

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: P579465

Luminaire Tested: **CST-CA8-330-730-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579465
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-CA8-330-730-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39627 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G4

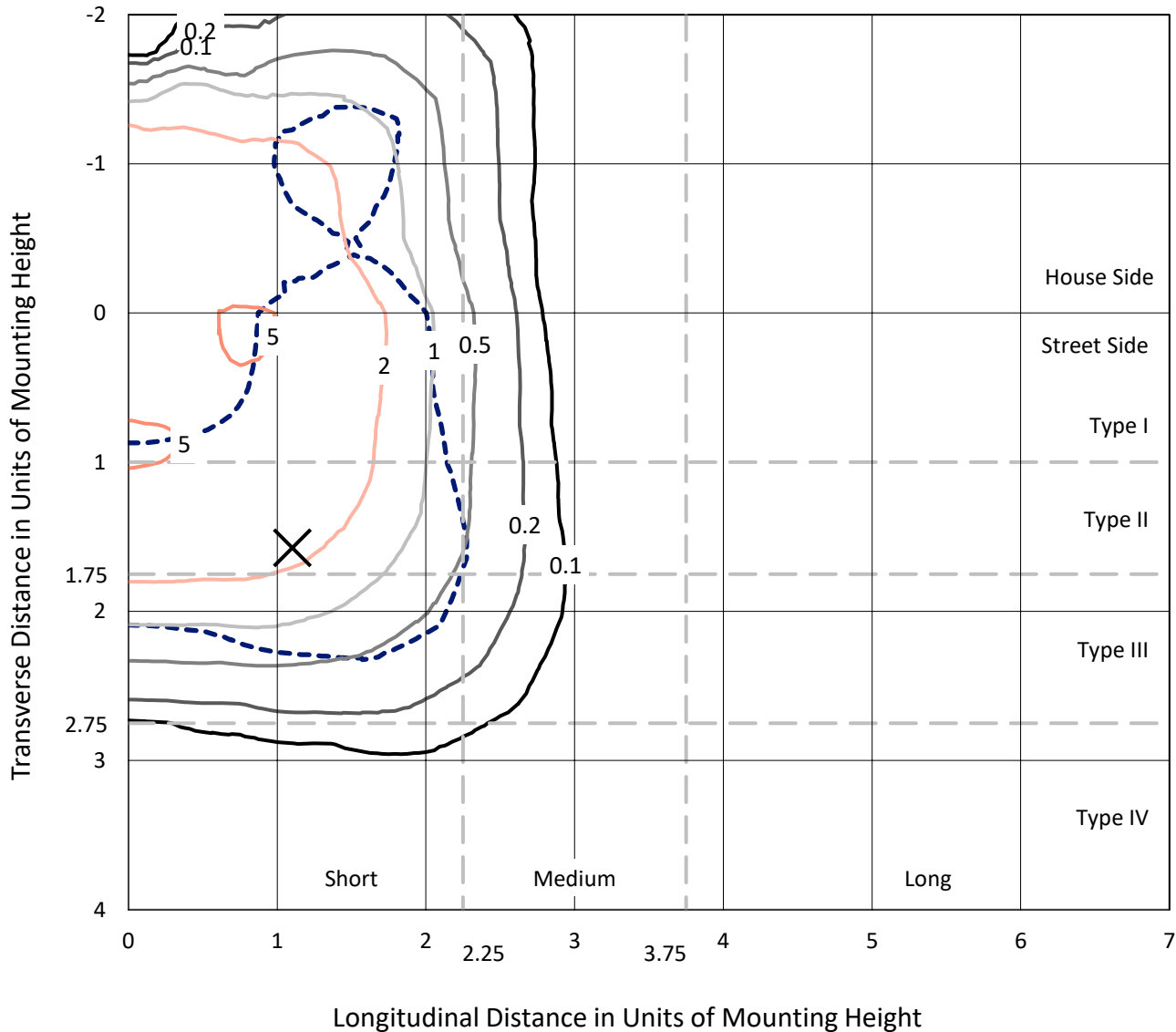
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

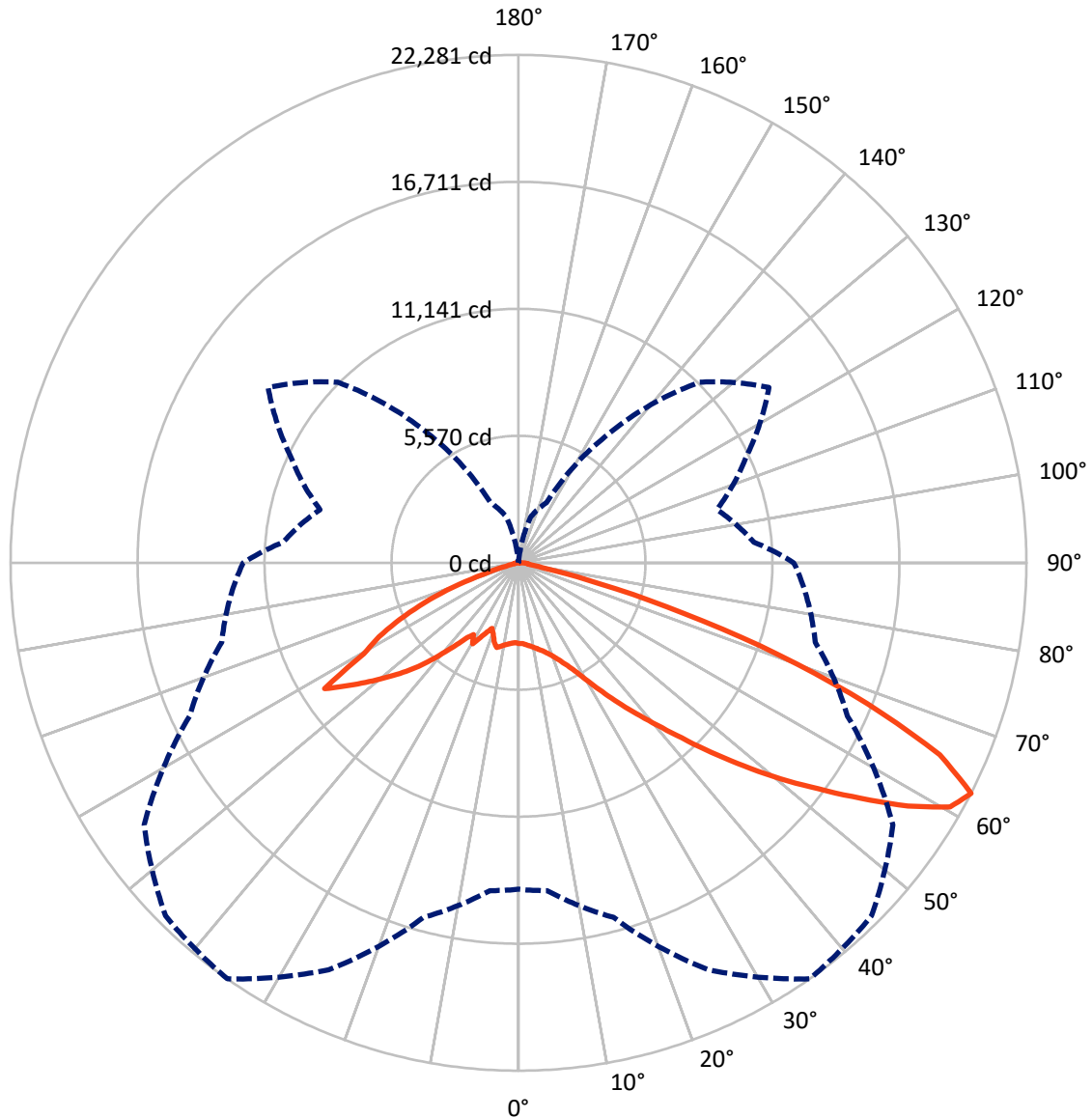
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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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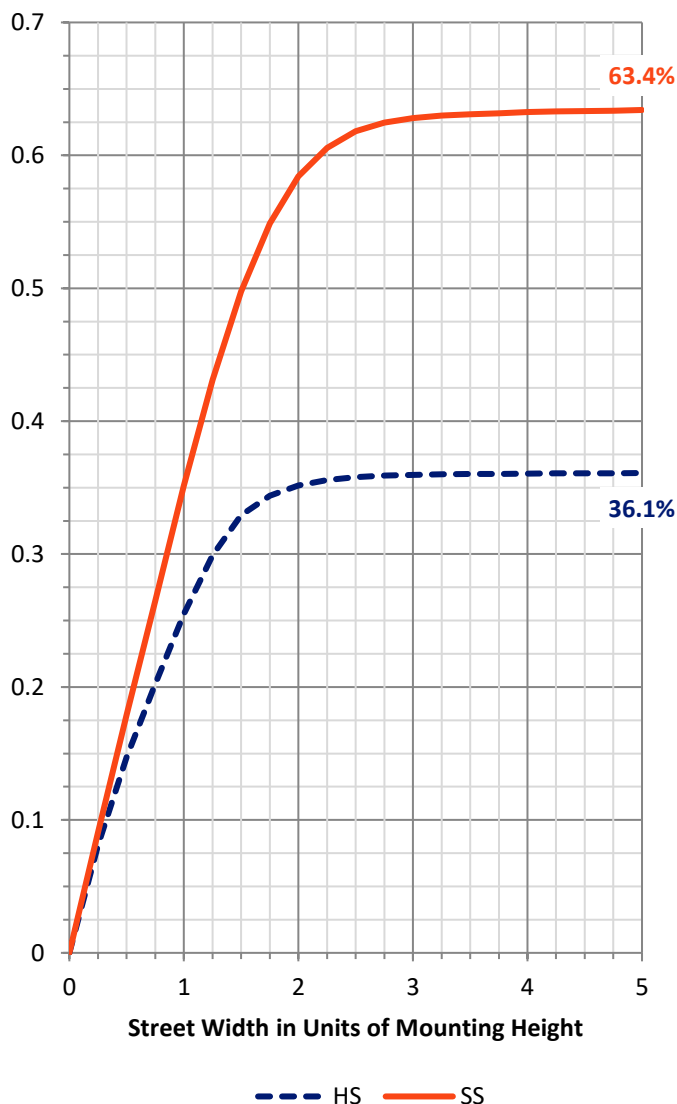
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14383.7 | 0.0 | 14383.7 |
| | % Fixture | 36.3 | 0.0 | 36.3 |
| Street Side | Lumens | 25224.5 | 18.8 | 25243.3 |
| | % Fixture | 63.7 | 0.0 | 63.7 |
| Total | Lumens | 39608.2 | 18.8 | 39627.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 348.6 | 0.9 |
| 10°-20° | 1126.6 | 2.8 |
| 20°-30° | 2167.5 | 5.5 |
| 30°-40° | 4323.8 | 10.9 |
| 40°-50° | 7895.1 | 19.9 |
| 50°-60° | 11798.0 | 29.8 |
| 60°-70° | 9885.6 | 24.9 |
| 70°-80° | 1850.0 | 4.7 |
| 80°-90° | 213.0 | 0.5 |
| 90°-100° | 16.9 | 0.0 |
| 100°-110° | 1.8 | 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° | 39608.2 | 100.0 |
| 0°-180° | 39627.0 | 100.0 |

Coefficient of Utilization



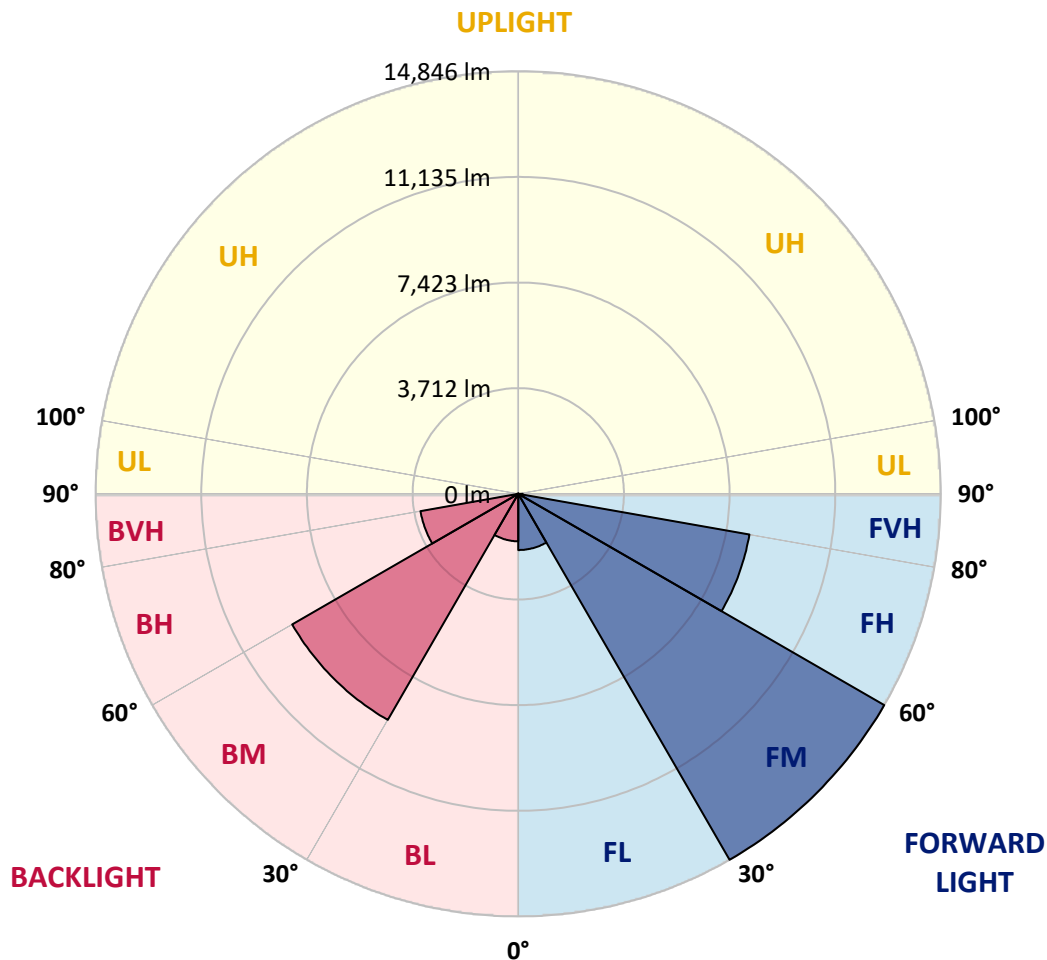
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|-------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1975.9 | 5.0 | | | |
| FM (30°-60°) | 14846.1 | 37.5 | | | |
| FH (60°-80°) | 8247.5 | 20.8 | | | G4/12000 |
| FVH (80°-90°) | 155.1 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1666.8 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 9170.9 | 23.1 | B5 | | |
| BH (60°-80°) | 3488.1 | 8.8 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 57.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 16.9 | 0.0 | | U2/50 | |
| UH (100°-180°) | 1.9 | 0.0 | | U1/10 | |

BUG Rating: B5-U2-G4

Type III Short





REPORT NUMBER: P579465

CATALOG NUMBER: CST-CA8-330-730-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 |
| 2.5° | 3621.4 | 3591.7 | 3596.2 | 3617.0 | 3551.6 | 3578.4 | 3550.1 | 3576.9 | 3568.0 | 3579.9 | 3588.8 |
| 5° | 3673.4 | 3636.3 | 3639.3 | 3663.0 | 3612.5 | 3634.8 | 3606.6 | 3624.4 | 3609.6 | 3625.9 | 3627.4 |
| 7.5° | 3744.7 | 3713.5 | 3709.1 | 3732.8 | 3689.8 | 3709.1 | 3680.9 | 3689.8 | 3674.9 | 3694.2 | 3688.3 |
| 10° | 3839.8 | 3811.6 | 3804.1 | 3820.5 | 3786.3 | 3796.7 | 3767.0 | 3778.9 | 3756.6 | 3778.9 | 3768.5 |
| 12.5° | 3945.3 | 3908.1 | 3909.6 | 3927.4 | 3893.3 | 3900.7 | 3876.9 | 3890.3 | 3863.6 | 3887.3 | 3879.9 |
| 15° | 4070.0 | 4016.6 | 4027.0 | 4046.3 | 4013.6 | 4035.9 | 4007.7 | 4027.0 | 4001.7 | 4027.0 | 4018.0 |
| 17.5° | 4231.9 | 4171.0 | 4178.5 | 4209.7 | 4182.9 | 4218.6 | 4185.9 | 4209.7 | 4197.8 | 4214.1 | 4211.2 |
| 20° | 4436.9 | 4396.8 | 4389.4 | 4428.0 | 4389.4 | 4434.0 | 4416.1 | 4457.7 | 4460.7 | 4477.0 | 4484.5 |
| 22.5° | 4710.3 | 4683.5 | 4665.7 | 4692.4 | 4658.3 | 4689.5 | 4714.7 | 4786.0 | 4812.7 | 4855.8 | 4858.8 |
| 25° | 5074.2 | 5072.7 | 5032.6 | 5034.1 | 4991.0 | 5032.6 | 5103.9 | 5215.3 | 5286.6 | 5341.6 | 5320.8 |
| 27.5° | 5565.9 | 5574.8 | 5513.9 | 5490.1 | 5439.6 | 5502.0 | 5649.0 | 5787.2 | 5916.4 | 5993.7 | 5993.7 |
| 30° | 6207.5 | 6216.5 | 6127.3 | 6079.8 | 6033.8 | 6142.2 | 6317.5 | 6497.2 | 6681.4 | 6792.8 | 6767.6 |
| 32.5° | 7057.2 | 7029.0 | 6901.2 | 6815.1 | 6736.4 | 6861.1 | 7063.1 | 7266.7 | 7517.7 | 7678.1 | 7658.8 |
| 35° | 8088.1 | 7985.6 | 7857.8 | 7697.4 | 7528.1 | 7626.1 | 7816.3 | 8071.7 | 8420.8 | 8661.5 | 8600.6 |
| 37.5° | 9285.3 | 9184.3 | 8966.0 | 8689.7 | 8394.1 | 8406.0 | 8556.0 | 8998.6 | 9435.4 | 9631.4 | 9589.8 |
| 40° | 10528.6 | 10449.9 | 10249.4 | 9894.4 | 9359.6 | 9236.3 | 9482.9 | 10016.2 | 10433.6 | 10680.1 | 10610.3 |
| 42.5° | 11795.7 | 11715.5 | 11564.0 | 11207.5 | 10498.9 | 10201.8 | 10458.8 | 11039.6 | 11485.2 | 11727.4 | 11647.1 |
| 45° | 13059.8 | 12967.7 | 12847.4 | 12532.4 | 11856.6 | 11421.4 | 11565.4 | 12098.7 | 12505.7 | 12780.5 | 12615.6 |
| 47.5° | 14170.9 | 14110.0 | 14028.3 | 13900.5 | 13309.3 | 12828.0 | 12817.6 | 13169.7 | 13450.4 | 13631.7 | 13429.6 |
| 50° | 15137.9 | 15094.8 | 15140.8 | 15114.1 | 14898.7 | 14460.5 | 14191.7 | 14167.9 | 14258.5 | 14390.7 | 14102.5 |
| 52.5° | 16005.3 | 15929.6 | 16100.4 | 16312.8 | 16471.8 | 16382.6 | 15512.2 | 15023.5 | 14924.0 | 14968.5 | 14641.7 |
| 55° | 16715.4 | 16679.7 | 16966.4 | 17499.7 | 18235.0 | 18431.0 | 16868.4 | 15855.3 | 15488.4 | 15464.7 | 15093.3 |
| 57.5° | 17149.1 | 17199.6 | 17773.0 | 18789.0 | 20137.8 | 20200.2 | 18533.5 | 16745.1 | 16038.0 | 15782.5 | 15354.7 |
| 60° | 16458.4 | 16653.0 | 17631.9 | 19727.8 | 21752.4 | 21791.0 | 19756.0 | 16908.5 | 15351.8 | 14779.9 | 14249.6 |
| 62.5° | 14322.4 | 14438.2 | 16103.4 | 19696.6 | 22281.2 | 21903.9 | 20047.2 | 15922.2 | 13478.7 | 12566.6 | 12076.4 |
| 65° | 10088.9 | 10305.8 | 12089.8 | 17721.0 | 20304.1 | 20351.7 | 18390.9 | 13766.8 | 10763.3 | 9754.7 | 9438.3 |
| 67.5° | 6093.2 | 6301.1 | 8201.0 | 12792.4 | 16505.9 | 17039.2 | 15341.4 | 10423.2 | 7718.2 | 6443.7 | 6124.4 |
| 70° | 1978.6 | 2204.4 | 3737.3 | 7540.0 | 12141.8 | 13420.7 | 11544.6 | 6783.9 | 4041.8 | 2831.2 | 2488.1 |
| 72.5° | 751.6 | 819.9 | 1216.6 | 3293.2 | 7562.2 | 8960.0 | 7140.4 | 3403.1 | 1252.2 | 745.7 | 655.1 |
| 75° | 488.7 | 499.1 | 568.9 | 1154.2 | 3646.7 | 4933.1 | 3441.7 | 996.7 | 502.1 | 445.6 | 412.9 |
| 77.5° | 420.4 | 427.8 | 457.5 | 574.9 | 1161.6 | 1886.5 | 987.8 | 509.5 | 418.9 | 371.4 | 349.1 |
| 80° | 396.6 | 399.6 | 418.9 | 487.2 | 543.7 | 629.8 | 475.3 | 426.3 | 365.4 | 349.1 | 332.7 |
| 82.5° | 375.8 | 386.2 | 396.6 | 442.7 | 441.2 | 453.1 | 381.8 | 334.2 | 310.5 | 326.8 | 320.8 |
| 85° | 350.6 | 356.5 | 363.9 | 395.1 | 359.5 | 304.5 | 294.1 | 230.2 | 224.3 | 239.2 | 224.3 |
| 87.5° | 246.6 | 261.4 | 252.5 | 265.9 | 249.5 | 194.6 | 164.9 | 130.7 | 104.0 | 86.2 | 83.2 |
| 90° | 101.0 | 102.5 | 96.6 | 89.1 | 78.7 | 65.4 | 52.0 | 32.7 | 14.9 | 7.4 | 3.0 |
| 92.5° | 78.7 | 78.7 | 75.8 | 68.3 | 59.4 | 49.0 | 37.1 | 20.8 | 10.4 | 4.5 | 1.5 |
| 95° | 49.0 | 50.5 | 47.5 | 43.1 | 37.1 | 29.7 | 22.3 | 11.9 | 7.4 | 3.0 | 1.5 |
| 97.5° | 31.2 | 31.2 | 28.2 | 25.3 | 20.8 | 14.9 | 10.4 | 8.9 | 5.9 | 3.0 | 0.0 |
| 100° | 17.8 | 17.8 | 16.3 | 13.4 | 10.4 | 7.4 | 7.4 | 5.9 | 4.5 | 1.5 | 0.0 |
| 102.5° | 10.4 | 10.4 | 7.4 | 5.9 | 4.5 | 4.5 | 4.5 | 4.5 | 3.0 | 1.5 | 0.0 |
| 105° | 4.5 | 4.5 | 3.0 | 3.0 | 1.5 | 1.5 | 3.0 | 3.0 | 3.0 | 1.5 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 3.0 | 3.0 | 1.5 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 3.0 | 1.5 | 1.5 |



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 CATALOG NUMBER: CST-CA8-330-730-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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 | 3545.7 |
| 2.5° | 3582.8 | 3556.1 | 3560.5 | 3535.3 | 3530.8 | 3505.6 | 3556.1 | 3562.0 | 3547.2 | 3560.5 |
| 5° | 3624.4 | 3591.7 | 3602.1 | 3573.9 | 3569.5 | 3535.3 | 3579.9 | 3576.9 | 3565.0 | 3578.4 |
| 7.5° | 3686.8 | 3652.6 | 3658.6 | 3627.4 | 3621.4 | 3584.3 | 3625.9 | 3612.5 | 3600.6 | 3617.0 |
| 10° | 3774.4 | 3735.8 | 3738.8 | 3698.7 | 3703.1 | 3654.1 | 3704.6 | 3680.9 | 3666.0 | 3688.3 |
| 12.5° | 3879.9 | 3836.8 | 3838.3 | 3796.7 | 3795.2 | 3747.7 | 3792.3 | 3778.9 | 3756.6 | 3790.8 |
| 15° | 4016.6 | 3967.5 | 3963.1 | 3908.1 | 3893.3 | 3839.8 | 3881.4 | 3856.1 | 3841.3 | 3890.3 |
| 17.5° | 4208.2 | 4153.2 | 4136.9 | 4070.0 | 3792.3 | 3631.8 | 3854.7 | 3930.4 | 3838.3 | 3823.5 |
| 20° | 4463.7 | 4417.6 | 4380.5 | 4279.5 | 3813.1 | 3312.5 | 2942.6 | 2945.6 | 3334.8 | 3514.5 |
| 22.5° | 4809.8 | 4754.8 | 4685.0 | 4540.9 | 3498.2 | 3103.0 | 3104.5 | 3100.1 | 2660.4 | 2474.7 |
| 25° | 5283.6 | 5216.8 | 5074.2 | 4260.2 | 3713.5 | 3348.1 | 3339.2 | 2904.0 | 2661.9 | 2675.2 |
| 27.5° | 5923.8 | 5787.2 | 4952.4 | 4615.2 | 4096.8 | 3666.0 | 3452.1 | 2923.3 | 2953.0 | 2973.8 |
| 30° | 6737.8 | 6188.2 | 5352.0 | 5151.4 | 4557.3 | 4087.9 | 3192.2 | 3264.9 | 3324.4 | 3337.7 |
| 32.5° | 7572.6 | 6206.1 | 5990.7 | 5778.3 | 5124.7 | 3719.5 | 3597.7 | 3735.8 | 3798.2 | 3805.6 |
| 35° | 7565.2 | 6966.6 | 6688.8 | 6449.7 | 5650.5 | 3979.4 | 4056.7 | 4269.1 | 4428.0 | 4420.6 |
| 37.5° | 8006.4 | 7805.9 | 7474.6 | 7171.6 | 5086.1 | 4483.0 | 4621.1 | 4861.8 | 5054.9 | 5048.9 |
| 40° | 8928.8 | 8697.1 | 8346.5 | 7710.8 | 5631.2 | 5059.3 | 5252.4 | 5510.9 | 5647.5 | 5655.0 |
| 42.5° | 9800.8 | 9609.2 | 9251.2 | 7204.3 | 6313.0 | 5753.0 | 5928.3 | 6102.1 | 6186.8 | 6213.5 |
| 45° | 10668.3 | 10531.6 | 9340.3 | 7961.8 | 7137.4 | 6451.2 | 6567.0 | 6599.7 | 6688.8 | 6678.4 |
| 47.5° | 11372.3 | 11220.8 | 8980.8 | 8912.5 | 8137.1 | 7113.7 | 7104.7 | 7061.7 | 7094.3 | 7101.8 |
| 50° | 12015.5 | 10189.9 | 9702.7 | 9930.0 | 9185.8 | 7789.5 | 7620.2 | 7532.5 | 7488.0 | 7468.7 |
| 52.5° | 12523.5 | 10192.9 | 10377.1 | 10981.7 | 10369.7 | 8523.3 | 8159.4 | 7912.8 | 6928.0 | 7698.9 |
| 55° | 12955.8 | 10613.3 | 11015.8 | 12106.1 | 11390.2 | 9291.3 | 8646.6 | 8206.9 | 4624.1 | 3707.6 |
| 57.5° | 13203.9 | 10932.7 | 11648.6 | 13159.3 | 12281.4 | 10145.4 | 7960.3 | 6883.4 | 2614.3 | 2611.4 |
| 60° | 12245.8 | 10359.3 | 11630.8 | 13711.9 | 12024.4 | 7869.7 | 3241.2 | 2712.4 | 494.6 | 508.0 |
| 62.5° | 10366.7 | 9012.0 | 11030.7 | 13408.8 | 11198.5 | 6923.5 | 2907.0 | 2088.5 | 16.3 | 13.4 |
| 65° | 8031.6 | 7189.4 | 9288.3 | 11794.2 | 10188.5 | 5776.8 | 2167.2 | 1504.7 | 4.5 | 0.0 |
| 67.5° | 5253.9 | 5066.8 | 6853.7 | 9780.0 | 8309.4 | 4475.6 | 1454.2 | 720.4 | 3.0 | 0.0 |
| 70° | 2240.0 | 2595.0 | 4341.9 | 7091.4 | 6360.5 | 3079.3 | 701.1 | 259.9 | 1.5 | 0.0 |
| 72.5° | 626.8 | 830.3 | 1932.5 | 4154.7 | 4000.2 | 1619.1 | 273.3 | 109.9 | 1.5 | 0.0 |
| 75° | 371.4 | 319.4 | 554.1 | 1657.7 | 1947.4 | 568.9 | 126.3 | 84.7 | 1.5 | 0.0 |
| 77.5° | 309.0 | 249.5 | 317.9 | 423.3 | 589.7 | 205.0 | 106.9 | 75.8 | 0.0 | 0.0 |
| 80° | 289.7 | 221.3 | 274.8 | 295.6 | 291.1 | 170.8 | 105.5 | 75.8 | 0.0 | 0.0 |
| 82.5° | 274.8 | 193.1 | 227.3 | 227.3 | 243.6 | 157.5 | 99.5 | 74.3 | 0.0 | 0.0 |
| 85° | 206.5 | 135.2 | 151.5 | 196.1 | 175.3 | 111.4 | 72.8 | 59.4 | 0.0 | 0.0 |
| 87.5° | 78.7 | 49.0 | 59.4 | 62.4 | 50.5 | 25.3 | 5.9 | 5.9 | 0.0 | 0.0 |
| 90° | 1.5 | 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)