

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: P579557

Luminaire Tested: **CST-CA8-330-750-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-330-750-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30739 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

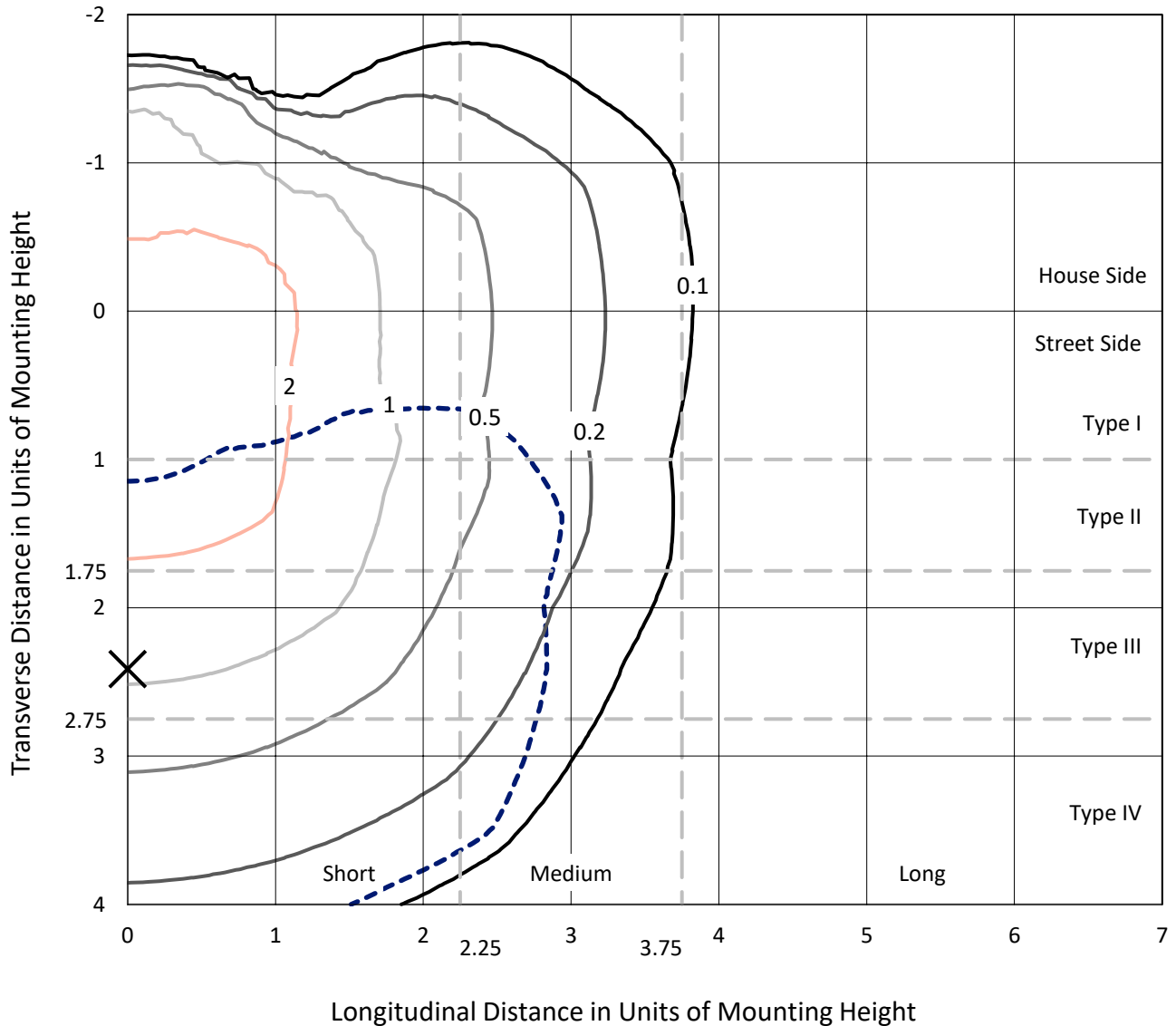
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

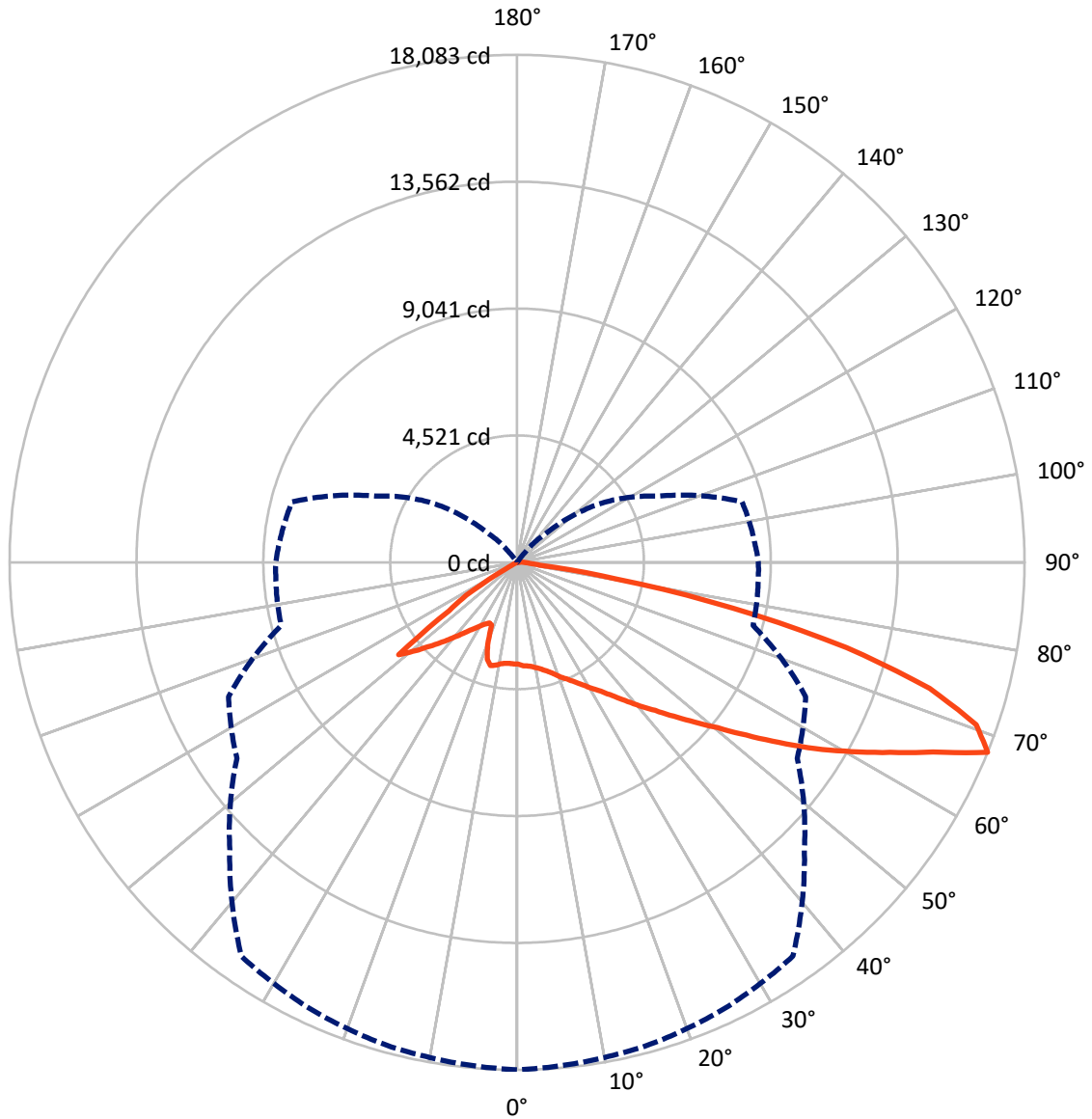
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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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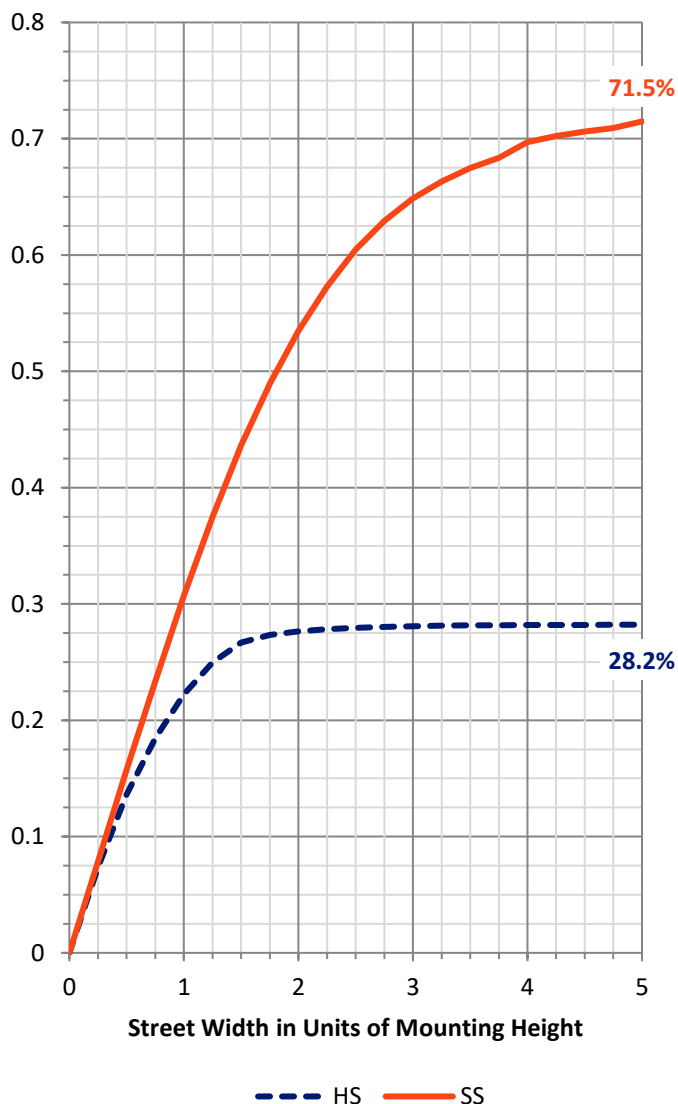
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8712.0 | 0.1 | 8712.1 |
| | % Fixture | 28.3 | 0.0 | 28.3 |
| Street Side | Lumens | 21987.7 | 39.1 | 22026.9 |
| | % Fixture | 71.5 | 0.1 | 71.7 |
| Total | Lumens | 30699.7 | 39.3 | 30739.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 349.1 | 1.1 |
| 10°-20° | 1074.8 | 3.5 |
| 20°-30° | 1779.7 | 5.8 |
| 30°-40° | 2801.5 | 9.1 |
| 40°-50° | 4384.4 | 14.3 |
| 50°-60° | 6330.3 | 20.6 |
| 60°-70° | 7842.1 | 25.5 |
| 70°-80° | 5711.2 | 18.6 |
| 80°-90° | 426.7 | 1.4 |
| 90°-100° | 33.5 | 0.1 |
| 100°-110° | 5.6 | 0.0 |
| 110°-120° | 0.2 | 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° | 30699.7 | 99.9 |
| 0°-180° | 30739.0 | 100.0 |

Coefficient of Utilization

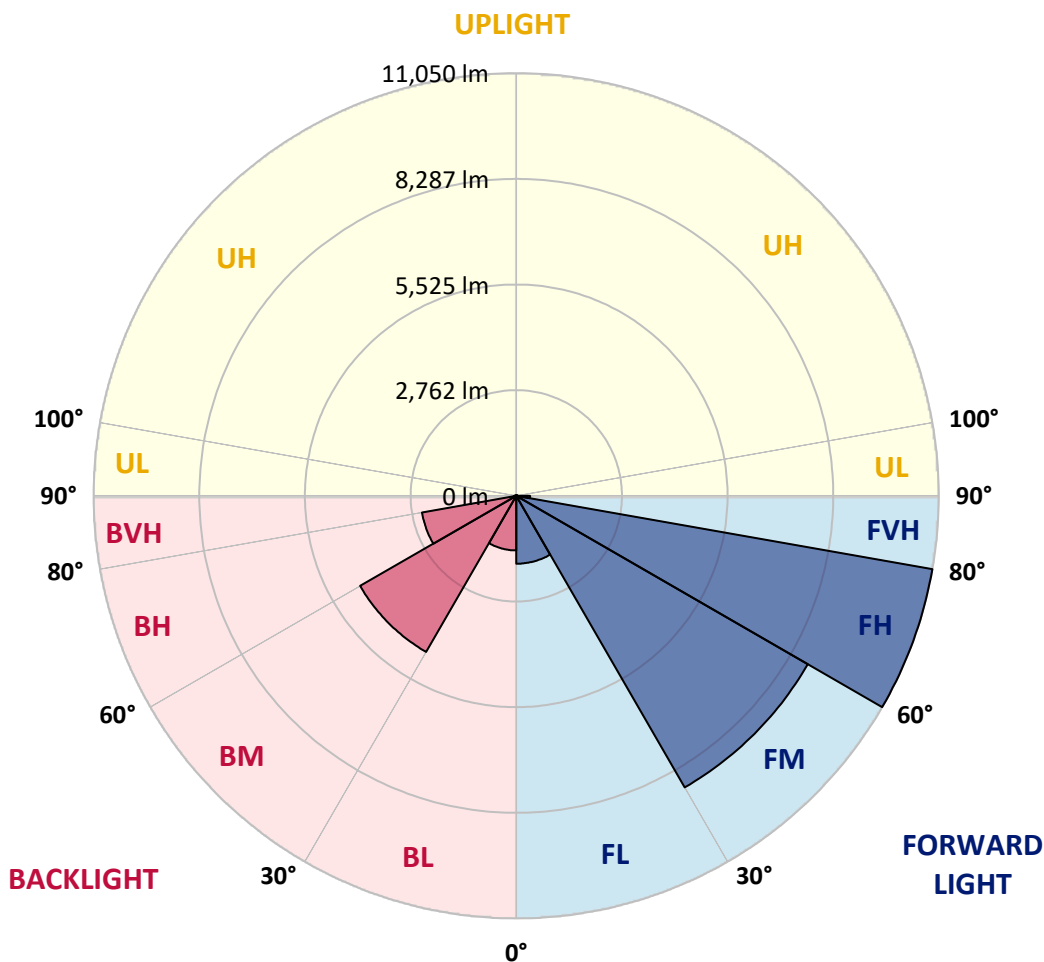


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|-------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1775.4 | 5.8 | | | |
| FM (30°-60°) | 8802.8 | 28.6 | | | |
| FH (60°-80°) | 11049.7 | 35.9 | | | G4/12000 |
| FVH (80°-90°) | 359.9 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1428.2 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 4713.4 | 15.3 | B3/5000 | | |
| BH (60°-80°) | 2503.7 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 66.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 33.5 | 0.1 | | U2/50 | |
| UH (100°-180°) | 5.8 | 0.0 | | U1/10 | |

BUG Rating: B4-U2-G4
 Type IV Short





REPORT NUMBER: P579557

CATALOG NUMBER: CST-CA8-330-750-U-T5-HSS-HM-EX180

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 |
| 2.5° | 3686.5 | 3666.5 | 3666.5 | 3688.0 | 3628.0 | 3646.5 | 3621.8 | 3643.4 | 3631.0 | 3637.2 | 3644.9 |
| 5° | 3708.1 | 3685.0 | 3686.5 | 3712.7 | 3658.8 | 3674.2 | 3644.9 | 3655.7 | 3644.9 | 3649.5 | 3649.5 |
| 7.5° | 3748.1 | 3728.1 | 3728.1 | 3743.5 | 3689.6 | 3694.2 | 3668.0 | 3668.0 | 3654.2 | 3664.9 | 3655.7 |
| 10° | 3823.6 | 3802.0 | 3791.3 | 3799.0 | 3751.2 | 3745.0 | 3709.6 | 3709.6 | 3688.0 | 3705.0 | 3691.1 |
| 12.5° | 3914.5 | 3883.7 | 3880.6 | 3882.2 | 3828.2 | 3817.5 | 3777.4 | 3778.9 | 3738.9 | 3762.0 | 3745.0 |
| 15° | 4023.9 | 3985.4 | 3982.3 | 3988.5 | 3931.5 | 3911.4 | 3866.7 | 3866.7 | 3822.1 | 3834.4 | 3811.3 |
| 17.5° | 4164.1 | 4119.4 | 4111.7 | 4122.5 | 4065.5 | 4047.0 | 3994.6 | 3985.4 | 3936.1 | 3926.8 | 3906.8 |
| 20° | 4348.9 | 4298.1 | 4282.7 | 4305.8 | 4233.4 | 4216.5 | 4153.3 | 4133.3 | 4067.0 | 3957.6 | 3814.4 |
| 22.5° | 4515.3 | 4475.3 | 4466.0 | 4481.4 | 4415.2 | 4398.2 | 4336.6 | 4295.0 | 4134.8 | 3914.5 | 3782.0 |
| 25° | 4704.8 | 4689.4 | 4684.8 | 4675.5 | 4615.5 | 4586.2 | 4527.6 | 4469.1 | 4105.5 | 3803.6 | 3800.5 |
| 27.5° | 4939.0 | 4931.3 | 4909.7 | 4902.0 | 4835.7 | 4817.3 | 4740.2 | 4362.8 | 4000.8 | 3979.2 | 3966.9 |
| 30° | 5194.7 | 5179.3 | 5157.7 | 5159.3 | 5114.6 | 5080.7 | 4897.4 | 4268.8 | 4202.6 | 4202.6 | 4170.2 |
| 32.5° | 5478.2 | 5461.2 | 5439.6 | 5444.3 | 5425.8 | 5396.5 | 4845.0 | 4516.9 | 4466.0 | 4479.9 | 4439.8 |
| 35° | 5829.4 | 5801.7 | 5794.0 | 5812.4 | 5814.0 | 5624.5 | 4937.4 | 4854.2 | 4814.2 | 4804.9 | 4654.0 |
| 37.5° | 6239.2 | 6216.1 | 6243.8 | 6286.9 | 6237.6 | 5683.0 | 5305.6 | 5279.4 | 5239.4 | 5016.0 | 4658.6 |
| 40° | 6730.6 | 6689.0 | 6722.9 | 6750.6 | 6718.3 | 6031.2 | 5692.3 | 5701.5 | 5666.1 | 5003.7 | 4607.7 |
| 42.5° | 7217.4 | 7177.4 | 7206.6 | 7276.0 | 7263.6 | 6462.6 | 6163.7 | 6183.7 | 5826.3 | 5032.9 | 5002.1 |
| 45° | 7819.8 | 7805.9 | 7796.7 | 7853.7 | 7901.4 | 6978.6 | 6722.9 | 6721.4 | 5712.3 | 5498.2 | 5470.4 |
| 47.5° | 8502.2 | 8483.7 | 8488.4 | 8560.8 | 8633.2 | 7594.8 | 7383.8 | 6764.5 | 6006.6 | 6028.1 | 6003.5 |
| 50° | 9263.3 | 9243.2 | 9303.3 | 9408.1 | 9445.0 | 8286.6 | 8027.7 | 6647.4 | 6619.7 | 6642.8 | 6601.2 |
| 52.5° | 10229.2 | 10184.5 | 10276.9 | 10389.4 | 10437.1 | 9104.6 | 8063.2 | 7339.1 | 7292.9 | 7297.5 | 7165.0 |
| 55° | 11327.6 | 11292.1 | 11375.3 | 11501.7 | 11572.5 | 10018.1 | 8799.5 | 8012.3 | 7984.6 | 7198.9 | 6482.6 |
| 57.5° | 12521.5 | 12481.4 | 12592.4 | 12629.3 | 12647.8 | 10962.5 | 9540.5 | 8742.5 | 7459.3 | 6573.5 | 6533.4 |
| 60° | 13692.3 | 13649.2 | 13789.4 | 13795.5 | 13849.4 | 11905.3 | 10244.6 | 9446.6 | 7186.6 | 7069.5 | 7035.6 |
| 62.5° | 14921.6 | 14867.7 | 14991.0 | 14986.3 | 14880.1 | 12768.0 | 10942.4 | 10122.9 | 7673.4 | 7581.0 | 7528.6 |
| 65° | 16286.6 | 16246.5 | 16332.8 | 16194.1 | 15983.1 | 13659.9 | 11666.5 | 10859.2 | 8240.3 | 8223.4 | 8211.1 |
| 67.5° | 18082.8 | 18004.3 | 17830.2 | 17534.4 | 17130.8 | 14478.0 | 12184.1 | 11344.5 | 8701.0 | 8622.4 | 8597.7 |
| 70° | 17360.3 | 17267.9 | 17135.4 | 16810.3 | 16399.0 | 13709.2 | 11352.2 | 10611.2 | 8135.6 | 8138.7 | 8080.1 |
| 72.5° | 15371.5 | 15211.3 | 15086.5 | 14630.5 | 14404.0 | 11973.1 | 9891.8 | 9209.3 | 7037.2 | 7168.1 | 7140.4 |
| 75° | 12125.6 | 11962.3 | 11757.4 | 11578.7 | 11554.0 | 9711.5 | 7975.4 | 7483.9 | 5610.6 | 5706.2 | 5775.5 |
| 77.5° | 7859.8 | 7799.7 | 8058.6 | 7889.1 | 8041.6 | 6687.5 | 5696.9 | 5274.8 | 3866.7 | 4108.6 | 4076.3 |
| 80° | 3597.2 | 3527.8 | 3943.8 | 3826.7 | 3883.7 | 3284.4 | 2783.8 | 2674.4 | 1750.1 | 1762.4 | 1799.3 |
| 82.5° | 813.4 | 785.7 | 814.9 | 748.7 | 730.2 | 617.8 | 543.8 | 493.0 | 309.6 | 328.1 | 345.1 |
| 85° | 445.2 | 445.2 | 439.1 | 408.2 | 349.7 | 288.1 | 228.0 | 175.6 | 95.5 | 104.8 | 103.2 |
| 87.5° | 312.7 | 305.0 | 303.5 | 271.1 | 232.6 | 197.2 | 157.1 | 112.5 | 53.9 | 37.0 | 33.9 |
| 90° | 214.1 | 211.1 | 200.3 | 180.2 | 155.6 | 127.9 | 95.5 | 55.5 | 23.1 | 10.8 | 7.7 |
| 92.5° | 155.6 | 152.5 | 144.8 | 127.9 | 106.3 | 86.3 | 63.2 | 37.0 | 18.5 | 7.7 | 1.5 |
| 95° | 103.2 | 101.7 | 97.1 | 83.2 | 69.3 | 55.5 | 40.1 | 23.1 | 15.4 | 6.2 | 1.5 |
| 97.5° | 70.9 | 69.3 | 64.7 | 55.5 | 44.7 | 35.4 | 24.6 | 16.9 | 12.3 | 4.6 | 1.5 |
| 100° | 47.8 | 46.2 | 43.1 | 35.4 | 27.7 | 21.6 | 15.4 | 12.3 | 9.2 | 4.6 | 1.5 |
| 102.5° | 30.8 | 29.3 | 26.2 | 21.6 | 15.4 | 12.3 | 10.8 | 9.2 | 6.2 | 3.1 | 1.5 |
| 105° | 18.5 | 16.9 | 13.9 | 10.8 | 9.2 | 7.7 | 7.7 | 6.2 | 4.6 | 1.5 | 1.5 |
| 107.5° | 9.2 | 7.7 | 6.2 | 6.2 | 6.2 | 4.6 | 4.6 | 4.6 | 3.1 | 1.5 | 0.0 |
| 110° | 1.5 | 1.5 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 1.5 | 0.0 |



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 CATALOG NUMBER: CST-CA8-330-750-U-T5-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: P579557

CATALOG NUMBER: CST-CA8-330-750-U-T5-HSS-HM-EX180

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 | 3620.3 |
| 2.5° | 3637.2 | 3612.6 | 3626.4 | 3604.9 | 3600.2 | 3577.1 | 3614.1 | 3618.7 | 3615.6 | 3621.8 |
| 5° | 3641.8 | 3615.6 | 3631.0 | 3604.9 | 3604.9 | 3580.2 | 3615.6 | 3615.6 | 3606.4 | 3609.5 |
| 7.5° | 3654.2 | 3628.0 | 3638.7 | 3609.5 | 3611.0 | 3581.7 | 3624.9 | 3620.3 | 3612.6 | 3623.3 |
| 10° | 3689.6 | 3660.3 | 3658.8 | 3631.0 | 3637.2 | 3606.4 | 3660.3 | 3660.3 | 3652.6 | 3672.6 |
| 12.5° | 3746.6 | 3703.5 | 3695.7 | 3661.9 | 3674.2 | 3648.0 | 3714.2 | 3717.3 | 3718.9 | 3751.2 |
| 15° | 3806.7 | 3754.3 | 3762.0 | 3721.9 | 3717.3 | 3703.5 | 3763.5 | 3760.5 | 3758.9 | 3803.6 |
| 17.5° | 3891.4 | 3644.9 | 3604.9 | 3577.1 | 3571.0 | 3537.1 | 3592.5 | 3698.8 | 3643.4 | 3612.6 |
| 20° | 3757.4 | 3628.0 | 3469.3 | 3415.4 | 3404.6 | 3110.3 | 2877.7 | 2982.5 | 3124.2 | 3136.5 |
| 22.5° | 3635.7 | 3589.5 | 3577.1 | 3492.4 | 3022.5 | 2923.9 | 2933.2 | 2894.7 | 2558.8 | 2412.5 |
| 25° | 3786.6 | 3746.6 | 3694.2 | 3176.6 | 3065.7 | 3030.2 | 3019.5 | 2625.1 | 2360.1 | 2377.0 |
| 27.5° | 3954.6 | 3909.9 | 3453.9 | 3184.3 | 3208.9 | 3159.6 | 2916.2 | 2449.5 | 2434.0 | 2463.3 |
| 30° | 4164.1 | 3806.7 | 3370.7 | 3355.3 | 3378.4 | 3315.2 | 2591.2 | 2557.3 | 2552.7 | 2583.5 |
| 32.5° | 4402.9 | 3671.1 | 3592.5 | 3592.5 | 3581.7 | 2899.3 | 2729.8 | 2706.7 | 2719.0 | 2751.4 |
| 35° | 4313.5 | 3883.7 | 3874.5 | 3913.0 | 3654.2 | 2974.8 | 2951.7 | 2911.6 | 2920.9 | 2931.6 |
| 37.5° | 4214.9 | 4233.4 | 4238.0 | 4218.0 | 2665.1 | 3190.5 | 3172.0 | 3164.3 | 3155.0 | 3158.1 |
| 40° | 4581.6 | 4593.9 | 4589.3 | 4405.9 | 2876.2 | 3232.0 | 3421.5 | 3407.7 | 3406.1 | 3424.6 |
| 42.5° | 5009.8 | 5043.7 | 5017.5 | 3886.8 | 3158.1 | 2717.5 | 3709.6 | 3701.9 | 3698.8 | 3737.3 |
| 45° | 5492.0 | 5524.4 | 4974.4 | 4162.5 | 3458.5 | 2813.0 | 3729.6 | 4016.2 | 4039.3 | 4073.2 |
| 47.5° | 6014.3 | 6008.1 | 4590.8 | 4586.2 | 3811.3 | 3078.0 | 3101.1 | 4392.1 | 4430.6 | 4442.9 |
| 50° | 6615.1 | 5627.6 | 5026.8 | 4857.3 | 4210.3 | 3375.3 | 3287.5 | 4030.0 | 4880.4 | 4892.7 |
| 52.5° | 6487.2 | 5567.5 | 5527.4 | 4261.1 | 4567.7 | 3703.5 | 3617.2 | 3594.1 | 5059.1 | 5356.4 |
| 55° | 6046.6 | 6092.8 | 6035.8 | 4675.5 | 3349.1 | 3996.2 | 3942.2 | 3919.1 | 3763.5 | 2979.4 |
| 57.5° | 6536.5 | 6550.4 | 6501.1 | 5056.0 | 3406.1 | 2491.0 | 3880.6 | 3329.1 | 2162.9 | 2152.1 |
| 60° | 7044.9 | 7068.0 | 4841.9 | 3714.2 | 2182.9 | 833.4 | 198.7 | 209.5 | 597.7 | 525.3 |
| 62.5° | 7530.1 | 7553.3 | 5125.4 | 3393.8 | 1378.8 | 61.6 | 40.1 | 27.7 | 30.8 | 30.8 |
| 65° | 8163.3 | 8172.6 | 5485.9 | 3592.5 | 1432.7 | 15.4 | 4.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 8491.4 | 8302.0 | 5576.7 | 3683.4 | 1471.2 | 9.2 | 3.1 | 0.0 | 0.0 | 0.0 |
| 70° | 7995.4 | 7792.0 | 5191.6 | 3452.3 | 1371.1 | 7.7 | 1.5 | 0.0 | 0.0 | 0.0 |
| 72.5° | 7044.9 | 6946.3 | 4660.1 | 3061.0 | 1213.9 | 4.6 | 1.5 | 0.0 | 0.0 | 0.0 |
| 75° | 5838.6 | 5707.7 | 3863.7 | 2551.1 | 1004.4 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4153.3 | 4168.7 | 2692.9 | 1859.4 | 684.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1817.8 | 1859.4 | 1180.1 | 853.5 | 241.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 346.6 | 318.9 | 154.1 | 121.7 | 30.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 114.0 | 124.8 | 57.0 | 46.2 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 40.1 | 50.8 | 16.9 | 13.9 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 6.2 | 6.2 | 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)