

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: McGRAW-EDISON

Report Number: P579428

Luminaire Tested: **CTN-CA10-210-730-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-210-730-U-T5N-HSS-HM-EX180
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: 23213 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U2 - G3

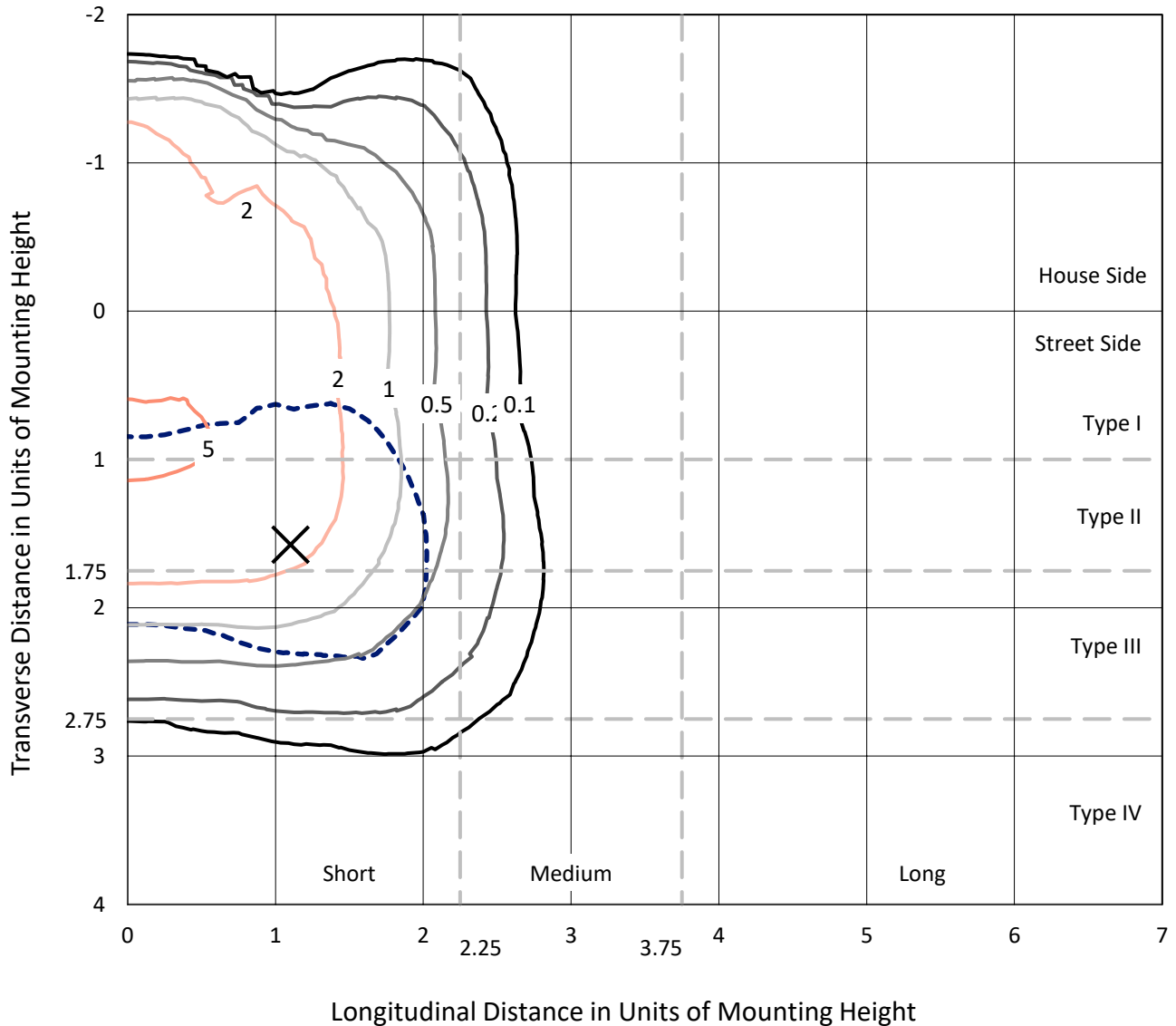
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

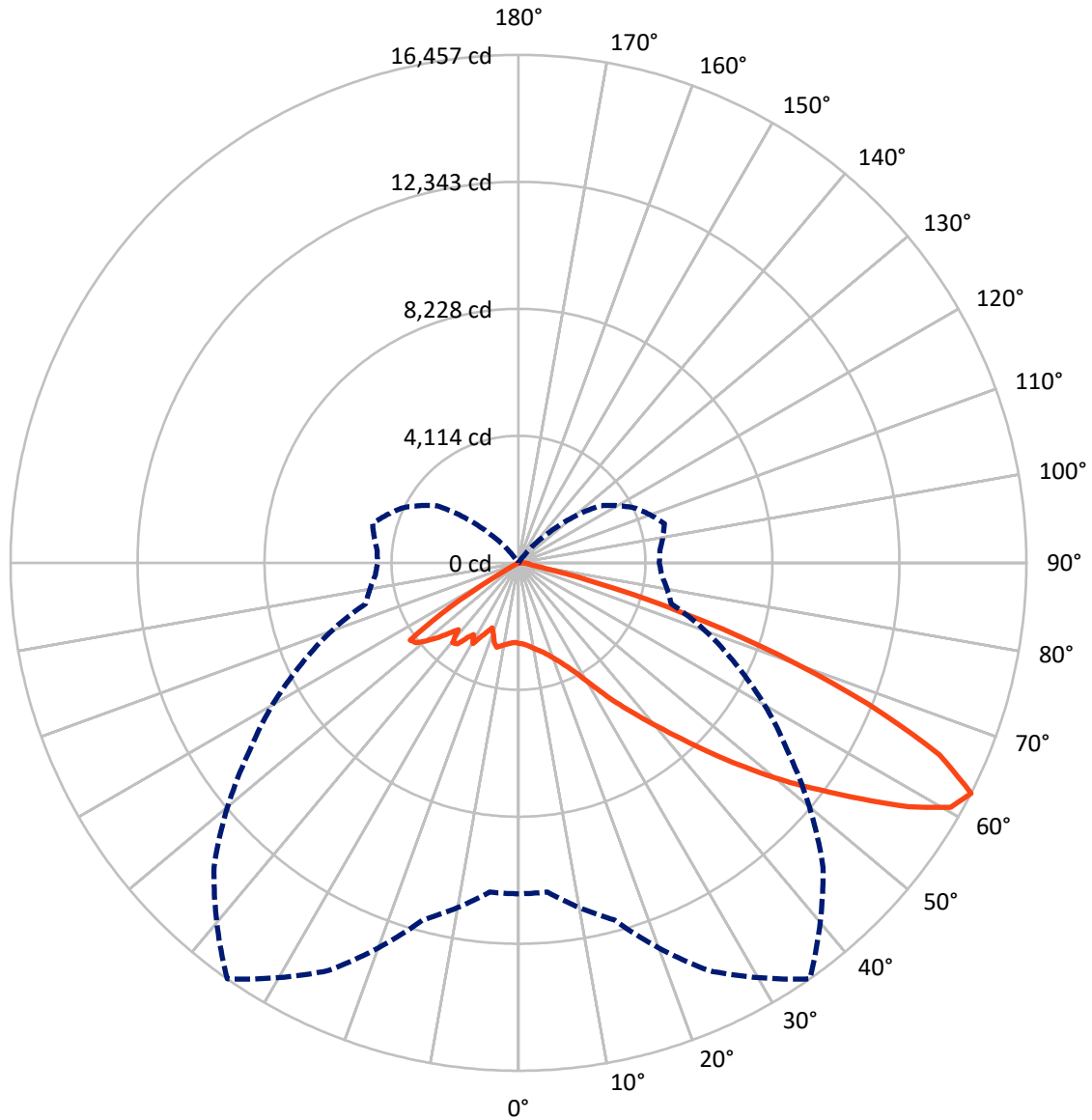
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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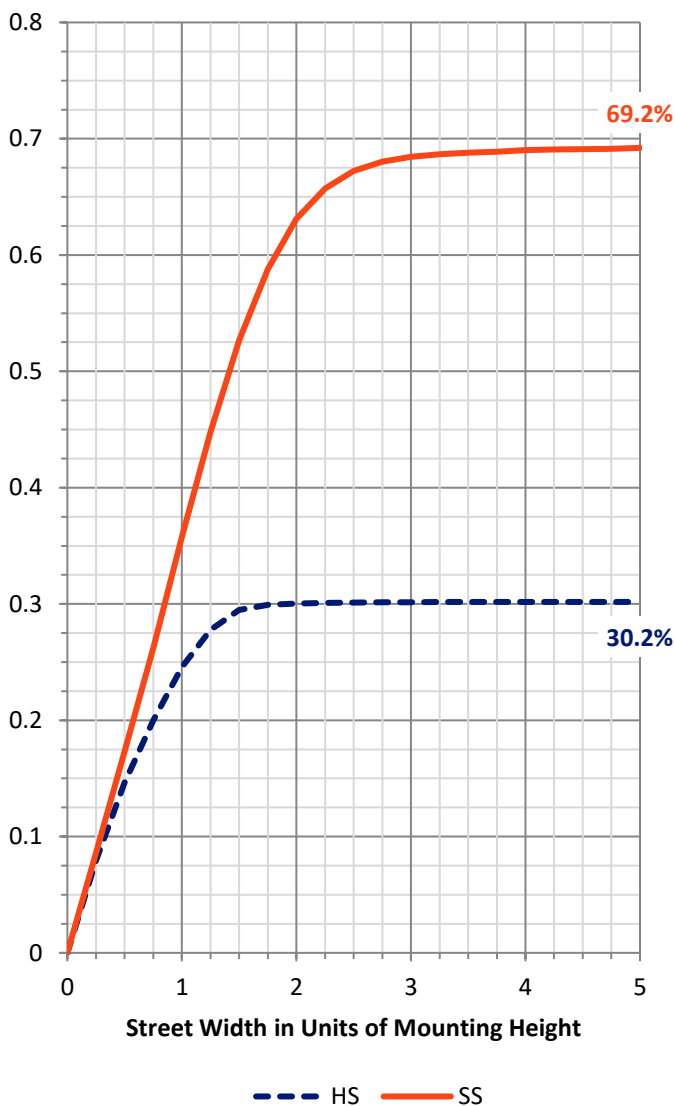
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7045.2 | 0.0 | 7045.2 |
| | % Fixture | 30.4 | 0.0 | 30.4 |
| Street Side | Lumens | 16147.6 | 20.2 | 16167.8 |
| | % Fixture | 69.6 | 0.1 | 69.6 |
| Total | Lumens | 23192.8 | 20.2 | 23213.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.9 | 1.1 |
| 10°-20° | 827.8 | 3.6 |
| 20°-30° | 1513.0 | 6.5 |
| 30°-40° | 2883.2 | 12.4 |
| 40°-50° | 4948.8 | 21.3 |
| 50°-60° | 6638.9 | 28.6 |
| 60°-70° | 5046.9 | 21.7 |
| 70°-80° | 955.6 | 4.1 |
| 80°-90° | 120.7 | 0.5 |
| 90°-100° | 17.7 | 0.1 |
| 100°-110° | 2.4 | 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° | 23192.8 | 99.9 |
| 0°-180° | 23213.0 | 100.0 |

Coefficient of Utilization

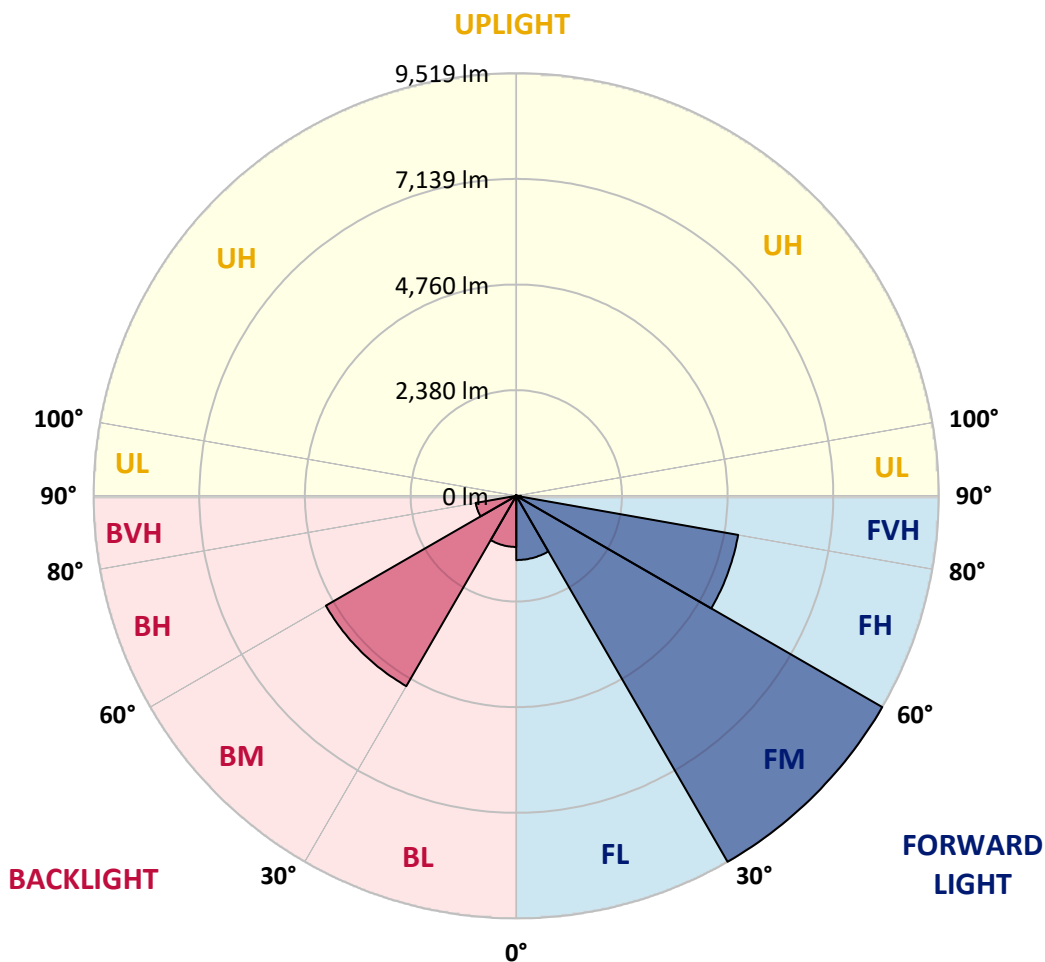


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1447.0 | 6.2 | | | |
| FM (30°-60°) | 9519.3 | 41.0 | | | |
| FH (60°-80°) | 5074.8 | 21.9 | | | G3/7500 |
| FVH (80°-90°) | 106.5 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1151.6 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 4951.7 | 21.3 | B3/5000 | | |
| BH (60°-80°) | 927.8 | 4.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 14.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 17.7 | 0.1 | | U2/50 | |
| UH (100°-180°) | 2.4 | 0.0 | | U1/10 | |

BUG Rating: B3-U2-G3
 Type III Short





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CATALOG NUMBER: CTN-CA10-210-730-U-T5N-HSS-HM-EX180

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 |
| 2.5° | 2678.6 | 2658.9 | 2660.0 | 2677.5 | 2627.2 | 2645.8 | 2623.9 | 2645.8 | 2633.8 | 2642.5 | 2646.9 |
| 5° | 2725.7 | 2706.0 | 2703.8 | 2722.4 | 2679.7 | 2692.9 | 2671.0 | 2686.3 | 2669.9 | 2680.8 | 2680.8 |
| 7.5° | 2796.8 | 2777.1 | 2770.5 | 2784.8 | 2745.4 | 2755.2 | 2732.2 | 2741.0 | 2722.4 | 2736.6 | 2729.0 |
| 10° | 2881.1 | 2859.2 | 2851.5 | 2859.2 | 2825.3 | 2830.7 | 2803.4 | 2813.2 | 2785.9 | 2802.3 | 2791.3 |
| 12.5° | 2970.8 | 2942.3 | 2942.3 | 2948.9 | 2912.8 | 2913.9 | 2888.7 | 2894.2 | 2866.8 | 2884.3 | 2871.2 |
| 15° | 3068.2 | 3036.4 | 3040.8 | 3047.4 | 3009.1 | 3015.6 | 2989.4 | 2998.1 | 2969.7 | 2987.2 | 2974.1 |
| 17.5° | 3197.3 | 3163.4 | 3159.0 | 3178.7 | 3142.6 | 3154.6 | 3125.1 | 3136.0 | 3110.8 | 3116.3 | 3109.7 |
| 20° | 3375.6 | 3333.0 | 3323.1 | 3349.4 | 3308.9 | 3317.6 | 3295.8 | 3317.6 | 3291.4 | 3252.0 | 3141.5 |
| 22.5° | 3589.0 | 3551.8 | 3535.4 | 3552.9 | 3504.8 | 3520.1 | 3519.0 | 3554.0 | 3481.8 | 3233.4 | 3122.9 |
| 25° | 3870.2 | 3845.1 | 3813.3 | 3815.5 | 3757.5 | 3780.5 | 3822.1 | 3849.4 | 3542.0 | 3324.2 | 3326.4 |
| 27.5° | 4245.5 | 4220.4 | 4176.6 | 4160.2 | 4075.9 | 4131.7 | 4196.3 | 3929.3 | 3687.5 | 3743.3 | 3712.7 |
| 30° | 4724.8 | 4720.4 | 4631.8 | 4603.3 | 4511.4 | 4581.5 | 4525.7 | 4068.3 | 4151.4 | 4229.1 | 4182.1 |
| 32.5° | 5362.7 | 5332.1 | 5204.1 | 5152.6 | 5056.3 | 5096.8 | 4604.4 | 4538.8 | 4662.4 | 4767.5 | 4718.2 |
| 35° | 6134.1 | 6041.1 | 5910.9 | 5809.2 | 5641.7 | 5416.3 | 4904.3 | 5032.3 | 5217.2 | 5361.6 | 5123.1 |
| 37.5° | 7030.3 | 6929.6 | 6726.1 | 6543.4 | 6279.7 | 5577.2 | 5356.2 | 5612.2 | 5844.2 | 5687.7 | 5137.3 |
| 40° | 7952.7 | 7863.0 | 7671.5 | 7436.3 | 6990.9 | 6076.2 | 5904.4 | 6210.7 | 6474.4 | 5578.3 | 5304.7 |
| 42.5° | 8868.6 | 8792.0 | 8637.7 | 8405.7 | 7832.4 | 6670.3 | 6505.1 | 6834.4 | 6586.1 | 5791.7 | 5782.9 |
| 45° | 9792.1 | 9753.8 | 9578.7 | 9380.7 | 8829.2 | 7430.8 | 7178.0 | 7435.2 | 6337.7 | 6302.7 | 6281.9 |
| 47.5° | 10540.5 | 10547.1 | 10485.8 | 10383.0 | 9892.8 | 8265.7 | 7936.3 | 7173.6 | 6639.7 | 6678.0 | 6687.8 |
| 50° | 11311.9 | 11262.7 | 11259.4 | 11266.0 | 11061.4 | 9341.3 | 8452.8 | 7055.5 | 7034.7 | 7031.4 | 7022.6 |
| 52.5° | 11930.2 | 11867.8 | 11996.9 | 12099.8 | 12221.2 | 10541.6 | 8375.1 | 7455.9 | 7336.7 | 7295.1 | 7040.1 |
| 55° | 12433.5 | 12409.4 | 12619.5 | 12967.5 | 13508.0 | 11813.1 | 9062.3 | 7846.6 | 7608.0 | 6636.4 | 5986.4 |
| 57.5° | 12738.8 | 12773.8 | 13207.1 | 13891.0 | 14903.1 | 12866.8 | 9862.1 | 8242.7 | 6513.8 | 5845.3 | 5803.7 |
| 60° | 12154.5 | 12339.4 | 13076.9 | 14578.2 | 16082.7 | 13858.2 | 10457.4 | 8322.6 | 5861.7 | 5503.9 | 5420.7 |
| 62.5° | 10724.4 | 10706.8 | 11973.9 | 14578.2 | 16456.9 | 13956.7 | 10645.6 | 7756.9 | 5120.9 | 4654.8 | 4561.8 |
| 65° | 7590.5 | 7636.5 | 8990.0 | 13137.1 | 14991.8 | 12981.7 | 9819.4 | 6594.8 | 4084.7 | 3656.9 | 3531.0 |
| 67.5° | 4697.4 | 4694.2 | 6019.3 | 9675.0 | 12203.7 | 10868.8 | 8266.8 | 5055.3 | 2835.1 | 2431.3 | 2294.6 |
| 70° | 1622.7 | 1668.7 | 2707.1 | 5661.4 | 8983.5 | 8515.1 | 6186.7 | 3191.8 | 1494.7 | 1065.8 | 899.4 |
| 72.5° | 645.6 | 660.9 | 971.7 | 2524.3 | 5612.2 | 5688.8 | 3759.7 | 1550.5 | 447.5 | 284.5 | 267.0 |
| 75° | 422.4 | 424.6 | 466.1 | 911.5 | 2723.5 | 3060.5 | 1746.4 | 445.3 | 207.9 | 190.4 | 186.0 |
| 77.5° | 364.4 | 365.5 | 387.4 | 461.8 | 887.4 | 1190.5 | 496.8 | 263.7 | 174.0 | 156.5 | 152.1 |
| 80° | 338.1 | 339.2 | 350.1 | 397.2 | 427.8 | 406.0 | 264.8 | 212.3 | 146.6 | 139.0 | 137.9 |
| 82.5° | 319.5 | 323.9 | 329.4 | 357.8 | 345.8 | 305.3 | 219.9 | 171.8 | 112.7 | 120.4 | 123.6 |
| 85° | 294.3 | 298.7 | 302.0 | 318.4 | 288.9 | 223.2 | 170.7 | 129.1 | 72.2 | 78.8 | 77.7 |
| 87.5° | 221.0 | 223.2 | 218.8 | 216.7 | 201.3 | 156.5 | 112.7 | 82.1 | 28.4 | 26.3 | 24.1 |
| 90° | 106.1 | 105.0 | 100.7 | 93.0 | 81.0 | 63.5 | 47.1 | 26.3 | 12.0 | 5.5 | 2.2 |
| 92.5° | 84.3 | 83.2 | 81.0 | 73.3 | 63.5 | 47.1 | 33.9 | 18.6 | 10.9 | 4.4 | 1.1 |
| 95° | 56.9 | 54.7 | 52.5 | 47.1 | 39.4 | 28.4 | 19.7 | 13.1 | 8.8 | 3.3 | 1.1 |
| 97.5° | 37.2 | 36.1 | 32.8 | 28.4 | 21.9 | 15.3 | 12.0 | 9.8 | 7.7 | 3.3 | 1.1 |
| 100° | 23.0 | 23.0 | 20.8 | 16.4 | 10.9 | 8.8 | 7.7 | 7.7 | 5.5 | 2.2 | 0.0 |
| 102.5° | 14.2 | 13.1 | 12.0 | 7.7 | 5.5 | 5.5 | 5.5 | 5.5 | 4.4 | 2.2 | 0.0 |
| 105° | 7.7 | 7.7 | 5.5 | 4.4 | 3.3 | 2.2 | 3.3 | 4.4 | 3.3 | 1.1 | 0.0 |
| 107.5° | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 0.0 | 1.1 | 2.2 | 2.2 | 1.1 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.2 | 1.1 | 0.0 |



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 CATALOG NUMBER: CTN-CA10-210-730-U-T5N-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: CTN-CA10-210-730-U-T5N-HSS-HM-EX180

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 | 2614.1 |
| 2.5° | 2641.4 | 2620.6 | 2626.1 | 2605.3 | 2602.0 | 2580.1 | 2617.4 | 2619.5 | 2609.7 | 2620.6 |
| 5° | 2675.3 | 2650.2 | 2660.0 | 2634.9 | 2630.5 | 2602.0 | 2631.6 | 2628.3 | 2620.6 | 2629.4 |
| 7.5° | 2723.5 | 2698.3 | 2703.8 | 2674.3 | 2668.8 | 2637.0 | 2665.5 | 2654.6 | 2644.7 | 2656.7 |
| 10° | 2790.2 | 2761.8 | 2766.2 | 2731.1 | 2726.8 | 2689.6 | 2722.4 | 2706.0 | 2691.8 | 2708.2 |
| 12.5° | 2872.3 | 2835.1 | 2830.7 | 2793.5 | 2790.2 | 2755.2 | 2789.1 | 2772.7 | 2758.5 | 2784.8 |
| 15° | 2966.4 | 2917.2 | 2910.6 | 2863.5 | 2858.1 | 2822.0 | 2854.8 | 2830.7 | 2819.8 | 2853.7 |
| 17.5° | 3092.2 | 2918.3 | 2820.9 | 2751.9 | 2712.5 | 2692.9 | 2751.9 | 2831.8 | 2807.7 | 2808.8 |
| 20° | 3040.8 | 2853.7 | 2723.5 | 2664.4 | 2621.7 | 2431.3 | 2168.7 | 2244.2 | 2397.4 | 2472.9 |
| 22.5° | 3025.5 | 2959.8 | 2906.2 | 2806.6 | 2383.2 | 2276.0 | 2291.3 | 2273.8 | 1984.9 | 1874.4 |
| 25° | 3318.7 | 3243.2 | 3127.3 | 2605.3 | 2482.8 | 2458.7 | 2467.4 | 2165.4 | 1947.7 | 1979.4 |
| 27.5° | 3694.1 | 3616.4 | 3044.1 | 2751.9 | 2727.9 | 2696.1 | 2523.2 | 2145.7 | 2175.3 | 2205.9 |
| 30° | 4166.8 | 3758.6 | 3174.3 | 3084.6 | 3039.7 | 3006.9 | 2365.7 | 2396.3 | 2445.6 | 2483.9 |
| 32.5° | 4627.4 | 3746.6 | 3547.4 | 3435.8 | 3380.0 | 2743.2 | 2673.2 | 2744.3 | 2794.6 | 2824.2 |
| 35° | 4632.9 | 4175.5 | 3965.4 | 3822.1 | 3467.6 | 2948.9 | 3013.5 | 3132.7 | 3256.4 | 3279.3 |
| 37.5° | 4758.7 | 4661.3 | 4420.6 | 4240.1 | 2579.1 | 3291.4 | 3433.6 | 3570.4 | 3694.1 | 3701.7 |
| 40° | 5259.9 | 5154.8 | 4929.4 | 4532.2 | 2848.2 | 3357.0 | 3896.5 | 4050.8 | 4154.7 | 4149.2 |
| 42.5° | 5759.9 | 5687.7 | 5453.5 | 4027.8 | 3209.3 | 2908.4 | 4382.3 | 4484.1 | 4549.7 | 4595.7 |
| 45° | 6263.3 | 6191.0 | 5399.9 | 4422.8 | 3639.3 | 3185.2 | 4264.1 | 4840.8 | 4913.0 | 4936.0 |
| 47.5° | 6656.1 | 6477.7 | 4948.0 | 4946.9 | 4176.6 | 3539.8 | 3521.2 | 5162.5 | 5225.9 | 5209.5 |
| 50° | 7019.4 | 5782.9 | 5348.5 | 5118.7 | 4732.5 | 3873.5 | 3744.4 | 4344.0 | 5509.3 | 5485.3 |
| 52.5° | 6386.9 | 5612.2 | 5692.1 | 4655.9 | 5178.9 | 4205.1 | 3996.1 | 3895.4 | 5006.0 | 5650.5 |
| 55° | 5711.8 | 5821.2 | 6043.3 | 5115.4 | 3757.5 | 4312.3 | 4209.4 | 4009.2 | 3377.8 | 2842.8 |
| 57.5° | 5828.9 | 5991.9 | 6002.8 | 5541.1 | 3888.8 | 2693.9 | 3450.0 | 3020.0 | 1908.3 | 1912.7 |
| 60° | 5438.2 | 5650.5 | 4387.8 | 3694.1 | 2091.0 | 561.3 | 54.7 | 48.1 | 332.6 | 404.9 |
| 62.5° | 4597.9 | 4893.3 | 4188.6 | 3218.1 | 1341.5 | 20.8 | 5.5 | 1.1 | 0.0 | 0.0 |
| 65° | 3560.6 | 3916.2 | 3539.8 | 2777.1 | 1190.5 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2348.2 | 2668.8 | 2689.6 | 2323.0 | 992.4 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 983.7 | 1385.3 | 1674.1 | 1726.7 | 780.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 284.5 | 439.9 | 805.3 | 1037.3 | 495.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 189.3 | 202.4 | 233.1 | 467.2 | 247.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 156.5 | 159.8 | 133.5 | 128.0 | 71.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 142.2 | 140.1 | 107.2 | 75.5 | 26.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 131.3 | 124.7 | 77.7 | 39.4 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 88.6 | 87.5 | 35.0 | 24.1 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 24.1 | 30.6 | 7.7 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 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)