

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: P579473

Luminaire Tested: **CST-CA10-210-740-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579473
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-CA10-210-740-U-T5-HSS-HM-EX180
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: 21523 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

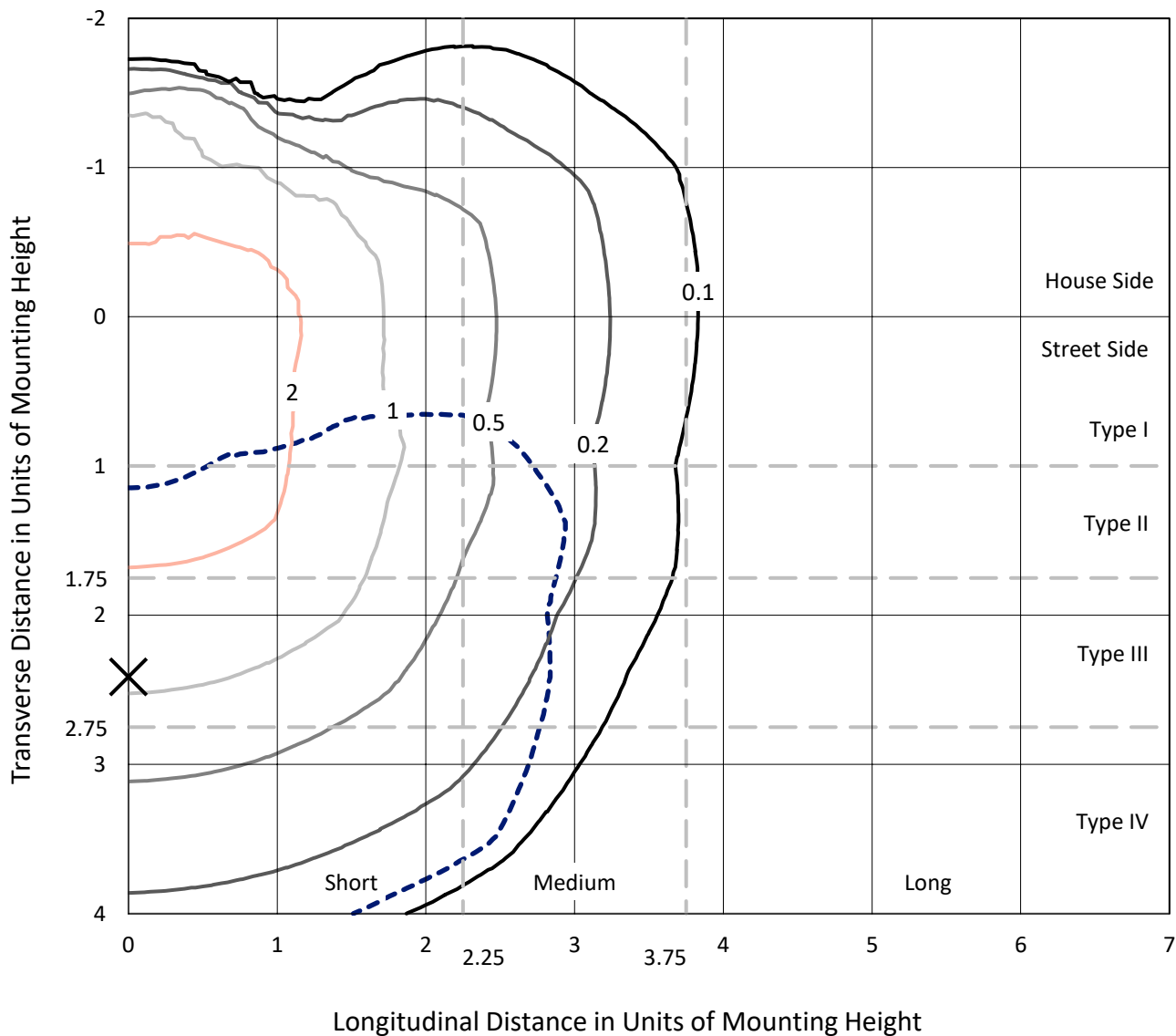
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

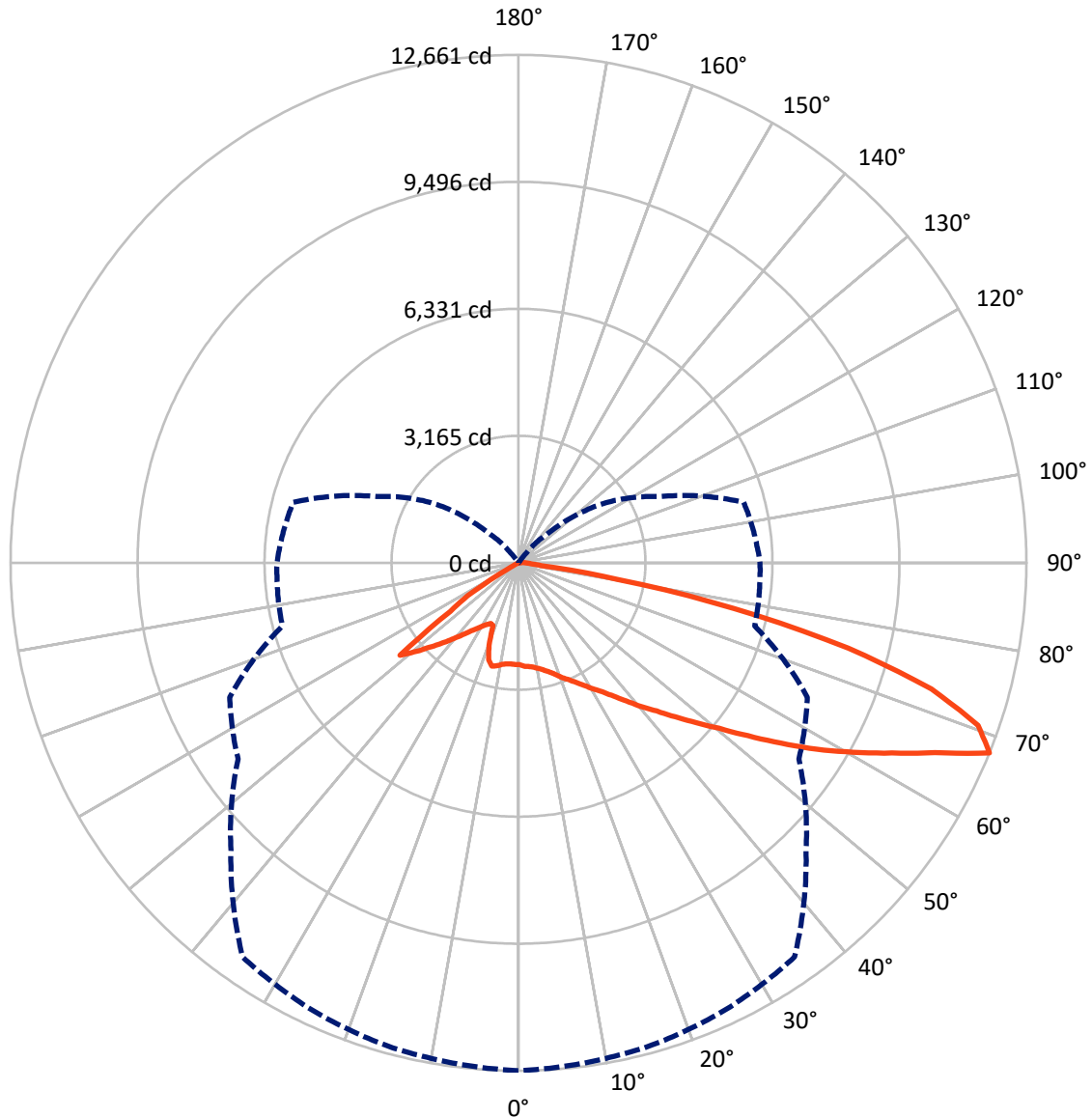
× Max cd
 - - - 1/2 Max cd



Based on 25 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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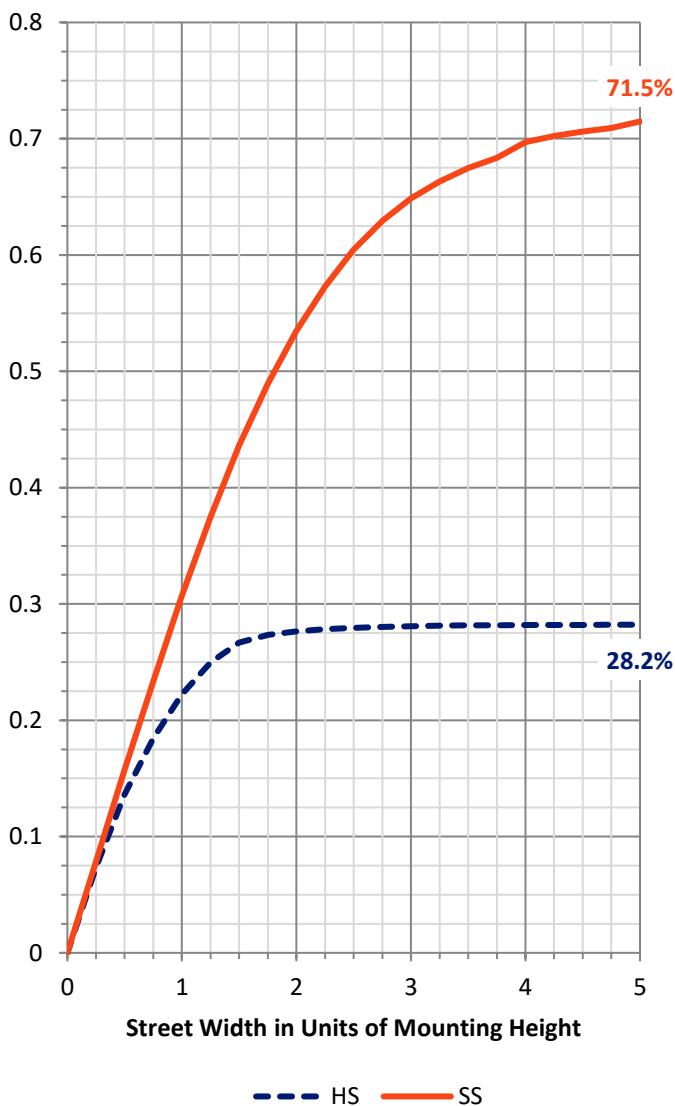
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6100.0 | 0.1 | 6100.1 |
| | % Fixture | 28.3 | 0.0 | 28.3 |
| Street Side | Lumens | 15395.5 | 27.4 | 15422.9 |
| | % Fixture | 71.5 | 0.1 | 71.7 |
| Total | Lumens | 21495.5 | 27.5 | 21523.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 244.5 | 1.1 |
| 10°-20° | 752.5 | 3.5 |
| 20°-30° | 1246.1 | 5.8 |
| 30°-40° | 1961.6 | 9.1 |
| 40°-50° | 3069.9 | 14.3 |
| 50°-60° | 4432.4 | 20.6 |
| 60°-70° | 5490.9 | 25.5 |
| 70°-80° | 3998.9 | 18.6 |
| 80°-90° | 298.7 | 1.4 |
| 90°-100° | 23.5 | 0.1 |
| 100°-110° | 3.9 | 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° | 21495.5 | 99.9 |
| 0°-180° | 21523.0 | 100.0 |

Coefficient of Utilization

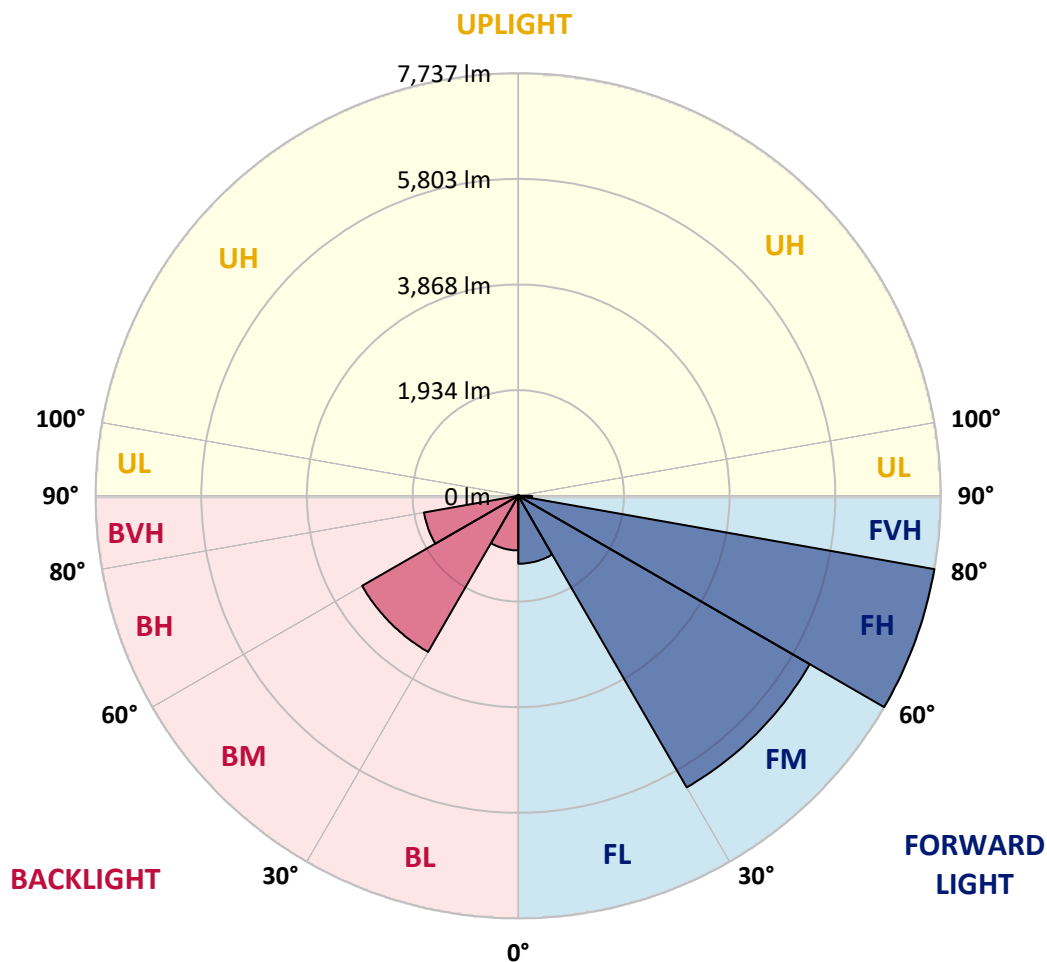


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1243.1 | 5.8 | | | |
| FM | (30°-60°) | 6163.6 | 28.6 | | | |
| FH | (60°-80°) | 7736.8 | 35.9 | | | G4/12000 |
| FVH | (80°-90°) | 252.0 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1000.0 | 4.6 | B2/1000 | | |
| BM | (30°-60°) | 3300.2 | 15.3 | B3/5000 | | |
| BH | (60°-80°) | 1753.1 | 8.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 46.8 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 23.5 | 0.1 | | U2/50 | |
| UH | (100°-180°) | 4.0 | 0.0 | | U1/10 | |

BUG Rating: B3-U2-G4
 Type IV Short





REPORT NUMBER: P579473

CATALOG NUMBER: CST-CA10-210-740-U-T5-HSS-HM-EX180

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 |
| 2.5° | 2581.2 | 2567.2 | 2567.2 | 2582.3 | 2540.2 | 2553.2 | 2535.9 | 2551.0 | 2542.4 | 2546.7 | 2552.1 |
| 5° | 2596.3 | 2580.2 | 2581.2 | 2599.6 | 2561.8 | 2572.6 | 2552.1 | 2559.7 | 2552.1 | 2555.3 | 2555.3 |
| 7.5° | 2624.4 | 2610.4 | 2610.4 | 2621.1 | 2583.4 | 2586.6 | 2568.3 | 2568.3 | 2558.6 | 2566.1 | 2559.7 |
| 10° | 2677.2 | 2662.1 | 2654.6 | 2660.0 | 2626.5 | 2622.2 | 2597.4 | 2597.4 | 2582.3 | 2594.2 | 2584.5 |
| 12.5° | 2740.9 | 2719.3 | 2717.1 | 2718.2 | 2680.5 | 2672.9 | 2644.9 | 2646.0 | 2617.9 | 2634.1 | 2622.2 |
| 15° | 2817.5 | 2790.5 | 2788.3 | 2792.7 | 2752.7 | 2738.7 | 2707.4 | 2707.4 | 2676.2 | 2684.8 | 2668.6 |
| 17.5° | 2915.6 | 2884.3 | 2878.9 | 2886.5 | 2846.6 | 2833.6 | 2797.0 | 2790.5 | 2756.0 | 2749.5 | 2735.5 |
| 20° | 3045.1 | 3009.5 | 2998.7 | 3014.9 | 2964.2 | 2952.3 | 2908.1 | 2894.0 | 2847.7 | 2771.1 | 2670.8 |
| 22.5° | 3161.6 | 3133.5 | 3127.0 | 3137.8 | 3091.4 | 3079.6 | 3036.4 | 3007.3 | 2895.1 | 2740.9 | 2648.1 |
| 25° | 3294.2 | 3283.4 | 3280.2 | 3273.7 | 3231.7 | 3211.2 | 3170.2 | 3129.2 | 2874.6 | 2663.2 | 2661.1 |
| 27.5° | 3458.2 | 3452.8 | 3437.7 | 3432.3 | 3385.9 | 3373.0 | 3319.0 | 3054.8 | 2801.3 | 2786.2 | 2777.6 |
| 30° | 3637.2 | 3626.5 | 3611.4 | 3612.4 | 3581.2 | 3557.4 | 3429.1 | 2989.0 | 2942.6 | 2942.6 | 2919.9 |
| 32.5° | 3835.7 | 3823.9 | 3808.8 | 3812.0 | 3799.0 | 3778.6 | 3392.4 | 3162.6 | 3127.0 | 3136.7 | 3108.7 |
| 35° | 4081.7 | 4062.2 | 4056.8 | 4069.8 | 4070.9 | 3938.2 | 3457.1 | 3398.9 | 3370.8 | 3364.3 | 3258.6 |
| 37.5° | 4368.6 | 4352.4 | 4371.8 | 4402.0 | 4367.5 | 3979.2 | 3714.9 | 3696.6 | 3668.5 | 3512.1 | 3261.9 |
| 40° | 4712.7 | 4683.5 | 4707.3 | 4726.7 | 4704.0 | 4223.0 | 3985.7 | 3992.1 | 3967.3 | 3503.5 | 3226.3 |
| 42.5° | 5053.5 | 5025.5 | 5046.0 | 5094.5 | 5085.9 | 4525.0 | 4315.7 | 4329.7 | 4079.5 | 3524.0 | 3502.4 |
| 45° | 5475.3 | 5465.6 | 5459.1 | 5499.0 | 5532.5 | 4886.3 | 4707.3 | 4706.2 | 3999.7 | 3849.7 | 3830.3 |
| 47.5° | 5953.1 | 5940.2 | 5943.4 | 5994.1 | 6044.8 | 5317.8 | 5170.0 | 4736.4 | 4205.7 | 4220.8 | 4203.5 |
| 50° | 6486.0 | 6472.0 | 6514.0 | 6587.4 | 6613.3 | 5802.1 | 5620.9 | 4654.4 | 4635.0 | 4651.2 | 4622.1 |
| 52.5° | 7162.3 | 7131.0 | 7195.8 | 7274.5 | 7307.9 | 6374.9 | 5645.7 | 5138.7 | 5106.4 | 5109.6 | 5016.9 |
| 55° | 7931.4 | 7906.6 | 7964.8 | 8053.3 | 8102.9 | 7014.5 | 6161.3 | 5610.1 | 5590.7 | 5040.6 | 4539.0 |
| 57.5° | 8767.4 | 8739.3 | 8817.0 | 8842.9 | 8855.8 | 7675.8 | 6680.2 | 6121.4 | 5222.9 | 4602.7 | 4574.6 |
| 60° | 9587.1 | 9556.9 | 9655.1 | 9659.4 | 9697.2 | 8335.9 | 7173.1 | 6614.4 | 5032.0 | 4950.0 | 4926.2 |
| 62.5° | 10447.9 | 10410.2 | 10496.5 | 10493.2 | 10418.8 | 8939.9 | 7661.7 | 7087.9 | 5372.8 | 5308.1 | 5271.4 |
| 65° | 11403.6 | 11375.6 | 11436.0 | 11338.9 | 11191.1 | 9564.5 | 8168.7 | 7603.5 | 5769.8 | 5757.9 | 5749.3 |
| 67.5° | 12661.3 | 12606.3 | 12484.4 | 12277.3 | 11994.7 | 10137.3 | 8531.1 | 7943.3 | 6092.3 | 6037.3 | 6020.0 |
| 70° | 12155.4 | 12090.7 | 11998.0 | 11770.4 | 11482.4 | 9599.0 | 7948.7 | 7429.8 | 5696.4 | 5698.6 | 5657.6 |
| 72.5° | 10762.9 | 10650.7 | 10563.3 | 10244.1 | 10085.5 | 8383.4 | 6926.1 | 6448.2 | 4927.3 | 5019.0 | 4999.6 |
| 75° | 8490.1 | 8375.8 | 8232.3 | 8107.2 | 8090.0 | 6799.9 | 5584.2 | 5240.1 | 3928.5 | 3995.4 | 4043.9 |
| 77.5° | 5503.3 | 5461.3 | 5642.5 | 5523.8 | 5630.6 | 4682.5 | 3988.9 | 3693.3 | 2707.4 | 2876.8 | 2854.1 |
| 80° | 2518.7 | 2470.1 | 2761.4 | 2679.4 | 2719.3 | 2299.7 | 1949.1 | 1872.6 | 1225.4 | 1234.0 | 1259.9 |
| 82.5° | 569.5 | 550.1 | 570.6 | 524.2 | 511.3 | 432.5 | 380.8 | 345.2 | 216.8 | 229.8 | 241.6 |
| 85° | 311.7 | 311.7 | 307.4 | 285.8 | 244.9 | 201.7 | 159.6 | 123.0 | 66.9 | 73.3 | 72.3 |
| 87.5° | 219.0 | 213.6 | 212.5 | 189.8 | 162.9 | 138.1 | 110.0 | 78.7 | 37.8 | 25.9 | 23.7 |
| 90° | 149.9 | 147.8 | 140.2 | 126.2 | 108.9 | 89.5 | 66.9 | 38.8 | 16.2 | 7.6 | 5.4 |
| 92.5° | 108.9 | 106.8 | 101.4 | 89.5 | 74.4 | 60.4 | 44.2 | 25.9 | 12.9 | 5.4 | 1.1 |
| 95° | 72.3 | 71.2 | 68.0 | 58.2 | 48.5 | 38.8 | 28.0 | 16.2 | 10.8 | 4.3 | 1.1 |
| 97.5° | 49.6 | 48.5 | 45.3 | 38.8 | 31.3 | 24.8 | 17.3 | 11.9 | 8.6 | 3.2 | 1.1 |
| 100° | 33.4 | 32.4 | 30.2 | 24.8 | 19.4 | 15.1 | 10.8 | 8.6 | 6.5 | 3.2 | 1.1 |
| 102.5° | 21.6 | 20.5 | 18.3 | 15.1 | 10.8 | 8.6 | 7.6 | 6.5 | 4.3 | 2.2 | 1.1 |
| 105° | 12.9 | 11.9 | 9.7 | 7.6 | 6.5 | 5.4 | 5.4 | 4.3 | 3.2 | 1.1 | 1.1 |
| 107.5° | 6.5 | 5.4 | 4.3 | 4.3 | 4.3 | 3.2 | 3.2 | 3.2 | 2.2 | 1.1 | 0.0 |
| 110° | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 0.0 |



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 CATALOG NUMBER: CST-CA10-210-740-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 |



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CATALOG NUMBER: CST-CA10-210-740-U-T5-HSS-HM-EX180

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 | 2534.9 |
| 2.5° | 2546.7 | 2529.5 | 2539.2 | 2524.1 | 2520.8 | 2504.7 | 2530.5 | 2533.8 | 2531.6 | 2535.9 |
| 5° | 2550.0 | 2531.6 | 2542.4 | 2524.1 | 2524.1 | 2506.8 | 2531.6 | 2531.6 | 2525.1 | 2527.3 |
| 7.5° | 2558.6 | 2540.2 | 2547.8 | 2527.3 | 2528.4 | 2507.9 | 2538.1 | 2534.9 | 2529.5 | 2537.0 |
| 10° | 2583.4 | 2562.9 | 2561.8 | 2542.4 | 2546.7 | 2525.1 | 2562.9 | 2562.9 | 2557.5 | 2571.5 |
| 12.5° | 2623.3 | 2593.1 | 2587.7 | 2564.0 | 2572.6 | 2554.3 | 2600.7 | 2602.8 | 2603.9 | 2626.5 |
| 15° | 2665.4 | 2628.7 | 2634.1 | 2606.0 | 2602.8 | 2593.1 | 2635.2 | 2633.0 | 2631.9 | 2663.2 |
| 17.5° | 2724.7 | 2552.1 | 2524.1 | 2504.7 | 2500.3 | 2476.6 | 2515.4 | 2589.9 | 2551.0 | 2529.5 |
| 20° | 2630.9 | 2540.2 | 2429.1 | 2391.4 | 2383.8 | 2177.8 | 2014.9 | 2088.3 | 2187.5 | 2196.2 |
| 22.5° | 2545.6 | 2513.3 | 2504.7 | 2445.3 | 2116.3 | 2047.3 | 2053.8 | 2026.8 | 1791.7 | 1689.2 |
| 25° | 2651.4 | 2623.3 | 2586.6 | 2224.2 | 2146.5 | 2121.7 | 2114.2 | 1838.0 | 1652.5 | 1664.4 |
| 27.5° | 2768.9 | 2737.6 | 2418.4 | 2229.6 | 2246.9 | 2212.3 | 2041.9 | 1715.1 | 1704.3 | 1724.8 |
| 30° | 2915.6 | 2665.4 | 2360.1 | 2349.3 | 2365.5 | 2321.3 | 1814.3 | 1790.6 | 1787.3 | 1808.9 |
| 32.5° | 3082.8 | 2570.5 | 2515.4 | 2515.4 | 2507.9 | 2030.0 | 1911.4 | 1895.2 | 1903.8 | 1926.5 |
| 35° | 3020.3 | 2719.3 | 2712.8 | 2739.8 | 2558.6 | 2082.9 | 2066.7 | 2038.7 | 2045.1 | 2052.7 |
| 37.5° | 2951.2 | 2964.2 | 2967.4 | 2953.4 | 1866.1 | 2233.9 | 2221.0 | 2215.6 | 2209.1 | 2211.3 |
| 40° | 3207.9 | 3216.6 | 3213.3 | 3085.0 | 2013.9 | 2263.0 | 2395.7 | 2386.0 | 2384.9 | 2397.9 |
| 42.5° | 3507.8 | 3531.5 | 3513.2 | 2721.5 | 2211.3 | 1902.8 | 2597.4 | 2592.0 | 2589.9 | 2616.8 |
| 45° | 3845.4 | 3868.1 | 3483.0 | 2914.5 | 2421.6 | 1969.6 | 2611.4 | 2812.1 | 2828.3 | 2852.0 |
| 47.5° | 4211.1 | 4206.8 | 3214.4 | 3211.2 | 2668.6 | 2155.2 | 2171.3 | 3075.3 | 3102.2 | 3110.9 |
| 50° | 4631.8 | 3940.4 | 3519.7 | 3401.0 | 2948.0 | 2363.3 | 2301.9 | 2821.8 | 3417.2 | 3425.8 |
| 52.5° | 4542.2 | 3898.3 | 3870.2 | 2983.6 | 3198.2 | 2593.1 | 2532.7 | 2516.5 | 3542.3 | 3750.5 |
| 55° | 4233.7 | 4266.1 | 4226.2 | 3273.7 | 2345.0 | 2798.0 | 2760.3 | 2744.1 | 2635.2 | 2086.1 |
| 57.5° | 4576.8 | 4586.5 | 4552.0 | 3540.2 | 2384.9 | 1744.2 | 2717.1 | 2331.0 | 1514.4 | 1506.9 |
| 60° | 4932.7 | 4948.9 | 3390.2 | 2600.7 | 1528.5 | 583.6 | 139.1 | 146.7 | 418.5 | 367.8 |
| 62.5° | 5272.5 | 5288.7 | 3588.7 | 2376.3 | 965.4 | 43.1 | 28.0 | 19.4 | 21.6 | 21.6 |
| 65° | 5715.8 | 5722.3 | 3841.1 | 2515.4 | 1003.2 | 10.8 | 3.2 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5945.6 | 5812.9 | 3904.8 | 2579.1 | 1030.1 | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 |
| 70° | 5598.3 | 5455.9 | 3635.1 | 2417.3 | 960.0 | 5.4 | 1.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4932.7 | 4863.7 | 3263.0 | 2143.3 | 850.0 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 75° | 4088.1 | 3996.4 | 2705.3 | 1786.3 | 703.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2908.1 | 2918.9 | 1885.5 | 1301.9 | 478.9 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1272.8 | 1301.9 | 826.3 | 597.6 | 169.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 242.7 | 223.3 | 107.9 | 85.2 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 79.8 | 87.4 | 39.9 | 32.4 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 28.0 | 35.6 | 11.9 | 9.7 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 4.3 | 4.3 | 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)