

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: P522186

Luminaire Tested: **CTN-CA6-230-730-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA6-230-730-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26063 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

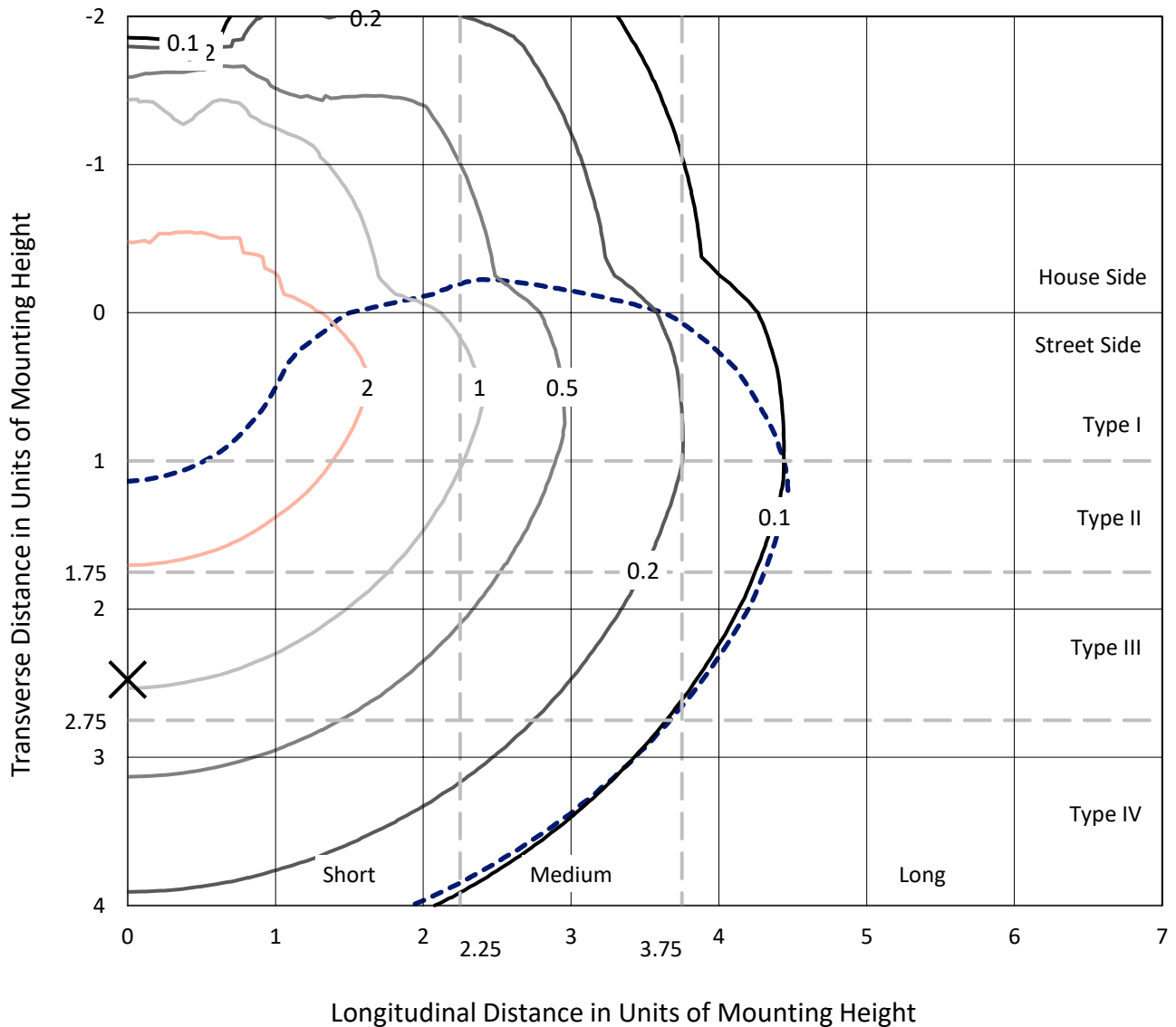
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

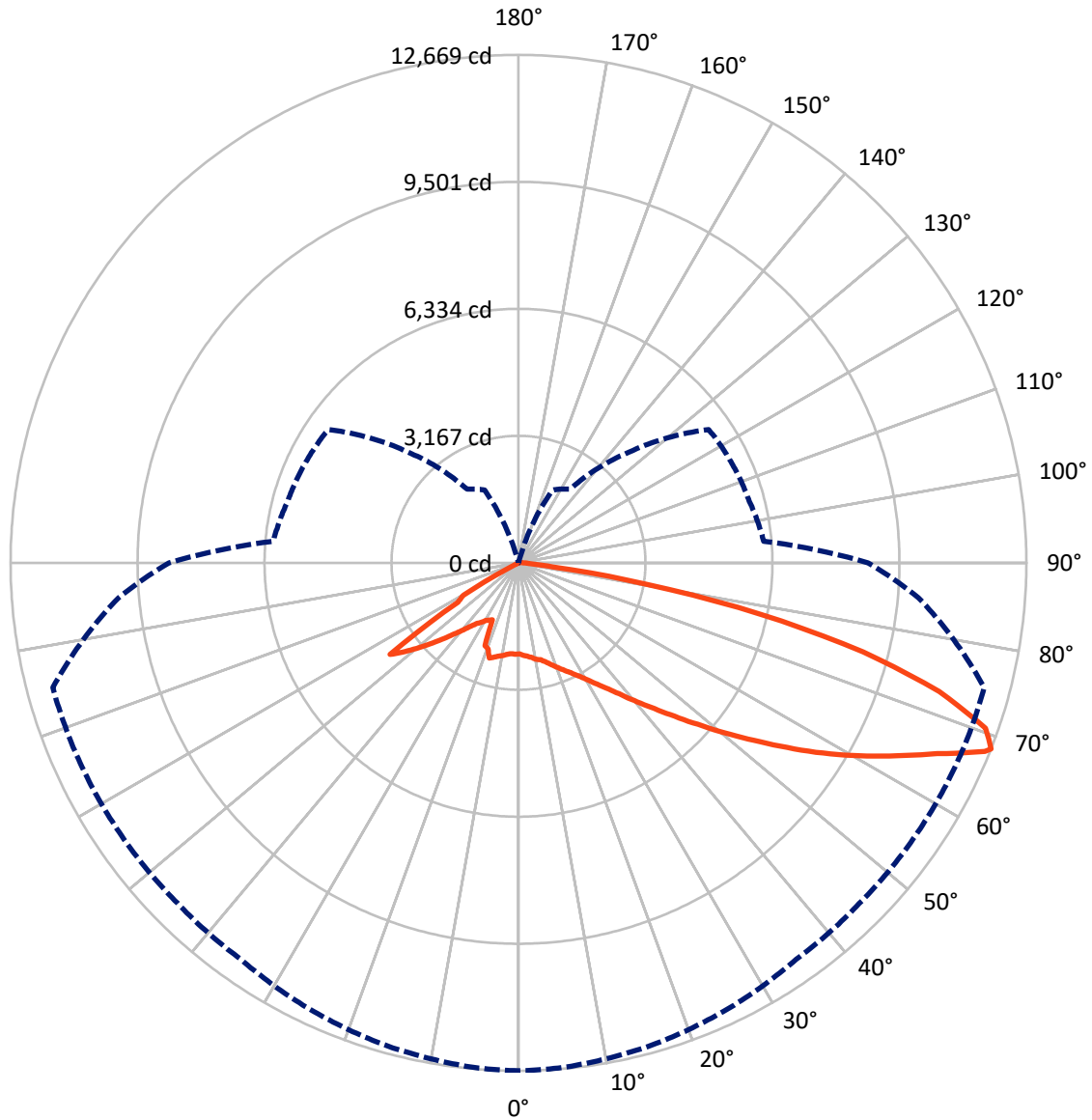
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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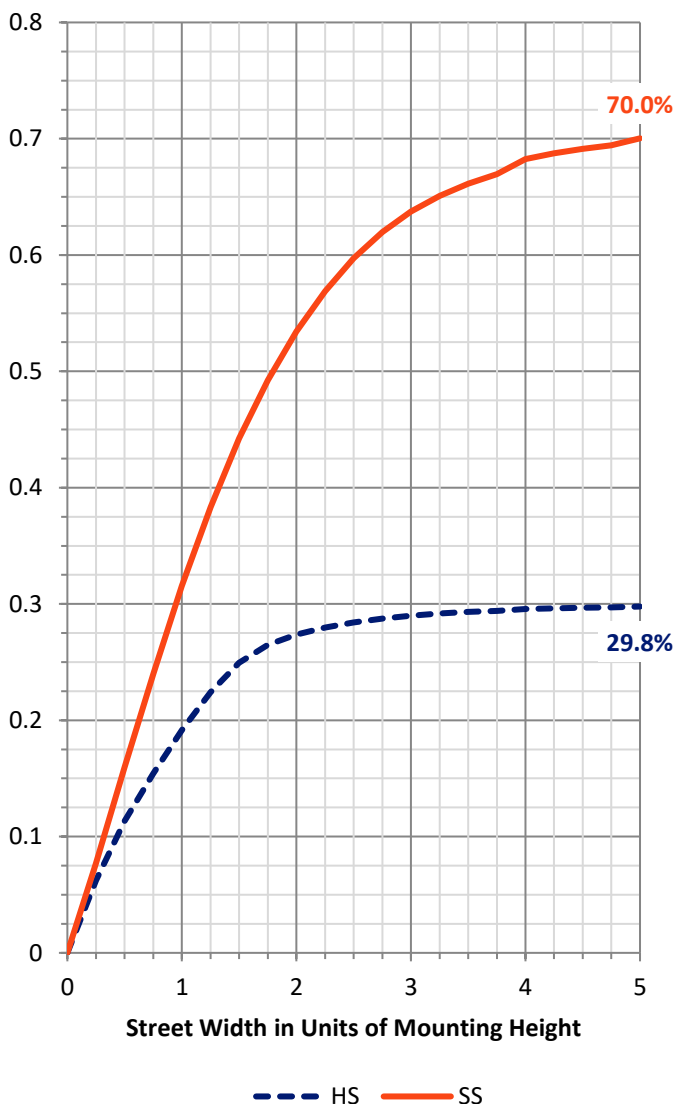
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7769.1 | 1.2 | 7770.3 |
| | % Fixture | 29.8 | 0.0 | 29.8 |
| Street Side | Lumens | 18282.0 | 10.7 | 18292.7 |
| | % Fixture | 70.1 | 0.0 | 70.2 |
| Total | Lumens | 26051.1 | 11.9 | 26063.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 220.5 | 0.8 |
| 10°-20° | 701.9 | 2.7 |
| 20°-30° | 1202.2 | 4.6 |
| 30°-40° | 1950.3 | 7.5 |
| 40°-50° | 3289.1 | 12.6 |
| 50°-60° | 5361.4 | 20.6 |
| 60°-70° | 7190.5 | 27.6 |
| 70°-80° | 5585.1 | 21.4 |
| 80°-90° | 550.0 | 2.1 |
| 90°-100° | 10.5 | 0.0 |
| 100°-110° | 0.6 | 0.0 |
| 110°-120° | 0.2 | 0.0 |
| 120°-130° | 0.1 | 0.0 |
| 130°-140° | 0.2 | 0.0 |
| 140°-150° | 0.2 | 0.0 |
| 150°-160° | 0.1 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 26051.1 | 100.0 |
| 0°-180° | 26063.0 | 100.0 |

Coefficient of Utilization

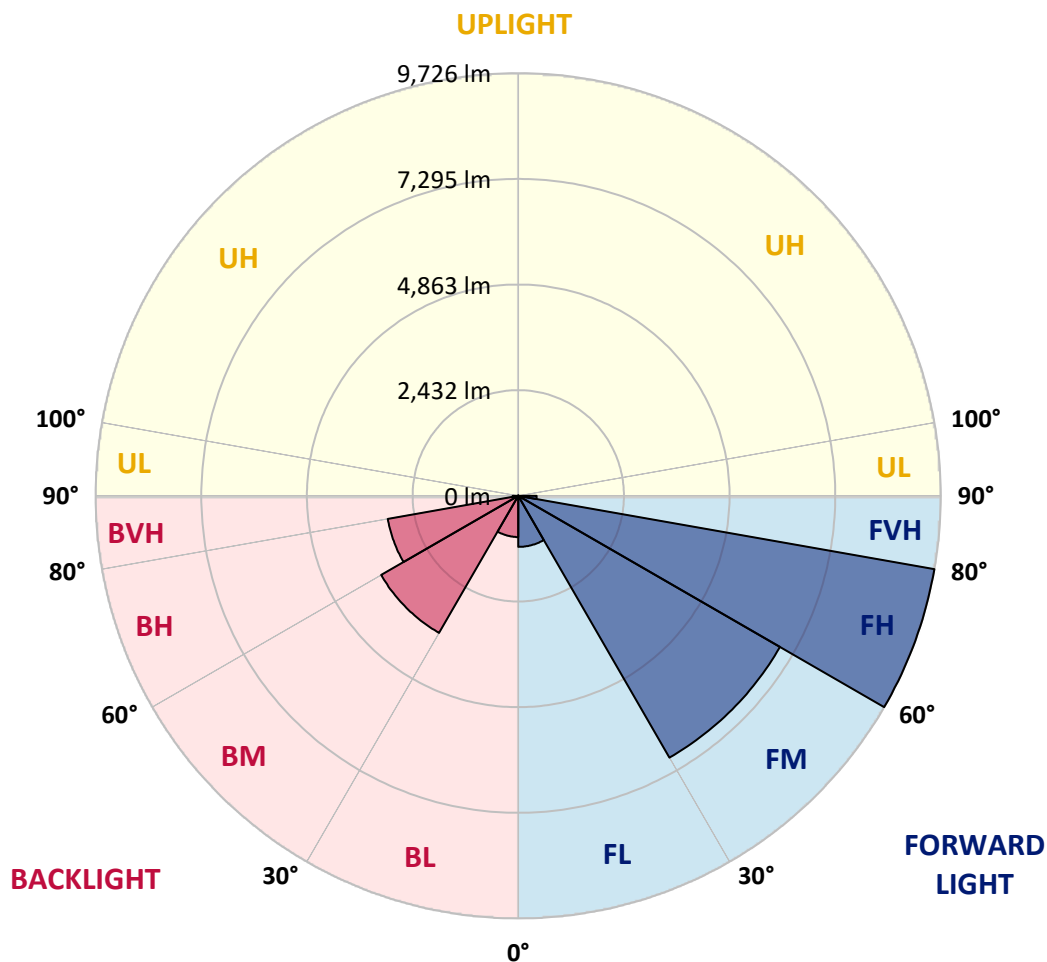


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1175.6 | 4.5 | | | |
| FM (30°-60°) | 6957.1 | 26.7 | | | |
| FH (60°-80°) | 9726.4 | 37.3 | | | G4/12000 |
| FVH (80°-90°) | 422.9 | 1.6 | | | G3/500 |
| BL (0°-30°) | 949.1 | 3.6 | B2/1000 | | |
| BM (30°-60°) | 3643.7 | 14.0 | B3/5000 | | |
| BH (60°-80°) | 3049.2 | 11.7 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 127.1 | 0.5 | | | G2/225 |
| UL (90°-100°) | 10.5 | 0.0 | | U2/50 | |
| UH (100°-180°) | 1.5 | 0.0 | | U1/10 | |

BUG Rating: B4-U2-G4
 Type IV Short





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CATALOG NUMBER: CTN-CA6-230-730-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 |
| 2.5° | 2309.9 | 2303.5 | 2302.4 | 2315.3 | 2274.4 | 2294.8 | 2276.5 | 2291.6 | 2281.9 | 2289.5 | 2290.5 |
| 5° | 2341.2 | 2329.3 | 2321.8 | 2336.9 | 2311.0 | 2320.7 | 2300.2 | 2306.7 | 2279.8 | 2294.8 | 2297.0 |
| 7.5° | 2386.5 | 2367.1 | 2364.9 | 2369.2 | 2346.6 | 2354.1 | 2320.7 | 2328.3 | 2308.9 | 2300.2 | 2307.8 |
| 10° | 2447.9 | 2429.6 | 2415.6 | 2425.3 | 2395.1 | 2399.4 | 2363.8 | 2364.9 | 2350.9 | 2334.7 | 2347.7 |
| 12.5° | 2482.4 | 2484.6 | 2478.1 | 2485.6 | 2460.8 | 2446.8 | 2422.0 | 2413.4 | 2399.4 | 2380.0 | 2373.5 |
| 15° | 2568.6 | 2564.3 | 2551.4 | 2563.2 | 2560.0 | 2547.1 | 2516.9 | 2497.5 | 2467.3 | 2456.5 | 2445.8 |
| 17.5° | 2674.3 | 2660.3 | 2649.5 | 2664.6 | 2680.7 | 2653.8 | 2624.7 | 2597.7 | 2557.9 | 2536.3 | 2523.4 |
| 20° | 2785.3 | 2775.6 | 2764.8 | 2788.5 | 2793.9 | 2773.4 | 2751.9 | 2712.0 | 2665.6 | 2637.6 | 2610.7 |
| 22.5° | 2909.3 | 2889.8 | 2893.1 | 2924.3 | 2914.6 | 2904.9 | 2876.9 | 2844.6 | 2788.5 | 2753.0 | 2675.3 |
| 25° | 3037.5 | 3026.7 | 3041.8 | 3055.8 | 3048.3 | 3027.8 | 3013.8 | 2990.1 | 2927.6 | 2884.5 | 2771.3 |
| 27.5° | 3197.0 | 3179.8 | 3199.2 | 3204.6 | 3198.1 | 3192.7 | 3173.3 | 3155.0 | 3087.1 | 3038.6 | 2897.4 |
| 30° | 3384.6 | 3364.1 | 3395.4 | 3387.8 | 3381.4 | 3385.7 | 3373.8 | 3333.9 | 3273.6 | 3207.8 | 3066.6 |
| 32.5° | 3607.7 | 3580.8 | 3616.4 | 3600.2 | 3585.1 | 3615.3 | 3587.2 | 3549.5 | 3478.4 | 3401.9 | 3263.9 |
| 35° | 3866.4 | 3867.5 | 3885.8 | 3858.9 | 3853.5 | 3885.8 | 3867.5 | 3821.2 | 3755.4 | 3675.6 | 3479.5 |
| 37.5° | 4180.1 | 4171.5 | 4217.8 | 4204.9 | 4185.5 | 4228.6 | 4234.0 | 4175.8 | 4057.2 | 3978.5 | 3746.8 |
| 40° | 4561.7 | 4559.5 | 4574.6 | 4576.8 | 4571.4 | 4591.9 | 4601.6 | 4523.9 | 4447.4 | 4328.8 | 3535.5 |
| 42.5° | 4969.1 | 4977.7 | 5004.7 | 4985.3 | 5011.2 | 5038.1 | 5041.3 | 4976.7 | 4866.7 | 4153.1 | 3755.4 |
| 45° | 5458.5 | 5485.4 | 5503.8 | 5499.4 | 5511.3 | 5550.1 | 5553.3 | 5518.8 | 5411.1 | 4499.2 | 4154.2 |
| 47.5° | 6020.1 | 6045.9 | 6051.3 | 6085.8 | 6075.0 | 6130.0 | 6122.5 | 6123.5 | 6008.2 | 4981.0 | 4588.6 |
| 50° | 6665.7 | 6677.6 | 6721.8 | 6741.2 | 6714.2 | 6788.6 | 6769.2 | 6792.9 | 6650.6 | 5532.9 | 5055.3 |
| 52.5° | 7351.3 | 7371.8 | 7390.1 | 7463.4 | 7428.9 | 7493.6 | 7467.7 | 7522.7 | 7357.7 | 6094.4 | 5573.8 |
| 55° | 8130.6 | 8133.8 | 8165.1 | 8239.5 | 8194.2 | 8271.8 | 8234.1 | 8254.6 | 8123.0 | 6715.3 | 6113.8 |
| 57.5° | 8956.3 | 8945.5 | 8957.3 | 9016.6 | 8975.7 | 9033.9 | 9018.8 | 9038.2 | 8915.3 | 7368.5 | 6508.4 |
| 60° | 9773.3 | 9757.1 | 9774.4 | 9814.3 | 9758.2 | 9858.5 | 9804.6 | 9822.9 | 9690.3 | 8035.7 | 7071.0 |
| 62.5° | 10594.7 | 10582.8 | 10563.4 | 10603.3 | 10521.4 | 10573.1 | 10595.8 | 10565.6 | 10449.2 | 8639.4 | 7560.4 |
| 65° | 11476.4 | 11464.5 | 11393.4 | 11418.2 | 11271.6 | 11246.8 | 11255.4 | 11265.1 | 11187.5 | 9237.6 | 8097.2 |
| 67.5° | 12547.8 | 12530.6 | 12396.9 | 12228.8 | 12017.5 | 11971.2 | 11975.5 | 12001.3 | 12012.1 | 10007.2 | 8725.6 |
| 68° | 12668.6 | 12637.3 | 12488.5 | 12293.4 | 12072.5 | 12018.6 | 12013.2 | 12018.6 | 12024.0 | 10013.7 | 8719.1 |
| 70° | 12360.3 | 12348.4 | 12235.2 | 11999.2 | 11772.8 | 11643.5 | 11531.4 | 11527.1 | 11475.3 | 9501.7 | 8237.3 |
| 72.5° | 10968.7 | 10953.6 | 10818.9 | 10651.8 | 10511.7 | 10309.0 | 10163.5 | 10172.1 | 10087.0 | 8397.9 | 7210.1 |
| 75° | 8876.5 | 8875.4 | 8713.7 | 8573.6 | 8575.8 | 8560.7 | 8512.2 | 8597.3 | 8508.9 | 7122.8 | 6149.4 |
| 77.5° | 6186.1 | 6207.6 | 6196.8 | 6114.9 | 6230.3 | 6389.8 | 6563.3 | 6727.2 | 6676.5 | 5626.6 | 4903.4 |
| 80° | 3231.5 | 3291.9 | 3505.3 | 3515.0 | 3595.9 | 3751.1 | 3869.7 | 3979.6 | 3987.1 | 3192.7 | 2832.7 |
| 82.5° | 859.1 | 877.4 | 949.6 | 929.1 | 922.7 | 953.9 | 979.8 | 983.0 | 985.2 | 832.1 | 777.2 |
| 85° | 267.3 | 274.9 | 266.2 | 254.4 | 236.1 | 215.6 | 210.2 | 171.4 | 135.8 | 112.1 | 98.1 |
| 87.5° | 189.7 | 202.6 | 183.2 | 172.5 | 153.1 | 145.5 | 130.4 | 102.4 | 79.8 | 56.1 | 37.7 |
| 90° | 98.1 | 100.2 | 89.5 | 76.5 | 71.1 | 66.8 | 57.1 | 41.0 | 20.5 | 10.8 | 9.7 |
| 92.5° | 49.6 | 50.7 | 44.2 | 37.7 | 32.3 | 28.0 | 21.6 | 11.9 | 6.5 | 3.2 | 1.1 |
| 95° | 19.4 | 20.5 | 18.3 | 16.2 | 12.9 | 9.7 | 8.6 | 6.5 | 4.3 | 2.2 | 1.1 |
| 97.5° | 6.5 | 6.5 | 6.5 | 5.4 | 5.4 | 5.4 | 5.4 | 4.3 | 3.2 | 2.2 | 1.1 |
| 100° | 0.0 | 0.0 | 0.0 | 1.1 | 2.2 | 3.2 | 3.2 | 3.2 | 2.2 | 1.1 | 1.1 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 |
| 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 | 1.1 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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-CA6-230-730-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 | 2272.2 |
| 2.5° | 2285.1 | 2278.7 | 2281.9 | 2255.0 | 2261.4 | 2244.2 | 2280.8 | 2271.1 | 2266.8 | 2281.9 |
| 5° | 2290.5 | 2266.8 | 2286.2 | 2267.9 | 2271.1 | 2246.3 | 2276.5 | 2264.7 | 2263.6 | 2272.2 |
| 7.5° | 2292.7 | 2280.8 | 2299.2 | 2269.0 | 2278.7 | 2269.0 | 2291.6 | 2279.8 | 2290.5 | 2298.1 |
| 10° | 2322.9 | 2316.4 | 2314.2 | 2303.5 | 2311.0 | 2289.5 | 2317.5 | 2317.5 | 2322.9 | 2343.4 |
| 12.5° | 2367.1 | 2358.4 | 2353.1 | 2333.7 | 2341.2 | 2334.7 | 2357.4 | 2361.7 | 2371.4 | 2380.0 |
| 15° | 2427.4 | 2412.3 | 2406.9 | 2389.7 | 2395.1 | 2394.0 | 2410.2 | 2411.3 | 2432.8 | 2431.7 |
| 17.5° | 2505.0 | 2483.5 | 2489.9 | 2477.0 | 2478.1 | 2469.5 | 2460.8 | 2460.8 | 2480.2 | 2484.6 |
| 20° | 2597.7 | 2474.9 | 2313.2 | 2222.6 | 2206.5 | 2218.3 | 2264.7 | 2341.2 | 2245.3 | 2272.2 |
| 22.5° | 2430.7 | 2319.6 | 2312.1 | 2291.6 | 2278.7 | 1989.8 | 1915.4 | 1891.7 | 2015.7 | 2229.1 |
| 25° | 2452.2 | 2404.8 | 2390.8 | 2364.9 | 1983.3 | 1980.1 | 1958.5 | 1923.0 | 1571.6 | 1564.0 |
| 27.5° | 2566.5 | 2520.1 | 2497.5 | 2071.7 | 2063.1 | 2062.0 | 2029.7 | 1672.9 | 1592.1 | 1602.8 |
| 30° | 2700.1 | 2646.2 | 2241.0 | 2176.3 | 2168.7 | 2151.5 | 1966.1 | 1652.4 | 1651.3 | 1652.4 |
| 32.5° | 2854.3 | 2675.3 | 2305.6 | 2302.4 | 2306.7 | 2253.9 | 1741.9 | 1735.4 | 1734.3 | 1745.1 |
| 35° | 3065.5 | 2482.4 | 2467.3 | 2483.5 | 2460.8 | 1948.8 | 1846.4 | 1843.2 | 1844.3 | 1838.9 |
| 37.5° | 2925.4 | 2676.4 | 2673.2 | 2673.2 | 2620.4 | 1994.1 | 1973.6 | 1988.7 | 1986.6 | 1979.0 |
| 40° | 2984.7 | 2911.4 | 2892.0 | 2885.5 | 2215.1 | 2151.5 | 2139.6 | 2159.0 | 2162.3 | 2167.7 |
| 42.5° | 3272.5 | 3205.7 | 3196.0 | 3119.4 | 2410.2 | 2389.7 | 2353.1 | 2373.5 | 2371.4 | 2377.8 |
| 45° | 3626.1 | 3580.8 | 3538.7 | 2704.4 | 2673.2 | 2647.3 | 2609.6 | 2633.3 | 2639.8 | 2635.5 |
| 47.5° | 4037.8 | 3988.2 | 3684.3 | 2973.9 | 2972.8 | 2952.4 | 2910.3 | 2929.7 | 2926.5 | 2926.5 |
| 50° | 4451.7 | 4397.8 | 3346.9 | 3316.7 | 3305.9 | 3273.6 | 3239.1 | 3242.3 | 3243.4 | 3254.2 |
| 52.5° | 4914.1 | 3927.9 | 3704.7 | 3644.4 | 3653.0 | 3631.4 | 3598.0 | 2723.9 | 3581.9 | 3591.6 |
| 55° | 4592.9 | 4111.1 | 4098.2 | 4018.4 | 4038.9 | 4010.9 | 3989.3 | 2687.2 | 3562.5 | 3936.5 |
| 57.5° | 4541.2 | 4506.7 | 4495.9 | 4414.0 | 4439.9 | 4173.6 | 4373.0 | 2940.5 | 2464.1 | 1800.1 |
| 60° | 4936.8 | 4900.1 | 4893.7 | 4821.4 | 4819.3 | 3316.7 | 3975.3 | 2016.7 | 1575.9 | 1586.7 |
| 62.5° | 5320.5 | 5261.2 | 5277.4 | 5192.2 | 3660.5 | 2021.1 | 1781.8 | 45.3 | 72.2 | 76.5 |
| 65° | 5748.4 | 5649.3 | 5665.4 | 5586.8 | 3775.9 | 2131.0 | 1926.2 | 23.7 | 20.5 | 19.4 |
| 67.5° | 6160.2 | 5986.7 | 5903.7 | 5820.7 | 3921.4 | 2244.2 | 2007.0 | 6.5 | 0.0 | 0.0 |
| 68° | 6139.7 | 5956.5 | 5871.3 | 5792.6 | 3906.3 | 2241.0 | 2002.7 | 6.5 | 0.0 | 0.0 |
| 70° | 5793.7 | 5628.8 | 5547.9 | 5487.6 | 3729.5 | 2164.4 | 1921.9 | 6.5 | 0.0 | 0.0 |
| 72.5° | 5065.0 | 4973.4 | 4921.7 | 4868.9 | 3313.5 | 1935.9 | 1723.6 | 6.5 | 0.0 | 0.0 |
| 75° | 4304.1 | 4278.2 | 4245.8 | 4129.4 | 2761.6 | 1584.5 | 1416.4 | 6.5 | 0.0 | 0.0 |
| 77.5° | 3410.5 | 3409.4 | 3330.7 | 3193.8 | 2079.3 | 1163.1 | 1044.5 | 5.4 | 0.0 | 0.0 |
| 80° | 1844.3 | 2010.3 | 1949.9 | 1879.9 | 1179.2 | 632.7 | 602.5 | 4.3 | 0.0 | 0.0 |
| 82.5° | 518.5 | 490.4 | 471.0 | 440.9 | 247.9 | 138.0 | 134.7 | 4.3 | 0.0 | 0.0 |
| 85° | 72.2 | 79.8 | 88.4 | 100.2 | 57.1 | 36.6 | 32.3 | 2.2 | 0.0 | 0.0 |
| 87.5° | 41.0 | 46.3 | 57.1 | 59.3 | 21.6 | 17.2 | 5.4 | 0.0 | 0.0 | 0.0 |
| 90° | 8.6 | 9.7 | 10.8 | 10.8 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 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° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 1.1 | 1.1 | 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)