

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: P579618

Luminaire Tested: **CTN-CA10-210-727-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-210-727-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23860 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

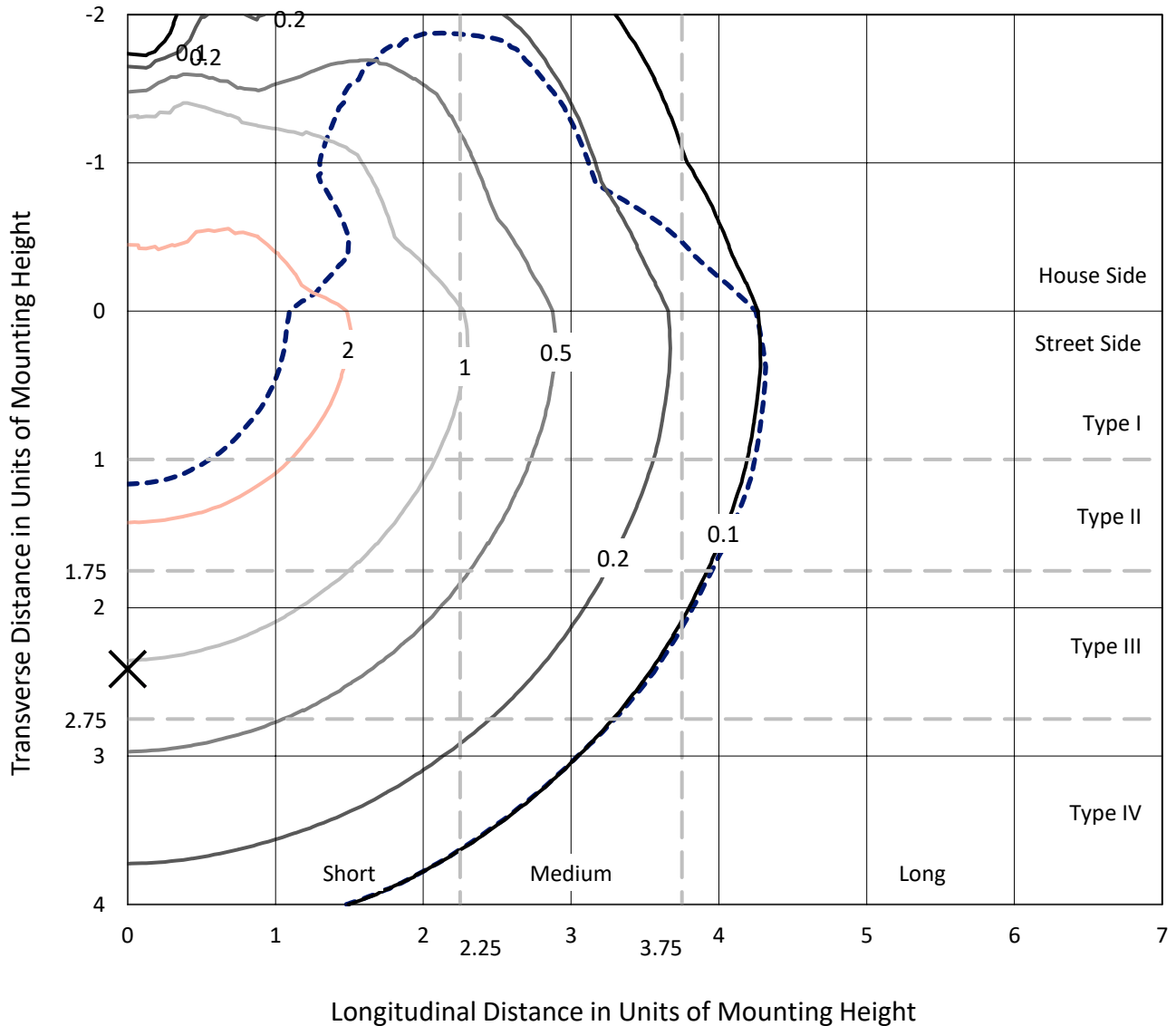
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

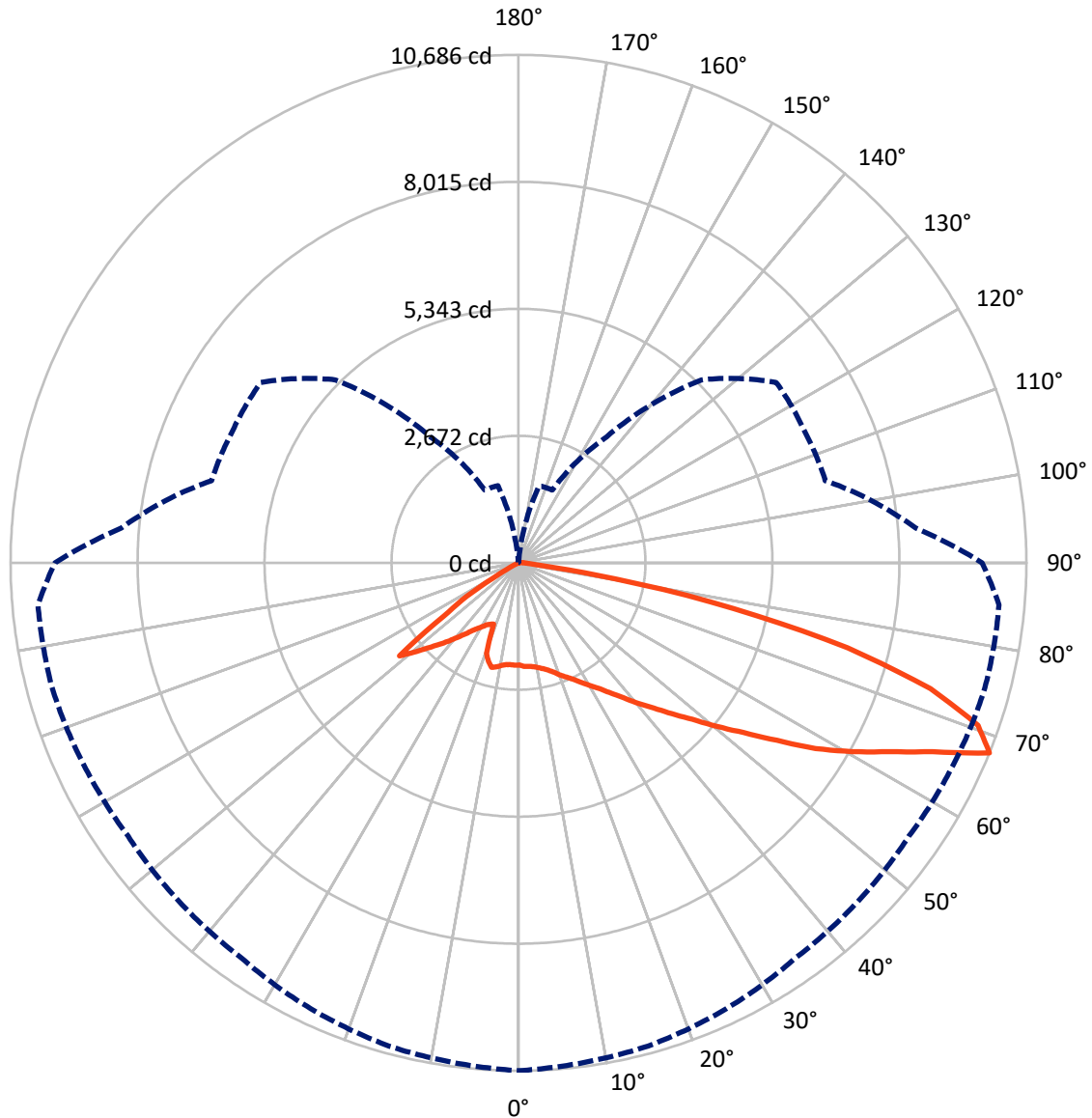
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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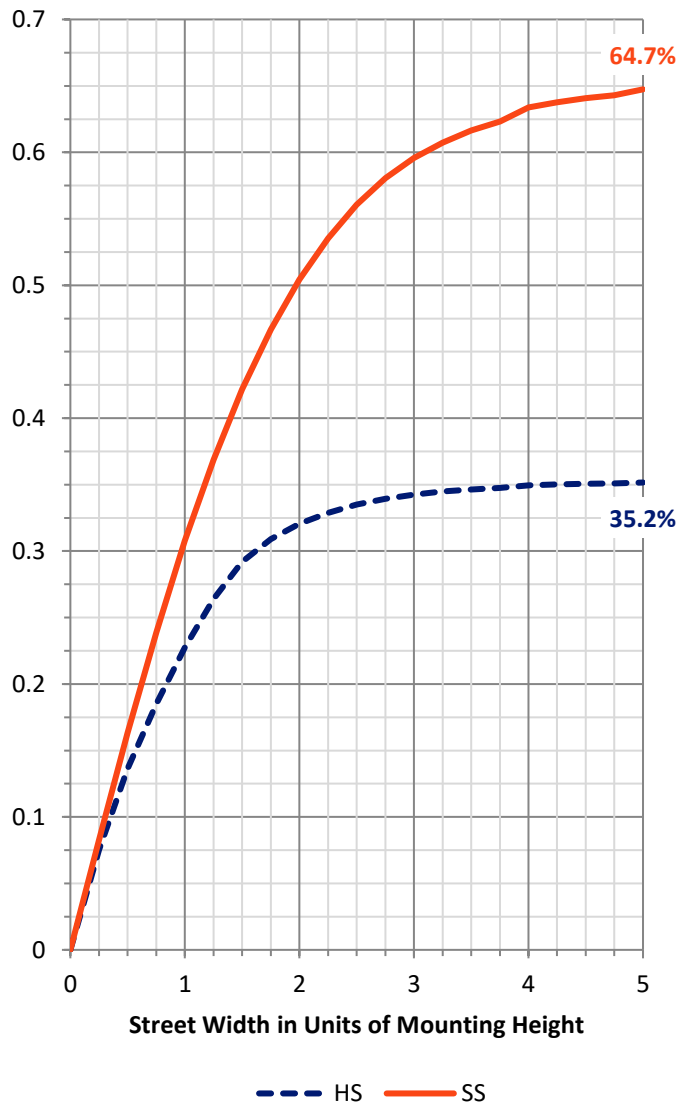
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8398.7 | 0.5 | 8399.2 |
| | % Fixture | 35.2 | 0.0 | 35.2 |
| Street Side | Lumens | 15444.0 | 16.8 | 15460.8 |
| | % Fixture | 64.7 | 0.1 | 64.8 |
| Total | Lumens | 23842.7 | 17.3 | 23860.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 206.8 | 0.9 |
| 10°-20° | 642.6 | 2.7 |
| 20°-30° | 1114.1 | 4.7 |
| 30°-40° | 1828.1 | 7.7 |
| 40°-50° | 3049.3 | 12.8 |
| 50°-60° | 4934.9 | 20.7 |
| 60°-70° | 6811.8 | 28.5 |
| 70°-80° | 4914.4 | 20.6 |
| 80°-90° | 340.6 | 1.4 |
| 90°-100° | 14.8 | 0.1 |
| 100°-110° | 2.5 | 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° | 23842.7 | 99.9 |
| 0°-180° | 23860.0 | 100.0 |

Coefficient of Utilization

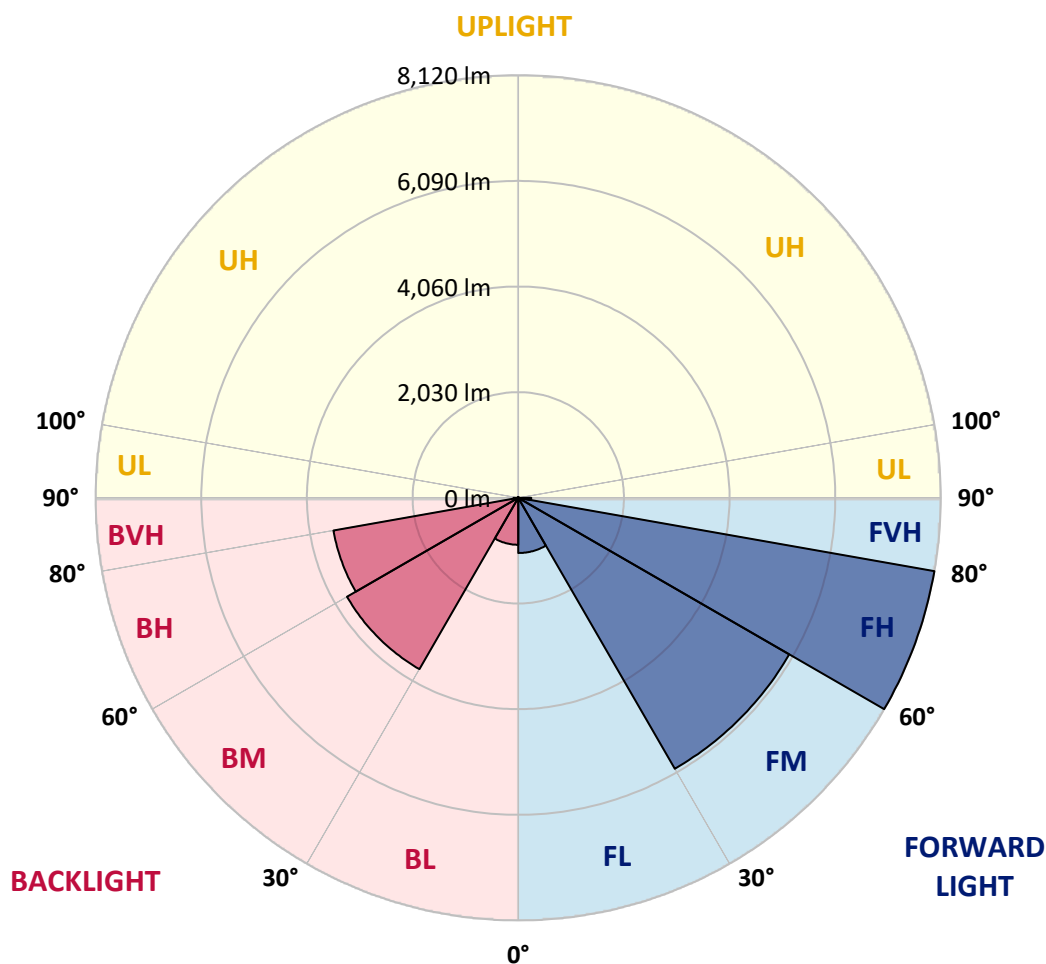


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1061.0 | 4.4 | | | |
| FM (30°-60°) | 6012.1 | 25.2 | | | |
| FH (60°-80°) | 8119.9 | 34.0 | | | G4/12000 |
| FVH (80°-90°) | 251.0 | 1.1 | | | G3/500 |
| BL (0°-30°) | 902.6 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 3800.2 | 15.9 | B3/5000 | | |
| BH (60°-80°) | 3606.3 | 15.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 89.6 | 0.4 | | | G1/100 |
| UL (90°-100°) | 14.8 | 0.1 | | U2/50 | |
| UH (100°-180°) | 2.6 | 0.0 | | U1/10 | |

BUG Rating: B4-U2-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 |
| 2.5° | 2183.1 | 2170.3 | 2171.2 | 2184.0 | 2149.3 | 2162.1 | 2147.5 | 2160.3 | 2153.9 | 2158.4 | 2163.9 |
| 5° | 2189.5 | 2174.0 | 2175.8 | 2191.3 | 2163.9 | 2174.0 | 2156.6 | 2163.9 | 2158.4 | 2163.9 | 2164.8 |
| 7.5° | 2205.9 | 2190.4 | 2191.3 | 2203.2 | 2174.9 | 2182.2 | 2165.7 | 2169.4 | 2160.3 | 2170.3 | 2167.6 |
| 10° | 2240.6 | 2226.0 | 2220.5 | 2230.6 | 2205.9 | 2206.8 | 2187.7 | 2191.3 | 2177.6 | 2191.3 | 2185.8 |
| 12.5° | 2287.2 | 2267.1 | 2268.9 | 2274.4 | 2244.3 | 2246.1 | 2223.3 | 2228.8 | 2205.9 | 2225.1 | 2218.7 |
| 15° | 2343.8 | 2319.2 | 2321.9 | 2331.1 | 2301.8 | 2299.1 | 2278.1 | 2278.1 | 2258.0 | 2272.6 | 2266.2 |
| 17.5° | 2422.4 | 2395.0 | 2393.2 | 2399.6 | 2375.8 | 2375.8 | 2352.1 | 2349.3 | 2329.2 | 2341.1 | 2339.3 |
| 20° | 2524.7 | 2493.7 | 2488.2 | 2500.0 | 2469.9 | 2473.6 | 2443.4 | 2440.7 | 2418.8 | 2426.1 | 2427.0 |
| 22.5° | 2617.0 | 2592.3 | 2591.4 | 2609.7 | 2574.0 | 2578.6 | 2551.2 | 2543.9 | 2525.6 | 2535.7 | 2538.4 |
| 25° | 2722.9 | 2719.3 | 2716.5 | 2722.9 | 2687.3 | 2687.3 | 2668.1 | 2661.7 | 2649.8 | 2657.2 | 2664.5 |
| 27.5° | 2856.3 | 2854.5 | 2847.1 | 2848.1 | 2817.9 | 2822.5 | 2801.5 | 2797.8 | 2792.3 | 2791.4 | 2787.8 |
| 30° | 3003.3 | 2995.1 | 2985.1 | 2991.5 | 2977.8 | 2982.3 | 2964.1 | 2952.2 | 2950.4 | 2951.3 | 2945.8 |
| 32.5° | 3166.8 | 3155.9 | 3149.5 | 3160.5 | 3165.9 | 3178.7 | 3177.8 | 3144.9 | 3144.9 | 3158.6 | 3134.0 |
| 35° | 3369.6 | 3352.3 | 3357.8 | 3372.4 | 3383.3 | 3416.2 | 3410.7 | 3387.9 | 3395.2 | 3401.6 | 3372.4 |
| 37.5° | 3608.0 | 3596.2 | 3620.8 | 3648.2 | 3649.1 | 3695.7 | 3684.8 | 3690.2 | 3689.3 | 3681.1 | 3661.9 |
| 40° | 3893.9 | 3874.8 | 3900.3 | 3921.3 | 3908.5 | 3964.3 | 3962.4 | 3987.1 | 4003.5 | 4031.9 | 4020.9 |
| 42.5° | 4178.0 | 4163.4 | 4188.1 | 4233.7 | 4226.4 | 4290.4 | 4299.5 | 4337.9 | 4360.7 | 4404.5 | 4379.0 |
| 45° | 4527.8 | 4519.6 | 4542.5 | 4578.1 | 4602.8 | 4687.7 | 4721.5 | 4737.9 | 4795.5 | 4848.5 | 4789.1 |
| 47.5° | 4919.7 | 4930.7 | 4927.0 | 4991.9 | 5046.7 | 5149.9 | 5163.6 | 5216.6 | 5266.8 | 5325.3 | 5267.7 |
| 50° | 5407.5 | 5389.2 | 5405.7 | 5467.8 | 5557.3 | 5632.2 | 5702.5 | 5778.3 | 5827.7 | 5887.9 | 5782.0 |
| 52.5° | 5932.7 | 5948.2 | 5984.8 | 6080.7 | 6146.4 | 6235.0 | 6299.0 | 6389.4 | 6437.8 | 6489.9 | 6352.0 |
| 55° | 6594.9 | 6607.7 | 6647.9 | 6746.6 | 6793.1 | 6893.6 | 6937.5 | 7027.9 | 7074.5 | 7097.3 | 6921.0 |
| 57.5° | 7371.3 | 7328.4 | 7361.3 | 7412.4 | 7484.6 | 7593.3 | 7605.2 | 7690.1 | 7690.1 | 7719.4 | 7494.7 |
| 60° | 8064.6 | 8035.4 | 8070.1 | 8143.2 | 8171.5 | 8270.2 | 8260.1 | 8329.5 | 8347.8 | 8325.9 | 8057.3 |
| 62.5° | 8747.9 | 8753.4 | 8798.1 | 8821.9 | 8810.9 | 8869.4 | 8893.1 | 8966.2 | 8936.0 | 8943.3 | 8633.7 |
| 65° | 9577.3 | 9590.1 | 9585.5 | 9541.6 | 9443.0 | 9558.1 | 9551.7 | 9667.7 | 9675.0 | 9740.8 | 9380.9 |
| 67.5° | 10686.2 | 10629.5 | 10526.3 | 10350.0 | 10154.5 | 10087.0 | 10027.6 | 10085.1 | 10159.1 | 10147.2 | 9752.6 |
| 70° | 10255.0 | 10162.8 | 10108.9 | 9955.4 | 9694.2 | 9559.0 | 9435.7 | 9445.7 | 9553.5 | 9563.6 | 9159.8 |
| 72.5° | 9065.7 | 9019.2 | 8811.8 | 8677.5 | 8498.5 | 8394.4 | 8245.5 | 8279.3 | 8420.0 | 8443.7 | 8122.2 |
| 75° | 7151.2 | 7108.3 | 6921.0 | 6877.2 | 6788.6 | 6839.7 | 6803.2 | 6816.9 | 6930.2 | 6826.0 | 6633.3 |
| 77.5° | 4628.3 | 4638.4 | 4609.1 | 4708.7 | 4705.1 | 4707.8 | 4841.2 | 4854.9 | 4965.4 | 4901.4 | 4715.1 |
| 80° | 2075.3 | 2105.4 | 2176.7 | 2321.0 | 2233.3 | 2280.8 | 2332.0 | 2316.4 | 2427.9 | 2175.8 | 2266.2 |
| 82.5° | 420.2 | 434.8 | 410.1 | 428.4 | 400.1 | 414.7 | 435.7 | 403.7 | 400.1 | 370.9 | 344.4 |
| 85° | 216.5 | 219.2 | 218.3 | 213.7 | 188.2 | 173.6 | 167.2 | 140.7 | 127.0 | 124.2 | 115.1 |
| 87.5° | 140.7 | 142.5 | 137.9 | 137.0 | 120.6 | 110.5 | 98.6 | 83.1 | 69.4 | 48.4 | 40.2 |
| 90° | 85.9 | 85.9 | 81.3 | 76.7 | 68.5 | 61.2 | 49.3 | 35.6 | 21.0 | 8.2 | 4.6 |
| 92.5° | 57.5 | 57.5 | 55.7 | 53.0 | 47.5 | 41.1 | 32.0 | 21.0 | 10.0 | 3.7 | 1.8 |
| 95° | 36.5 | 36.5 | 35.6 | 34.7 | 31.1 | 26.5 | 20.1 | 12.8 | 6.4 | 2.7 | 0.9 |
| 97.5° | 23.7 | 23.7 | 23.7 | 22.8 | 21.0 | 18.3 | 13.7 | 8.2 | 4.6 | 1.8 | 0.9 |
| 100° | 14.6 | 15.5 | 14.6 | 14.6 | 13.7 | 11.9 | 9.1 | 5.5 | 3.7 | 1.8 | 0.9 |
| 102.5° | 8.2 | 8.2 | 9.1 | 9.1 | 8.2 | 7.3 | 5.5 | 4.6 | 2.7 | 1.8 | 0.9 |
| 105° | 3.7 | 3.7 | 4.6 | 4.6 | 4.6 | 3.7 | 3.7 | 2.7 | 1.8 | 1.8 | 0.9 |
| 107.5° | 0.9 | 0.9 | 0.9 | 1.8 | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 | 0.9 | 0.9 |
| 110° | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 | 1.8 | 0.9 | 0.9 |



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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-CA10-210-727-U-T5-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 | 2150.2 |
| 2.5° | 2158.4 | 2147.5 | 2155.7 | 2142.0 | 2138.3 | 2126.5 | 2149.3 | 2152.9 | 2151.1 | 2154.8 |
| 5° | 2160.3 | 2146.5 | 2156.6 | 2142.9 | 2142.0 | 2129.2 | 2152.9 | 2153.9 | 2147.5 | 2150.2 |
| 7.5° | 2165.7 | 2152.9 | 2160.3 | 2144.7 | 2146.5 | 2131.0 | 2158.4 | 2157.5 | 2153.9 | 2160.3 |
| 10° | 2185.8 | 2171.2 | 2174.0 | 2157.5 | 2162.1 | 2145.6 | 2179.4 | 2181.3 | 2177.6 | 2189.5 |
| 12.5° | 2220.5 | 2200.4 | 2206.8 | 2187.7 | 2191.3 | 2174.9 | 2216.0 | 2218.7 | 2218.7 | 2237.9 |
| 15° | 2268.0 | 2247.0 | 2260.7 | 2236.1 | 2237.0 | 2212.3 | 2243.4 | 2243.4 | 2247.0 | 2273.5 |
| 17.5° | 2337.5 | 2311.9 | 2330.1 | 2307.3 | 2164.8 | 2110.9 | 2216.9 | 2281.7 | 2174.0 | 2164.8 |
| 20° | 2423.3 | 2411.4 | 2421.5 | 2384.0 | 2152.9 | 1906.3 | 1714.5 | 1704.5 | 1917.3 | 2023.2 |
| 22.5° | 2528.4 | 2516.5 | 2521.1 | 2473.6 | 1921.8 | 1748.3 | 1745.6 | 1727.3 | 1461.5 | 1388.4 |
| 25° | 2651.7 | 2645.3 | 2635.2 | 2237.0 | 1986.7 | 1820.5 | 1798.5 | 1560.1 | 1407.6 | 1421.3 |
| 27.5° | 2784.1 | 2764.9 | 2426.1 | 2323.8 | 2086.3 | 1892.6 | 1768.4 | 1456.9 | 1451.4 | 1464.2 |
| 30° | 2932.1 | 2830.7 | 2483.6 | 2448.9 | 2202.3 | 1982.1 | 1539.1 | 1520.9 | 1520.9 | 1540.9 |
| 32.5° | 3120.3 | 2643.5 | 2643.5 | 2625.2 | 2345.7 | 1740.1 | 1620.4 | 1609.5 | 1622.2 | 1630.5 |
| 35° | 3091.9 | 2843.5 | 2872.7 | 2864.5 | 2540.2 | 1772.0 | 1751.0 | 1732.8 | 1735.5 | 1735.5 |
| 37.5° | 3101.1 | 3111.1 | 3145.8 | 3110.2 | 2216.0 | 1910.9 | 1877.1 | 1873.4 | 1876.2 | 1882.6 |
| 40° | 3387.9 | 3393.4 | 3406.2 | 3327.6 | 2381.3 | 2072.6 | 2026.0 | 2016.8 | 2026.0 | 2039.7 |
| 42.5° | 3696.6 | 3712.2 | 3726.8 | 3026.2 | 2612.4 | 2256.2 | 2209.6 | 2192.2 | 2208.7 | 2223.3 |
| 45° | 4062.0 | 4085.8 | 3862.0 | 3293.8 | 2873.6 | 2465.3 | 2416.0 | 2395.0 | 2405.0 | 2417.8 |
| 47.5° | 4473.0 | 4510.5 | 3641.8 | 3634.5 | 3180.5 | 2712.9 | 2656.2 | 2616.1 | 2631.6 | 2630.7 |
| 50° | 4937.1 | 4310.5 | 4023.6 | 4019.1 | 3523.1 | 2988.7 | 2930.3 | 2893.7 | 2905.6 | 2896.5 |
| 52.5° | 5438.5 | 4428.3 | 4437.4 | 4436.5 | 3881.1 | 3285.6 | 3231.7 | 3186.0 | 3091.9 | 3178.7 |
| 55° | 5951.9 | 4835.7 | 4870.4 | 4864.9 | 4256.6 | 3592.5 | 3535.0 | 3492.0 | 2281.7 | 1927.3 |
| 57.5° | 6462.5 | 5261.3 | 5272.3 | 5285.1 | 4645.7 | 3888.5 | 3635.4 | 3339.5 | 1301.6 | 1295.2 |
| 60° | 6966.7 | 5666.9 | 5688.8 | 5696.1 | 4855.8 | 3218.9 | 1486.1 | 1513.5 | 393.7 | 470.4 |
| 62.5° | 7489.2 | 6067.0 | 6087.1 | 6080.7 | 5064.9 | 2993.3 | 1561.0 | 1530.0 | 36.5 | 33.8 |
| 65° | 8156.0 | 6568.4 | 6540.1 | 6519.1 | 5394.7 | 3194.2 | 1677.0 | 1668.8 | 11.9 | 8.2 |
| 67.5° | 8389.8 | 6682.6 | 6625.1 | 6617.8 | 5442.2 | 3237.2 | 1686.2 | 1679.8 | 11.9 | 8.2 |
| 70° | 7860.0 | 6248.7 | 6150.1 | 6152.8 | 5064.0 | 3028.0 | 1572.9 | 1563.8 | 11.0 | 8.2 |
| 72.5° | 6883.6 | 5518.9 | 5477.8 | 5260.4 | 4385.4 | 2663.5 | 1394.8 | 1360.1 | 11.0 | 7.3 |
| 75° | 5651.4 | 4458.4 | 4367.1 | 4123.2 | 3490.2 | 2117.3 | 1095.2 | 1050.4 | 10.0 | 6.4 |
| 77.5° | 3923.2 | 3126.7 | 2952.2 | 2703.7 | 2334.7 | 1403.9 | 736.2 | 678.7 | 9.1 | 6.4 |
| 80° | 1778.4 | 1283.4 | 1289.8 | 988.3 | 791.9 | 475.9 | 233.8 | 211.9 | 8.2 | 5.5 |
| 82.5° | 309.7 | 228.4 | 214.7 | 207.3 | 172.6 | 116.9 | 71.2 | 61.2 | 7.3 | 3.7 |
| 85° | 107.8 | 86.8 | 95.9 | 113.3 | 100.5 | 70.3 | 43.8 | 42.0 | 4.6 | 1.8 |
| 87.5° | 36.5 | 38.4 | 44.8 | 53.9 | 47.5 | 27.4 | 16.4 | 11.9 | 0.9 | 0.0 |
| 90° | 3.7 | 4.6 | 4.6 | 4.6 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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|--------|-----|------|------|------|------|------|------|------|------|------|
| 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)