

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: P579646

Luminaire Tested: **CTN-CA8-230-727-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-230-727-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 2700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22315 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

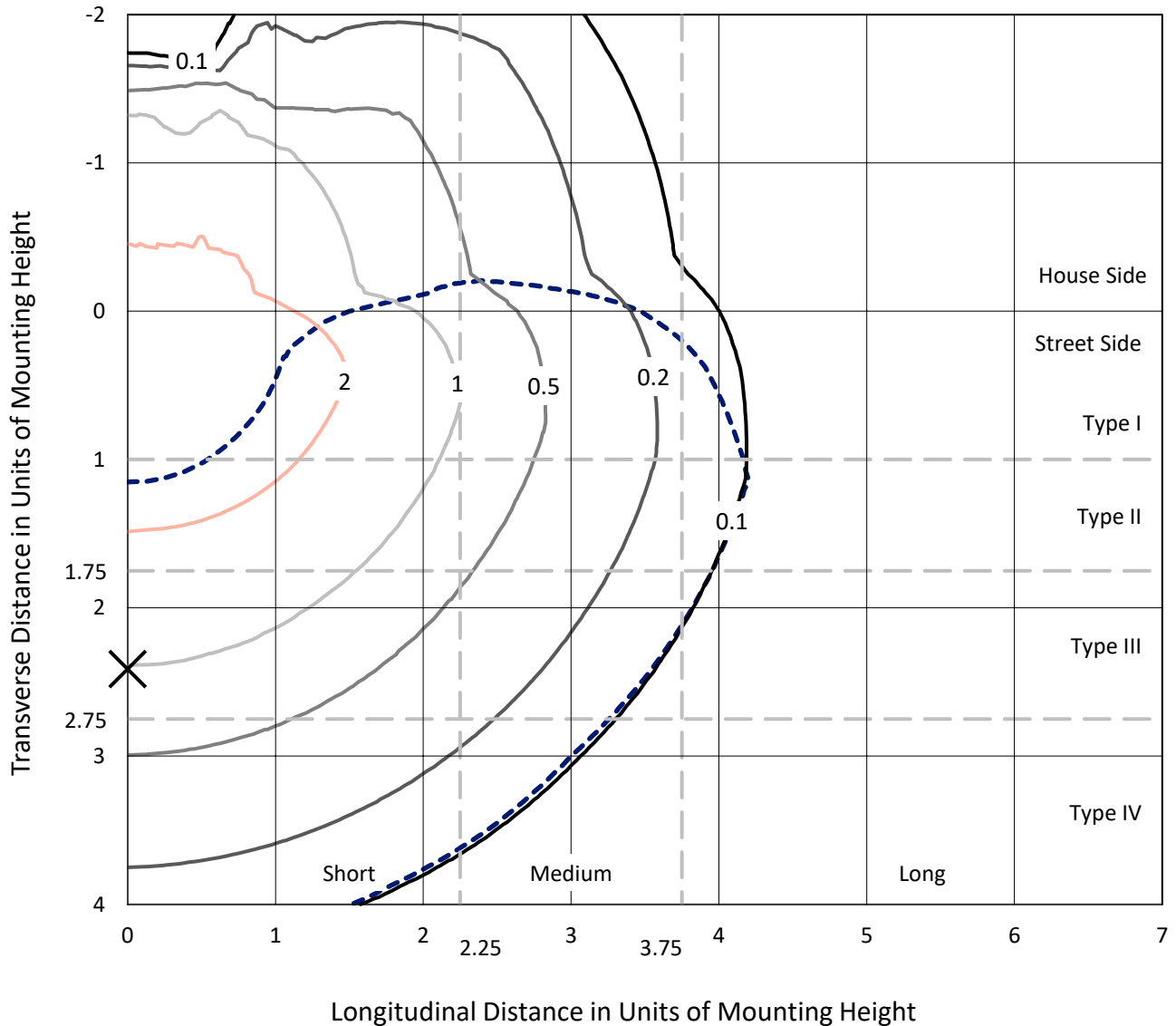
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

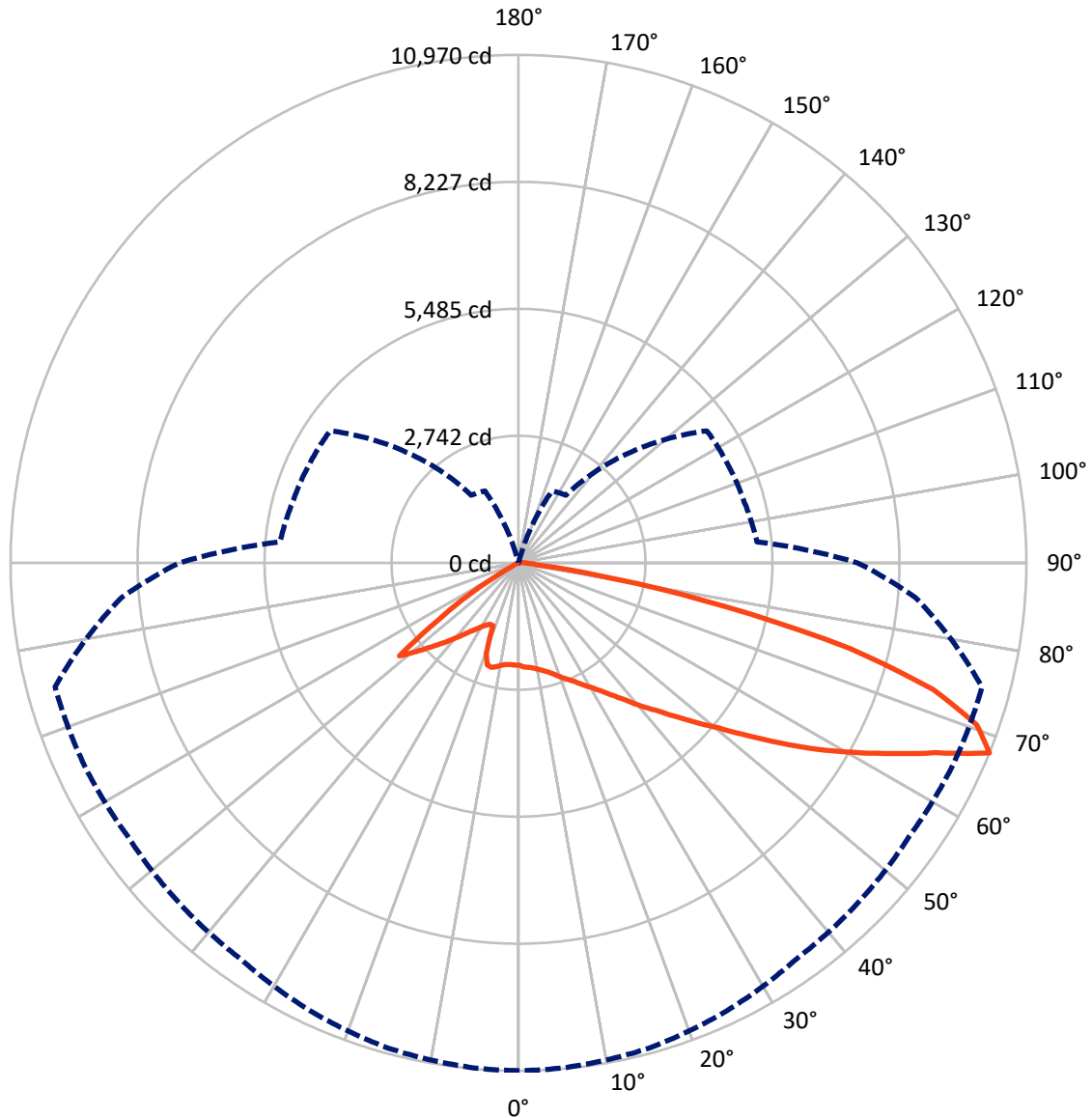
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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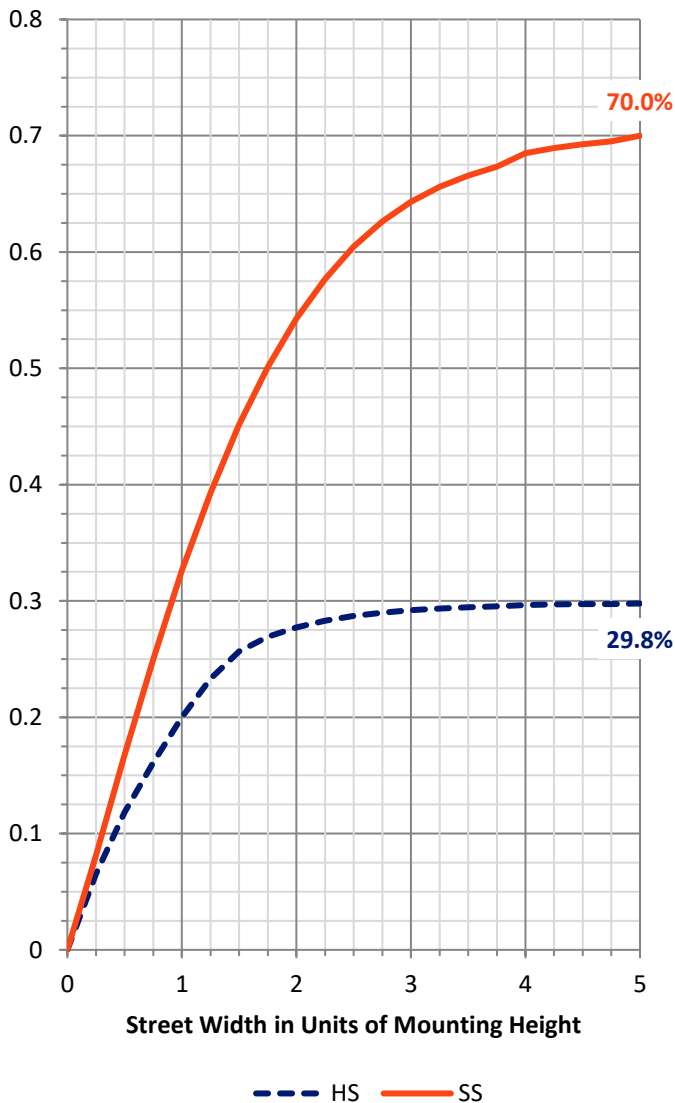
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6661.2 | 2.2 | 6663.4 |
| | % Fixture | 29.9 | 0.0 | 29.9 |
| Street Side | Lumens | 15626.5 | 25.1 | 15651.6 |
| | % Fixture | 70.0 | 0.1 | 70.1 |
| Total | Lumens | 22287.6 | 27.4 | 22315.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 213.2 | 1.0 |
| 10°-20° | 659.9 | 3.0 |
| 20°-30° | 1107.5 | 5.0 |
| 30°-40° | 1795.9 | 8.0 |
| 40°-50° | 2934.7 | 13.2 |
| 50°-60° | 4599.2 | 20.6 |
| 60°-70° | 6159.7 | 27.6 |
| 70°-80° | 4489.6 | 20.1 |
| 80°-90° | 327.9 | 1.5 |
| 90°-100° | 21.0 | 0.1 |
| 100°-110° | 6.0 | 0.0 |
| 110°-120° | 0.4 | 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° | 22287.6 | 99.9 |
| 0°-180° | 22315.0 | 100.0 |

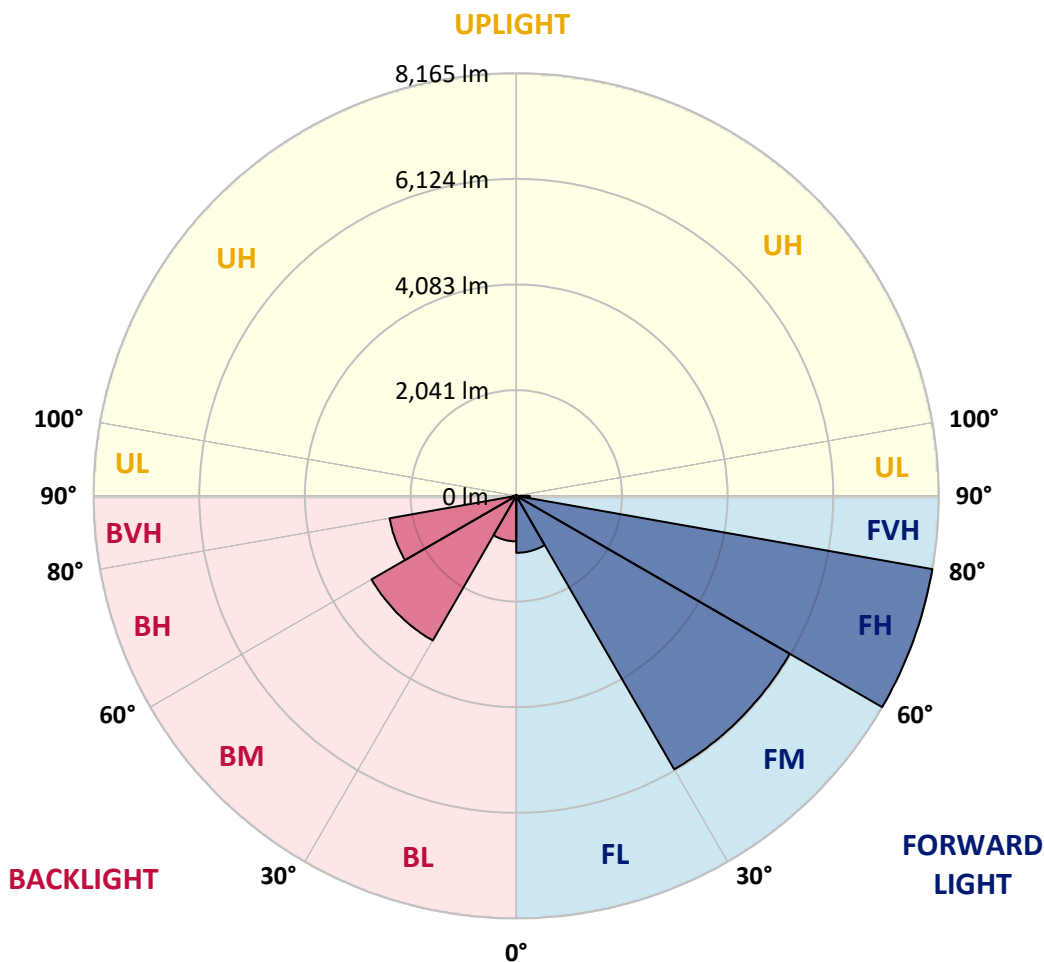


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1100.7 | 4.9 | | | |
| FM (30°-60°) | 6101.3 | 27.3 | | | |
| FH (60°-80°) | 8165.2 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 259.3 | 1.2 | | | G3/500 |
| BL (0°-30°) | 880.0 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 3228.5 | 14.5 | B3/5000 | | |
| BH (60°-80°) | 2484.1 | 11.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 68.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 21.0 | 0.1 | | U2/50 | |
| UH (100°-180°) | 6.4 | 0.0 | | U1/10 | |

BUG Rating: B3-U2-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 |
| 2.5° | 2253.4 | 2240.2 | 2241.2 | 2253.4 | 2216.8 | 2229.0 | 2213.0 | 2225.2 | 2216.8 | 2219.6 | 2225.2 |
| 5° | 2267.4 | 2253.4 | 2254.3 | 2269.3 | 2236.5 | 2246.8 | 2225.2 | 2231.8 | 2224.3 | 2228.0 | 2228.0 |
| 7.5° | 2295.6 | 2279.6 | 2278.7 | 2288.1 | 2254.3 | 2258.1 | 2238.4 | 2239.3 | 2228.0 | 2235.6 | 2231.8 |
| 10° | 2337.8 | 2324.7 | 2315.3 | 2320.9 | 2290.9 | 2289.0 | 2263.7 | 2264.6 | 2250.6 | 2259.0 | 2252.4 |
| 12.5° | 2389.4 | 2371.6 | 2369.7 | 2371.6 | 2338.7 | 2331.2 | 2305.0 | 2306.9 | 2281.5 | 2294.7 | 2287.1 |
| 15° | 2455.1 | 2426.9 | 2426.9 | 2437.2 | 2395.0 | 2389.4 | 2357.5 | 2359.4 | 2333.1 | 2343.4 | 2335.9 |
| 17.5° | 2535.8 | 2508.5 | 2503.9 | 2511.4 | 2474.8 | 2467.3 | 2434.4 | 2432.6 | 2403.5 | 2406.3 | 2399.7 |
| 20° | 2639.9 | 2612.7 | 2601.4 | 2620.2 | 2574.2 | 2568.6 | 2529.2 | 2525.4 | 2494.5 | 2486.0 | 2482.3 |
| 22.5° | 2736.5 | 2714.9 | 2709.3 | 2729.9 | 2682.1 | 2677.4 | 2639.9 | 2635.2 | 2606.1 | 2593.9 | 2519.8 |
| 25° | 2845.3 | 2840.6 | 2838.8 | 2845.3 | 2800.3 | 2790.9 | 2761.8 | 2755.3 | 2730.9 | 2715.9 | 2625.8 |
| 27.5° | 2986.1 | 2984.2 | 2978.5 | 2979.5 | 2938.2 | 2929.8 | 2902.6 | 2897.9 | 2872.5 | 2855.7 | 2740.3 |
| 30° | 3133.3 | 3133.3 | 3121.1 | 3127.7 | 3107.1 | 3093.9 | 3072.4 | 3055.5 | 3039.5 | 3021.7 | 2876.3 |
| 32.5° | 3303.1 | 3302.2 | 3290.9 | 3310.6 | 3295.6 | 3295.6 | 3282.5 | 3264.7 | 3236.5 | 3228.1 | 3051.7 |
| 35° | 3521.7 | 3507.7 | 3503.0 | 3534.9 | 3530.2 | 3538.6 | 3533.9 | 3515.2 | 3491.7 | 3472.0 | 3258.1 |
| 37.5° | 3763.8 | 3760.0 | 3774.1 | 3793.8 | 3804.1 | 3826.6 | 3812.5 | 3811.6 | 3807.9 | 3758.1 | 3202.8 |
| 40° | 4062.1 | 4046.1 | 4065.8 | 4076.2 | 4068.7 | 4105.2 | 4093.0 | 4103.4 | 4131.5 | 3731.9 | 3199.0 |
| 42.5° | 4359.5 | 4345.4 | 4359.5 | 4410.1 | 4398.9 | 4443.0 | 4437.3 | 4477.7 | 4493.6 | 3787.2 | 3458.9 |
| 45° | 4725.3 | 4709.4 | 4720.6 | 4780.7 | 4786.3 | 4839.8 | 4868.9 | 4907.3 | 4914.8 | 4145.6 | 3772.2 |
| 47.5° | 5145.6 | 5119.4 | 5140.9 | 5169.1 | 5254.4 | 5305.1 | 5333.2 | 5380.1 | 5428.0 | 4577.1 | 4128.7 |
| 50° | 5609.1 | 5607.2 | 5630.6 | 5679.4 | 5777.0 | 5827.6 | 5876.4 | 5925.2 | 6004.0 | 5058.4 | 4528.3 |
| 52.5° | 6198.2 | 6186.0 | 6226.3 | 6272.3 | 6358.6 | 6436.5 | 6494.6 | 6545.3 | 6629.7 | 5545.3 | 4960.8 |
| 55° | 6871.8 | 6829.6 | 6906.5 | 6984.3 | 7020.9 | 7112.9 | 7153.2 | 7195.4 | 7276.1 | 6057.5 | 5213.2 |
| 57.5° | 7598.8 | 7588.5 | 7642.0 | 7670.1 | 7748.9 | 7806.1 | 7827.7 | 7873.7 | 7872.7 | 6590.3 | 5642.8 |
| 60° | 8314.6 | 8303.3 | 8366.2 | 8383.1 | 8445.9 | 8497.5 | 8490.0 | 8531.3 | 8546.3 | 7090.4 | 6064.0 |
| 62.5° | 9067.9 | 9049.2 | 9107.3 | 9111.1 | 9073.5 | 9157.0 | 9148.6 | 9183.3 | 9170.2 | 7579.1 | 6478.7 |
| 65° | 9891.6 | 9905.7 | 9924.4 | 9847.5 | 9757.4 | 9829.7 | 9827.8 | 9893.5 | 9940.4 | 8262.1 | 7034.1 |
| 67.5° | 10969.5 | 10951.7 | 10855.0 | 10669.3 | 10450.7 | 10377.5 | 10299.7 | 10347.5 | 10360.7 | 8601.7 | 7318.3 |
| 70° | 10504.2 | 10464.8 | 10421.6 | 10232.1 | 9968.5 | 9782.8 | 9661.8 | 9712.4 | 9765.9 | 8128.9 | 6873.6 |
| 72.5° | 9370.0 | 9272.4 | 9071.7 | 8904.7 | 8752.7 | 8571.7 | 8424.4 | 8512.6 | 8629.8 | 7210.4 | 6086.6 |
| 75° | 7392.4 | 7301.4 | 7155.1 | 7041.6 | 6960.0 | 6958.1 | 6951.5 | 7020.0 | 7003.1 | 5854.8 | 4948.6 |
| 77.5° | 4578.1 | 4768.5 | 4903.6 | 4807.0 | 4840.7 | 4771.3 | 4924.2 | 5014.3 | 5095.9 | 4197.2 | 3525.5 |
| 80° | 2113.6 | 2162.4 | 2401.6 | 2339.7 | 2290.0 | 2275.9 | 2285.3 | 2441.9 | 2487.9 | 1883.8 | 1577.9 |
| 82.5° | 482.2 | 462.5 | 479.4 | 444.7 | 442.8 | 422.2 | 425.0 | 425.0 | 410.0 | 347.1 | 290.8 |
| 85° | 243.9 | 249.5 | 251.4 | 241.1 | 213.0 | 191.4 | 177.3 | 150.1 | 129.5 | 110.7 | 93.8 |
| 87.5° | 163.2 | 167.9 | 170.7 | 156.7 | 140.7 | 122.9 | 111.6 | 91.0 | 72.2 | 45.0 | 34.7 |
| 90° | 111.6 | 110.7 | 107.9 | 100.4 | 90.1 | 76.9 | 61.9 | 43.2 | 25.3 | 9.4 | 6.6 |
| 92.5° | 79.7 | 77.9 | 76.9 | 70.4 | 62.9 | 52.5 | 40.3 | 27.2 | 14.1 | 6.6 | 3.8 |
| 95° | 52.5 | 51.6 | 51.6 | 47.8 | 42.2 | 34.7 | 27.2 | 17.8 | 10.3 | 5.6 | 3.8 |
| 97.5° | 36.6 | 35.6 | 35.6 | 33.8 | 30.0 | 25.3 | 18.8 | 12.2 | 8.4 | 5.6 | 3.8 |
| 100° | 25.3 | 25.3 | 25.3 | 23.5 | 21.6 | 17.8 | 14.1 | 9.4 | 7.5 | 5.6 | 3.8 |
| 102.5° | 16.9 | 16.9 | 17.8 | 16.9 | 15.0 | 12.2 | 9.4 | 7.5 | 6.6 | 4.7 | 3.8 |
| 105° | 11.3 | 11.3 | 11.3 | 11.3 | 10.3 | 8.4 | 7.5 | 6.6 | 5.6 | 4.7 | 3.8 |
| 107.5° | 7.5 | 7.5 | 7.5 | 7.5 | 6.6 | 5.6 | 5.6 | 5.6 | 4.7 | 4.7 | 3.8 |
| 110° | 4.7 | 4.7 | 4.7 | 5.6 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 3.8 | 3.8 |



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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-CA8-230-727-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 | 2211.2 |
| 2.5° | 2220.5 | 2207.4 | 2214.0 | 2200.8 | 2195.2 | 2183.0 | 2206.5 | 2208.3 | 2206.5 | 2210.2 |
| 5° | 2223.4 | 2208.3 | 2215.9 | 2200.8 | 2198.0 | 2184.0 | 2207.4 | 2207.4 | 2201.8 | 2204.6 |
| 7.5° | 2229.9 | 2214.0 | 2219.6 | 2201.8 | 2201.8 | 2184.9 | 2213.0 | 2211.2 | 2206.5 | 2213.0 |
| 10° | 2252.4 | 2233.7 | 2233.7 | 2216.8 | 2218.7 | 2200.8 | 2235.6 | 2235.6 | 2231.8 | 2243.1 |
| 12.5° | 2287.1 | 2263.7 | 2264.6 | 2241.2 | 2244.9 | 2230.9 | 2273.1 | 2275.0 | 2275.0 | 2293.7 |
| 15° | 2332.2 | 2296.5 | 2300.3 | 2275.0 | 2282.5 | 2265.6 | 2303.1 | 2301.2 | 2305.9 | 2333.1 |
| 17.5° | 2387.5 | 2348.1 | 2315.3 | 2232.7 | 2184.0 | 2185.8 | 2297.5 | 2349.1 | 2289.0 | 2306.9 |
| 20° | 2411.0 | 2219.6 | 2115.5 | 2085.5 | 2078.9 | 1974.8 | 1761.8 | 1794.6 | 1995.4 | 2082.6 |
| 22.5° | 2253.4 | 2192.4 | 2182.1 | 2143.6 | 1859.4 | 1780.6 | 1793.7 | 1774.9 | 1577.9 | 1466.3 |
| 25° | 2330.3 | 2290.0 | 2266.5 | 1927.8 | 1864.1 | 1850.0 | 1840.6 | 1662.4 | 1448.5 | 1458.8 |
| 27.5° | 2439.1 | 2386.6 | 2105.2 | 1936.3 | 1948.5 | 1926.9 | 1872.5 | 1495.4 | 1488.8 | 1505.7 |
| 30° | 2567.6 | 2435.4 | 2051.7 | 2035.7 | 2049.8 | 2021.7 | 1574.2 | 1559.2 | 1559.2 | 1576.1 |
| 32.5° | 2725.3 | 2209.3 | 2177.4 | 2179.3 | 2169.9 | 1850.9 | 1656.7 | 1653.0 | 1664.2 | 1678.3 |
| 35° | 2681.2 | 2356.6 | 2359.4 | 2375.3 | 2353.8 | 1810.6 | 1786.2 | 1772.1 | 1781.5 | 1787.1 |
| 37.5° | 2594.9 | 2578.0 | 2578.0 | 2560.1 | 2009.5 | 1952.2 | 1926.0 | 1924.1 | 1923.2 | 1923.2 |
| 40° | 2812.5 | 2796.6 | 2776.9 | 2745.9 | 2102.3 | 2117.3 | 2077.9 | 2073.3 | 2076.1 | 2086.4 |
| 42.5° | 3060.2 | 3053.6 | 3051.7 | 2356.6 | 2295.6 | 2306.9 | 2264.6 | 2252.4 | 2252.4 | 2275.9 |
| 45° | 3351.9 | 3343.5 | 3136.2 | 2518.9 | 2508.5 | 2521.7 | 2474.8 | 2445.7 | 2461.6 | 2478.5 |
| 47.5° | 3686.8 | 3686.8 | 2776.9 | 2761.8 | 2761.8 | 2769.3 | 2722.4 | 2683.0 | 2699.0 | 2704.6 |
| 50° | 4053.6 | 3480.4 | 3055.5 | 3041.4 | 3054.5 | 3050.8 | 3002.0 | 2636.1 | 2974.8 | 2977.6 |
| 52.5° | 4155.9 | 3384.8 | 3361.3 | 3345.4 | 3361.3 | 3358.5 | 3307.8 | 2199.0 | 3217.8 | 3263.7 |
| 55° | 3684.0 | 3686.8 | 3682.1 | 3658.7 | 3675.6 | 3669.0 | 3619.3 | 2400.7 | 2372.5 | 2114.5 |
| 57.5° | 3983.3 | 3987.0 | 3985.2 | 3981.4 | 3996.4 | 2903.5 | 3748.7 | 2168.9 | 1324.6 | 1325.6 |
| 60° | 4308.8 | 4290.0 | 4284.4 | 4276.0 | 3624.0 | 2058.2 | 1562.0 | 151.0 | 517.8 | 510.3 |
| 62.5° | 4604.3 | 4597.8 | 4578.1 | 4573.4 | 3075.2 | 1621.1 | 1583.6 | 34.7 | 27.2 | 26.3 |
| 65° | 5015.2 | 4957.1 | 4941.1 | 4891.4 | 3277.8 | 1726.2 | 1690.5 | 10.3 | 0.9 | 0.0 |
| 67.5° | 5168.1 | 5049.9 | 4992.7 | 4966.4 | 3335.0 | 1780.6 | 1712.1 | 10.3 | 0.9 | 0.0 |
| 70° | 4879.2 | 4732.8 | 4660.6 | 4631.5 | 3116.5 | 1664.2 | 1596.7 | 10.3 | 0.9 | 0.0 |
| 72.5° | 4326.6 | 4218.8 | 4189.7 | 4096.8 | 2747.8 | 1460.7 | 1401.6 | 10.3 | 0.0 | 0.0 |
| 75° | 3548.9 | 3509.5 | 3473.9 | 3375.4 | 2233.7 | 1160.5 | 1107.9 | 9.4 | 0.0 | 0.0 |
| 77.5° | 2582.7 | 2524.5 | 2458.8 | 2351.9 | 1507.6 | 758.0 | 730.8 | 8.4 | 0.0 | 0.0 |
| 80° | 1164.2 | 1116.4 | 1100.4 | 933.4 | 534.7 | 246.7 | 217.6 | 7.5 | 0.0 | 0.0 |
| 82.5° | 226.1 | 203.6 | 193.3 | 185.7 | 120.1 | 66.6 | 58.2 | 5.6 | 0.0 | 0.0 |
| 85° | 76.9 | 85.4 | 99.4 | 109.8 | 67.5 | 40.3 | 33.8 | 3.8 | 0.0 | 0.0 |
| 87.5° | 30.0 | 40.3 | 48.8 | 50.7 | 25.3 | 16.9 | 9.4 | 1.9 | 0.0 | 0.0 |
| 90° | 5.6 | 7.5 | 6.6 | 4.7 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 2.8 | 3.8 | 2.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 3.8 | 3.8 | 3.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 3.8 | 3.8 | 3.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 3.8 | 3.8 | 3.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 3.8 | 3.8 | 3.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 3.8 | 4.7 | 3.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 3.8 | 4.7 | 3.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 3.8 | 4.7 | 3.8 | 2.8 | 1.9 | 0.9 | 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° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 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)