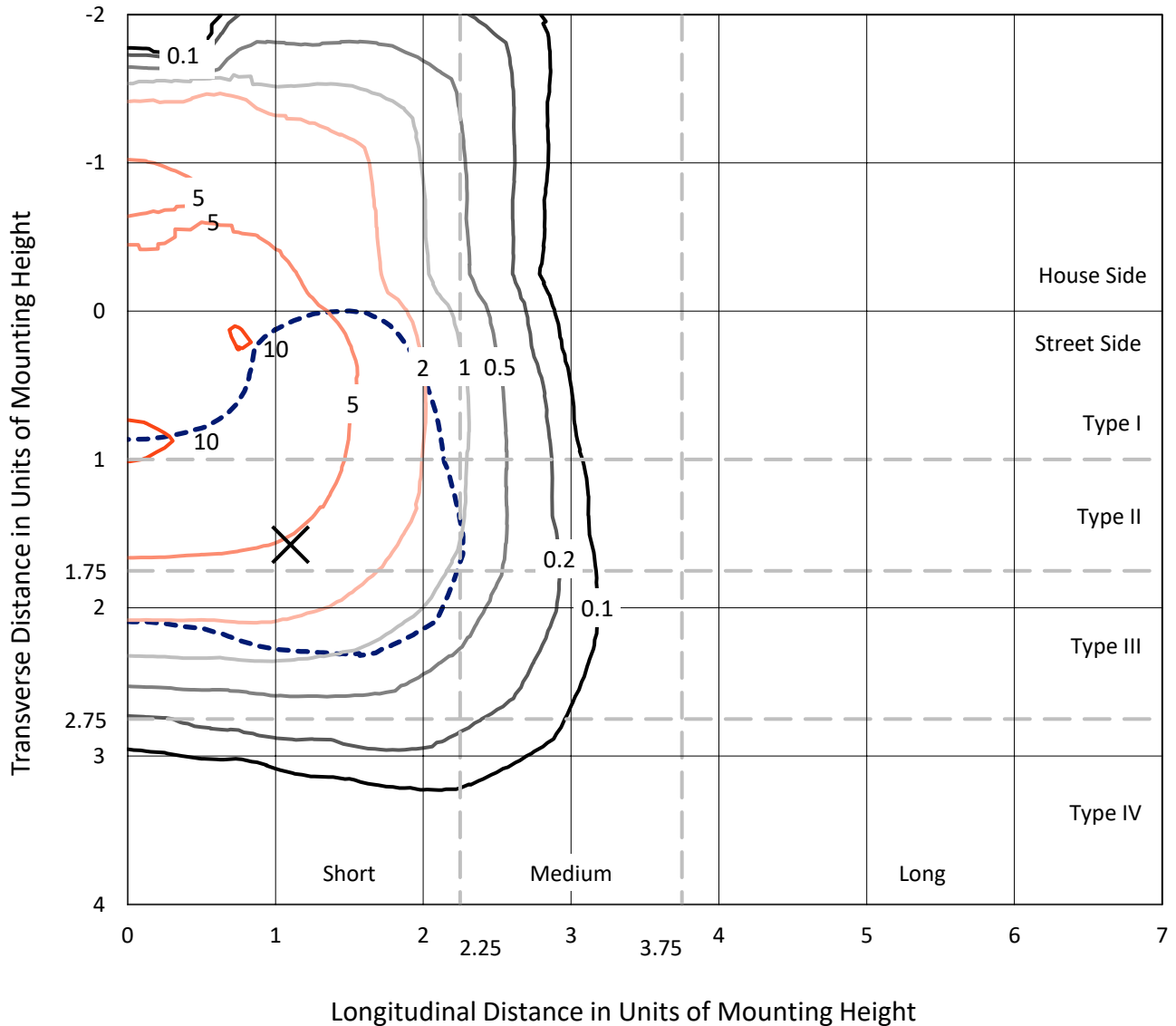
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

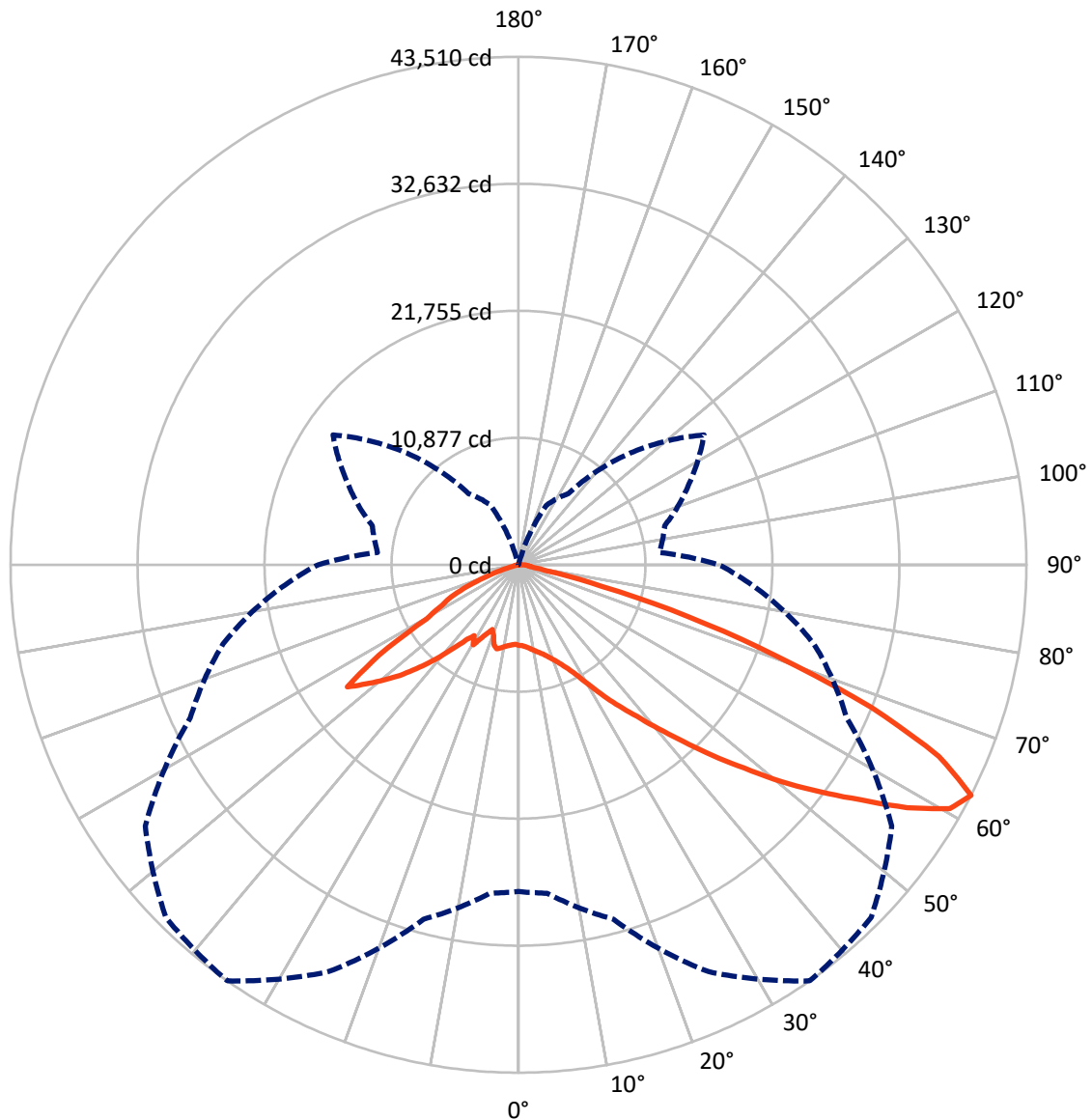
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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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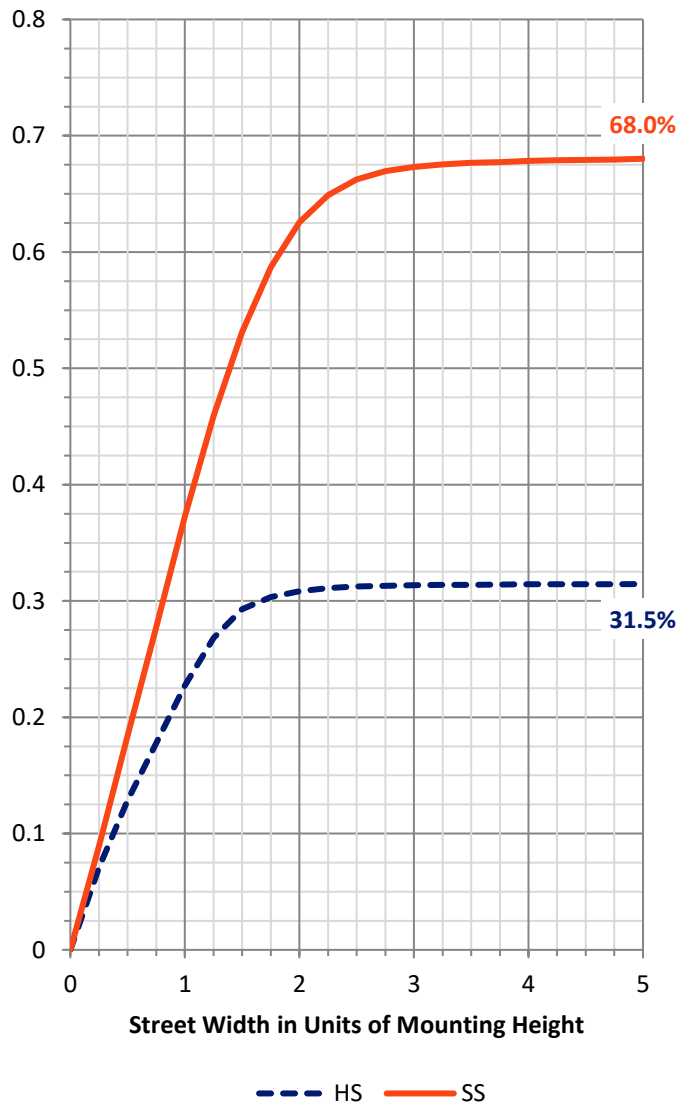
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22514.2 | 0.0 | 22514.2 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 48612.2 | 40.6 | 48652.8 |
| | % Fixture | 68.3 | 0.1 | 68.4 |
| Total | Lumens | 71126.3 | 40.7 | 71167.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 681.2 | 1.0 |
| 10°-20° | 2190.2 | 3.1 |
| 20°-30° | 4066.8 | 5.7 |
| 30°-40° | 8018.1 | 11.3 |
| 40°-50° | 14393.4 | 20.2 |
| 50°-60° | 20922.3 | 29.4 |
| 60°-70° | 17194.8 | 24.2 |
| 70°-80° | 3268.4 | 4.6 |
| 80°-90° | 391.3 | 0.5 |
| 90°-100° | 37.0 | 0.1 |
| 100°-110° | 3.6 | 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° | 71126.3 | 99.9 |
| 0°-180° | 71167.0 | 100.0 |

Coefficient of Utilization

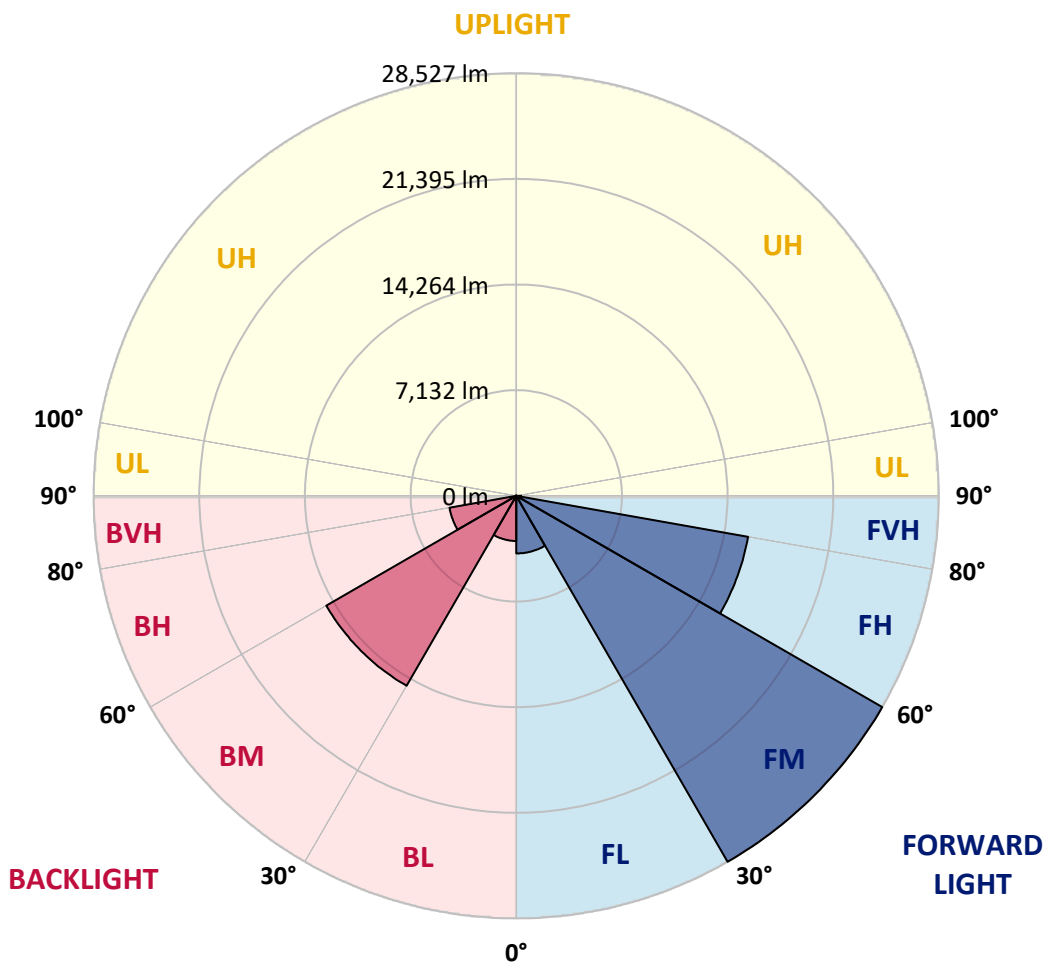


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3889.7 | 5.5 | | | |
| FM (30°-60°) | 28527.0 | 40.1 | | | |
| FH (60°-80°) | 15886.1 | 22.3 | | | G5 |
| FVH (80°-90°) | 309.4 | 0.4 | | | G3/500 |
| BL (0°-30°) | 3048.5 | 4.3 | B4/5000 | | |
| BM (30°-60°) | 14806.7 | 20.8 | B5 | | |
| BH (60°-80°) | 4577.1 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 81.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 37.0 | 0.1 | | U2/50 | |
| UH (100°-180°) | 3.6 | 0.0 | | U1/10 | |

BUG Rating: B5-U2-G5
 Type III Short





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CATALOG NUMBER: CST-CA10-630-730-U-T5N-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 |
| 2.5° | 7084.3 | 7026.5 | 7032.2 | 7075.6 | 6945.5 | 6988.9 | 6928.1 | 6980.2 | 6957.0 | 6980.2 | 6994.6 |
| 5° | 7226.1 | 7153.7 | 7150.8 | 7194.2 | 7090.1 | 7116.1 | 7046.7 | 7081.4 | 7049.6 | 7078.5 | 7078.5 |
| 7.5° | 7399.6 | 7338.9 | 7324.4 | 7359.1 | 7266.6 | 7278.1 | 7208.7 | 7223.2 | 7185.6 | 7223.2 | 7194.2 |
| 10° | 7616.6 | 7561.6 | 7538.5 | 7555.8 | 7471.9 | 7477.7 | 7402.5 | 7408.3 | 7353.3 | 7385.2 | 7362.0 |
| 12.5° | 7845.1 | 7769.9 | 7758.3 | 7787.2 | 7700.5 | 7688.9 | 7625.3 | 7631.0 | 7570.3 | 7599.2 | 7581.9 |
| 15° | 8082.3 | 8004.2 | 8007.1 | 8036.0 | 7949.2 | 7955.0 | 7888.5 | 7900.1 | 7839.3 | 7868.2 | 7845.1 |
| 17.5° | 8397.6 | 8319.5 | 8313.7 | 8365.8 | 8293.5 | 8316.6 | 8247.2 | 8261.7 | 8218.3 | 8224.1 | 8198.0 |
| 20° | 8848.9 | 8747.6 | 8727.4 | 8802.6 | 8707.1 | 8736.1 | 8698.5 | 8747.6 | 8730.3 | 8715.8 | 8695.6 |
| 22.5° | 9386.9 | 9308.8 | 9268.3 | 9326.2 | 9213.4 | 9268.3 | 9288.6 | 9389.8 | 9415.9 | 9398.5 | 9080.3 |
| 25° | 10107.2 | 10066.7 | 10026.2 | 10000.2 | 9864.2 | 9951.0 | 10055.2 | 10222.9 | 10332.9 | 10376.2 | 9933.7 |
| 27.5° | 11079.2 | 11099.4 | 10923.0 | 10894.0 | 10740.7 | 10876.7 | 11064.7 | 11336.6 | 11559.4 | 11640.4 | 11044.5 |
| 30° | 12328.8 | 12354.9 | 12114.8 | 12045.4 | 11952.8 | 12068.5 | 12418.5 | 12716.5 | 13046.2 | 13182.2 | 12386.7 |
| 32.5° | 13989.3 | 13966.1 | 13613.2 | 13480.2 | 13396.3 | 13442.6 | 13809.9 | 14217.8 | 14588.1 | 14894.7 | 13917.0 |
| 35° | 16017.1 | 15944.8 | 15568.7 | 15201.3 | 14868.7 | 15010.4 | 15279.4 | 15774.1 | 16335.3 | 16786.6 | 15427.0 |
| 37.5° | 18371.8 | 18302.3 | 17729.6 | 17130.8 | 16474.1 | 16534.9 | 16775.0 | 17582.1 | 18305.2 | 18423.8 | 15169.5 |
| 40° | 20804.6 | 20775.6 | 20234.7 | 19473.9 | 18452.8 | 18166.4 | 18484.6 | 19468.1 | 20231.8 | 18163.5 | 15768.3 |
| 42.5° | 23234.5 | 23095.6 | 22791.9 | 22031.1 | 20671.5 | 20040.9 | 20469.0 | 21452.5 | 22274.1 | 19042.9 | 17156.8 |
| 45° | 25684.6 | 25542.9 | 25285.4 | 24727.1 | 23312.6 | 22395.6 | 22520.0 | 23610.5 | 24354.0 | 20691.8 | 18603.2 |
| 47.5° | 27860.0 | 27755.8 | 27570.7 | 27258.3 | 25997.0 | 25166.8 | 24926.7 | 25690.4 | 26196.6 | 22031.1 | 19714.0 |
| 50° | 29734.4 | 29644.8 | 29717.1 | 29613.0 | 29242.7 | 28372.0 | 27579.4 | 27530.2 | 27773.2 | 23222.9 | 20735.1 |
| 52.5° | 31383.3 | 31261.8 | 31571.3 | 31938.7 | 32280.1 | 32086.2 | 30168.4 | 29274.5 | 29054.7 | 24116.8 | 21420.7 |
| 55° | 32745.8 | 32702.4 | 33234.7 | 34226.9 | 35525.7 | 36034.8 | 32936.7 | 30885.8 | 30200.2 | 24874.6 | 21484.4 |
| 57.5° | 33561.5 | 33665.7 | 34791.0 | 36711.7 | 39251.6 | 39491.7 | 36176.6 | 32598.3 | 31209.7 | 25334.6 | 21788.1 |
| 60° | 32167.2 | 32520.2 | 34545.1 | 38574.7 | 42422.0 | 42526.1 | 38505.2 | 32939.6 | 29887.8 | 23679.9 | 20165.3 |
| 62.5° | 27990.1 | 28244.7 | 31429.6 | 38456.1 | 43509.7 | 42717.1 | 39025.9 | 31013.0 | 26193.7 | 20087.2 | 17151.0 |
| 65° | 19777.6 | 20072.7 | 23911.4 | 34678.1 | 39584.2 | 39613.1 | 35748.4 | 26818.6 | 20937.6 | 15551.4 | 13243.0 |
| 67.5° | 11929.6 | 12407.0 | 16043.1 | 25175.5 | 32592.5 | 33185.5 | 29824.1 | 20304.1 | 14984.4 | 10153.5 | 8571.2 |
| 70° | 3913.9 | 4350.7 | 7324.4 | 14900.5 | 23494.8 | 26034.6 | 22398.5 | 13193.8 | 7824.9 | 4292.8 | 3456.8 |
| 72.5° | 1550.5 | 1750.1 | 2580.3 | 6589.7 | 15140.6 | 17382.5 | 13801.3 | 6375.6 | 2626.6 | 1139.7 | 992.2 |
| 75° | 1035.6 | 1055.8 | 1191.8 | 2244.8 | 7408.3 | 9505.5 | 6653.3 | 1854.2 | 974.9 | 711.6 | 624.8 |
| 77.5° | 902.5 | 905.4 | 966.2 | 1183.1 | 2412.5 | 3644.8 | 1915.0 | 995.1 | 807.1 | 584.3 | 517.8 |
| 80° | 827.3 | 838.9 | 876.5 | 1009.6 | 1105.0 | 1238.1 | 945.9 | 830.2 | 700.0 | 538.0 | 488.9 |
| 82.5° | 792.6 | 801.3 | 824.4 | 914.1 | 893.9 | 928.6 | 763.7 | 659.5 | 590.1 | 494.7 | 468.6 |
| 85° | 723.2 | 737.6 | 752.1 | 807.1 | 734.8 | 636.4 | 590.1 | 442.6 | 422.3 | 373.2 | 344.2 |
| 87.5° | 546.7 | 543.8 | 529.4 | 538.0 | 491.8 | 402.1 | 332.7 | 248.8 | 202.5 | 167.8 | 138.9 |
| 90° | 228.5 | 231.4 | 222.7 | 211.2 | 185.1 | 153.3 | 115.7 | 69.4 | 34.7 | 11.6 | 5.8 |
| 92.5° | 173.6 | 176.5 | 170.7 | 153.3 | 133.1 | 107.0 | 78.1 | 40.5 | 23.1 | 8.7 | 2.9 |
| 95° | 107.0 | 109.9 | 104.1 | 92.6 | 81.0 | 60.7 | 40.5 | 26.0 | 14.5 | 5.8 | 0.0 |
| 97.5° | 63.6 | 66.5 | 60.7 | 55.0 | 43.4 | 28.9 | 23.1 | 17.4 | 11.6 | 5.8 | 0.0 |
| 100° | 37.6 | 37.6 | 34.7 | 28.9 | 20.2 | 17.4 | 14.5 | 11.6 | 8.7 | 2.9 | 0.0 |
| 102.5° | 17.4 | 17.4 | 17.4 | 11.6 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 2.9 | 0.0 |
| 105° | 5.8 | 5.8 | 2.9 | 2.9 | 2.9 | 5.8 | 5.8 | 5.8 | 5.8 | 2.9 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 5.8 | 5.8 | 2.9 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 2.9 | 2.9 | 0.0 |



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 CATALOG NUMBER: CST-CA10-630-730-U-T5N-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-CA10-630-730-U-T5N-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 | 6907.9 |
| 2.5° | 6980.2 | 6925.2 | 6933.9 | 6884.7 | 6873.1 | 6821.1 | 6913.6 | 6922.3 | 6896.3 | 6922.3 |
| 5° | 7067.0 | 7000.4 | 7017.8 | 6962.8 | 6948.4 | 6876.0 | 6951.2 | 6945.5 | 6925.2 | 6951.2 |
| 7.5° | 7194.2 | 7119.0 | 7127.7 | 7064.1 | 7049.6 | 6968.6 | 7038.0 | 7017.8 | 6994.6 | 7026.5 |
| 10° | 7356.2 | 7283.9 | 7286.8 | 7200.0 | 7191.3 | 7098.8 | 7188.5 | 7150.8 | 7116.1 | 7162.4 |
| 12.5° | 7581.9 | 7480.6 | 7471.9 | 7376.5 | 7373.6 | 7278.1 | 7370.7 | 7338.9 | 7292.6 | 7364.9 |
| 15° | 7842.2 | 7706.3 | 7671.5 | 7550.0 | 7547.2 | 7445.9 | 7538.5 | 7489.3 | 7466.2 | 7552.9 |
| 17.5° | 8180.7 | 8010.0 | 7746.8 | 7333.1 | 7145.1 | 7176.9 | 7503.8 | 7622.4 | 7312.8 | 7359.1 |
| 20° | 8386.0 | 7558.7 | 7174.0 | 7003.3 | 6913.6 | 6398.7 | 5701.6 | 5759.4 | 6445.0 | 6771.9 |
| 22.5° | 8038.9 | 7793.0 | 7651.3 | 7411.2 | 6161.5 | 5985.1 | 6025.6 | 6014.0 | 5128.8 | 4865.6 |
| 25° | 8762.1 | 8530.7 | 8273.2 | 6792.1 | 6534.7 | 6459.5 | 6479.7 | 5649.5 | 5166.4 | 5186.7 |
| 27.5° | 9803.5 | 9505.5 | 7874.0 | 7231.8 | 7179.8 | 7069.9 | 6670.7 | 5672.7 | 5733.4 | 5773.9 |
| 30° | 11119.7 | 10060.9 | 8386.0 | 8105.5 | 8001.3 | 7882.7 | 6190.5 | 6338.0 | 6450.8 | 6575.2 |
| 32.5° | 12392.5 | 9786.1 | 9366.7 | 9074.5 | 8912.5 | 7156.6 | 6983.1 | 7255.0 | 7367.8 | 7474.8 |
| 35° | 12276.8 | 10963.5 | 10419.6 | 10049.4 | 9745.6 | 7723.6 | 7876.9 | 8290.6 | 8588.5 | 8585.6 |
| 37.5° | 12595.0 | 12245.0 | 11617.2 | 11148.6 | 8458.4 | 8652.2 | 8973.3 | 9444.8 | 9806.4 | 9803.5 |
| 40° | 13922.7 | 13543.8 | 12953.7 | 11947.0 | 9372.5 | 9823.7 | 10263.4 | 10706.0 | 10966.4 | 10986.6 |
| 42.5° | 15241.8 | 14949.7 | 14417.4 | 10552.7 | 10492.0 | 11116.8 | 11576.7 | 11857.3 | 12016.4 | 12071.4 |
| 45° | 16555.1 | 16280.3 | 14165.7 | 11672.2 | 11857.3 | 12476.4 | 12757.0 | 12811.9 | 12982.6 | 12976.8 |
| 47.5° | 17599.4 | 17365.1 | 13031.8 | 13002.9 | 13462.8 | 13890.9 | 13801.3 | 13731.8 | 13775.2 | 13798.4 |
| 50° | 18562.7 | 15117.4 | 14050.0 | 14472.4 | 15172.4 | 15224.5 | 14851.3 | 11764.8 | 14564.9 | 14515.8 |
| 52.5° | 17243.6 | 14753.0 | 14998.8 | 15988.2 | 17180.0 | 16575.4 | 15846.4 | 10312.6 | 13659.5 | 14958.3 |
| 55° | 15088.5 | 15337.3 | 15892.7 | 17553.1 | 18730.5 | 18013.1 | 16795.2 | 10619.2 | 9065.8 | 7379.4 |
| 57.5° | 15389.4 | 15782.8 | 16838.6 | 19132.6 | 20159.5 | 14267.0 | 15675.7 | 7486.4 | 5068.1 | 5065.2 |
| 60° | 14330.6 | 14926.5 | 16818.4 | 19841.3 | 16317.9 | 9141.1 | 6280.1 | 170.7 | 983.5 | 974.9 |
| 62.5° | 12114.8 | 12962.4 | 16046.0 | 19392.9 | 13517.8 | 7428.5 | 5594.6 | 14.5 | 5.8 | 5.8 |
| 65° | 9369.6 | 10367.6 | 13378.9 | 16792.3 | 11975.9 | 6398.7 | 4154.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 6144.2 | 7069.9 | 10046.5 | 13948.8 | 9942.3 | 4836.7 | 2791.5 | 0.0 | 0.0 | 0.0 |
| 70° | 2560.1 | 3702.7 | 6242.5 | 10081.2 | 7312.8 | 3167.5 | 1324.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 740.5 | 1128.2 | 2811.7 | 6019.8 | 4538.7 | 1657.5 | 491.8 | 0.0 | 0.0 | 0.0 |
| 75° | 488.9 | 514.9 | 850.5 | 2421.2 | 2207.2 | 607.5 | 199.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 410.8 | 422.3 | 540.9 | 676.9 | 708.7 | 240.1 | 162.0 | 0.0 | 0.0 | 0.0 |
| 80° | 378.9 | 381.8 | 486.0 | 503.3 | 378.9 | 199.6 | 159.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 352.9 | 344.2 | 413.7 | 399.2 | 315.3 | 173.6 | 147.5 | 0.0 | 0.0 | 0.0 |
| 85° | 243.0 | 248.8 | 280.6 | 355.8 | 190.9 | 86.8 | 104.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 75.2 | 86.8 | 109.9 | 112.8 | 34.7 | 11.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 2.9 | 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)