

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: P579496

Luminaire Tested: **CTN-CA6-230-740-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579496
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-CA6-230-740-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25330 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

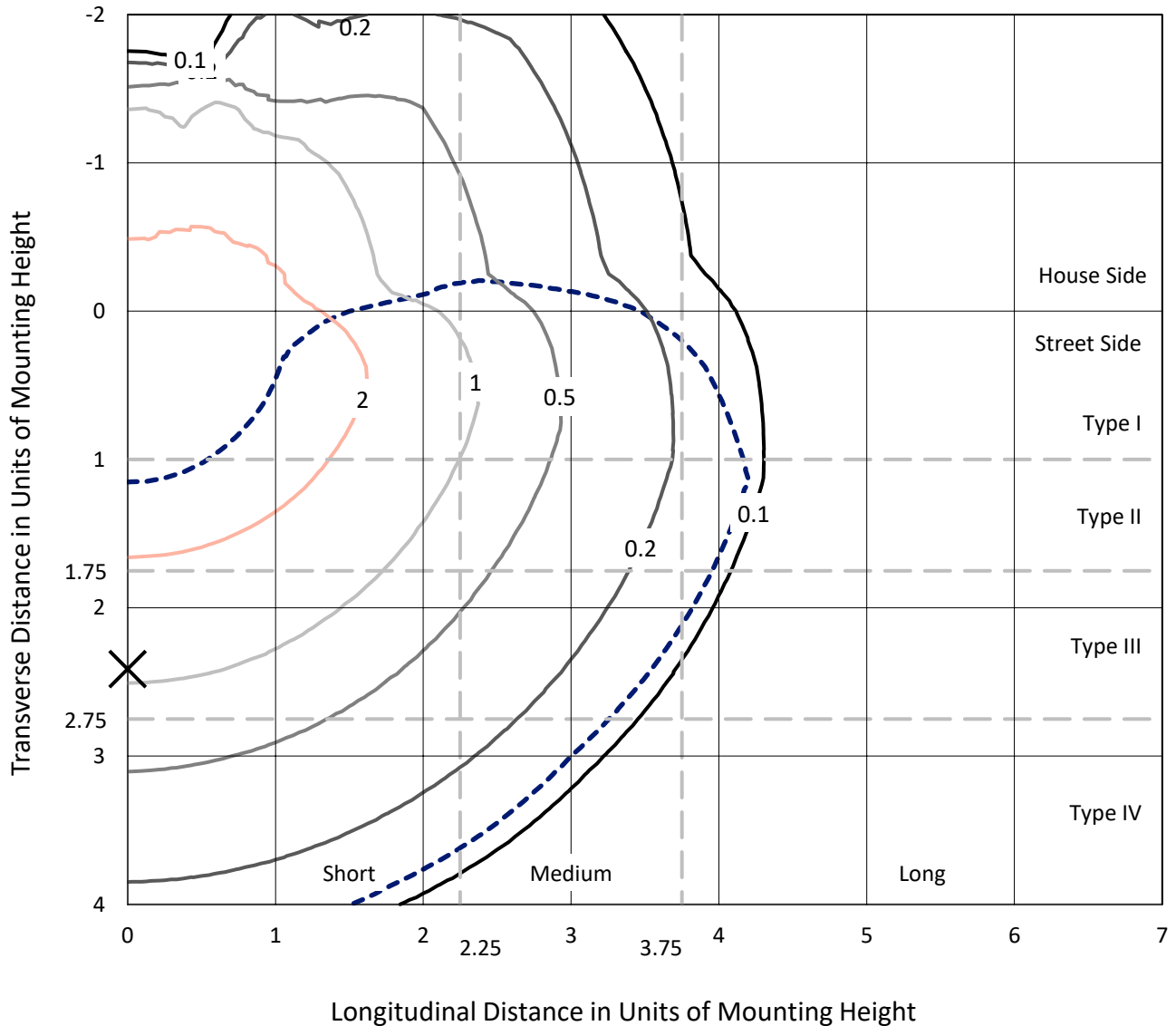
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

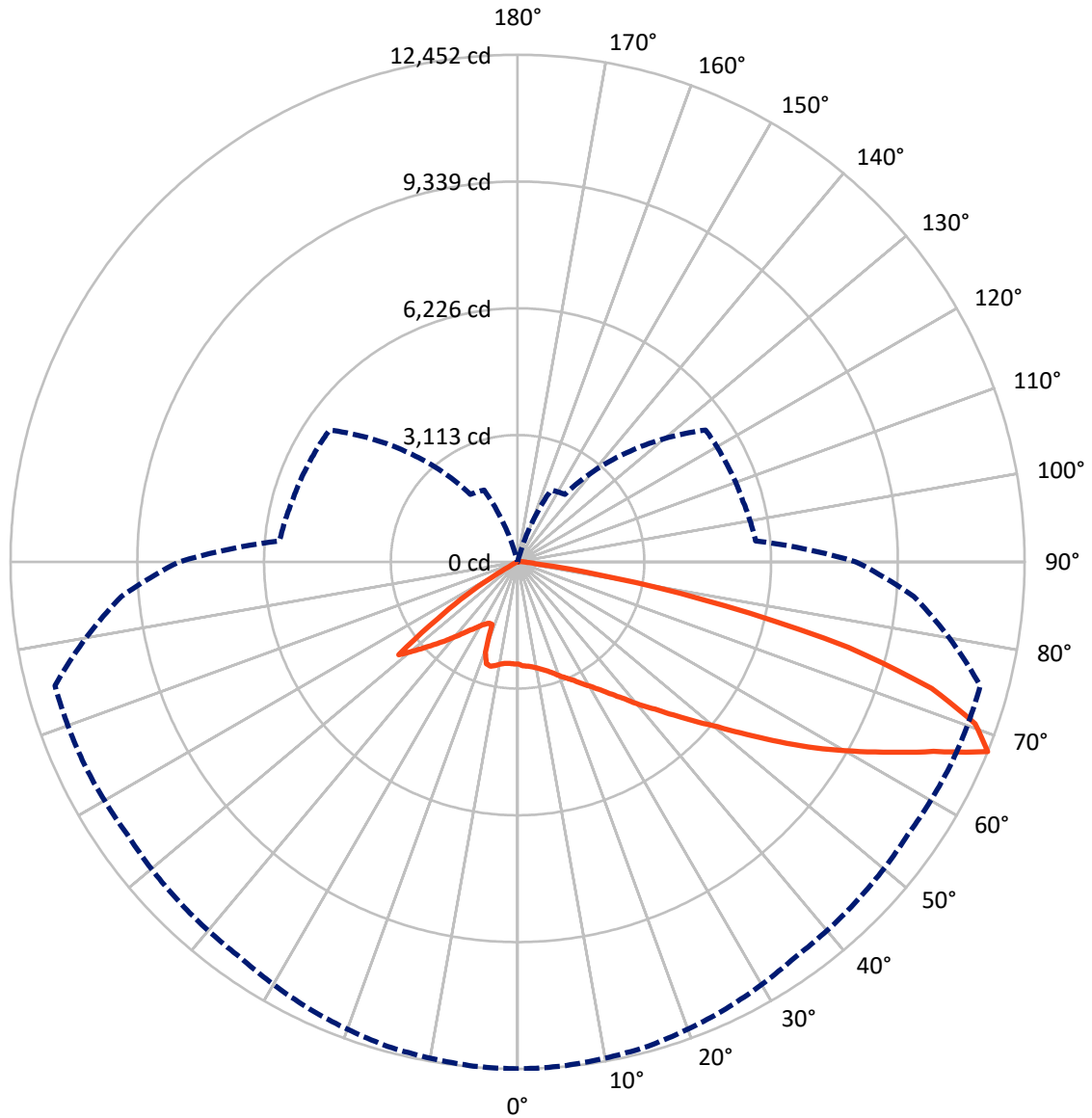
✕ Max cd
 - - - 1/2 Max cd



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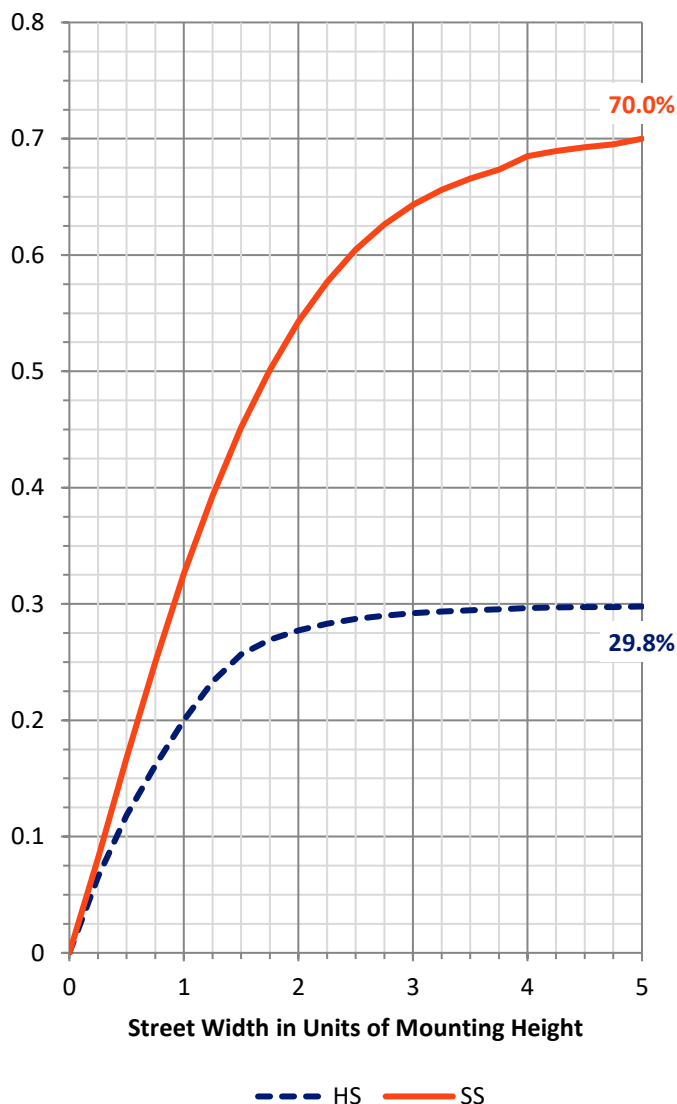
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7561.1 | 2.6 | 7563.7 |
| | % Fixture | 29.9 | 0.0 | 29.9 |
| Street Side | Lumens | 17737.8 | 28.5 | 17766.3 |
| | % Fixture | 70.0 | 0.1 | 70.1 |
| Total | Lumens | 25299.0 | 31.1 | 25330.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 242.0 | 1.0 |
| 10°-20° | 749.1 | 3.0 |
| 20°-30° | 1257.2 | 5.0 |
| 30°-40° | 2038.6 | 8.0 |
| 40°-50° | 3331.2 | 13.2 |
| 50°-60° | 5220.6 | 20.6 |
| 60°-70° | 6992.0 | 27.6 |
| 70°-80° | 5096.2 | 20.1 |
| 80°-90° | 372.2 | 1.5 |
| 90°-100° | 23.8 | 0.1 |
| 100°-110° | 6.8 | 0.0 |
| 110°-120° | 0.5 | 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° | 25299.0 | 99.9 |
| 0°-180° | 25330.0 | 100.0 |

Coefficient of Utilization

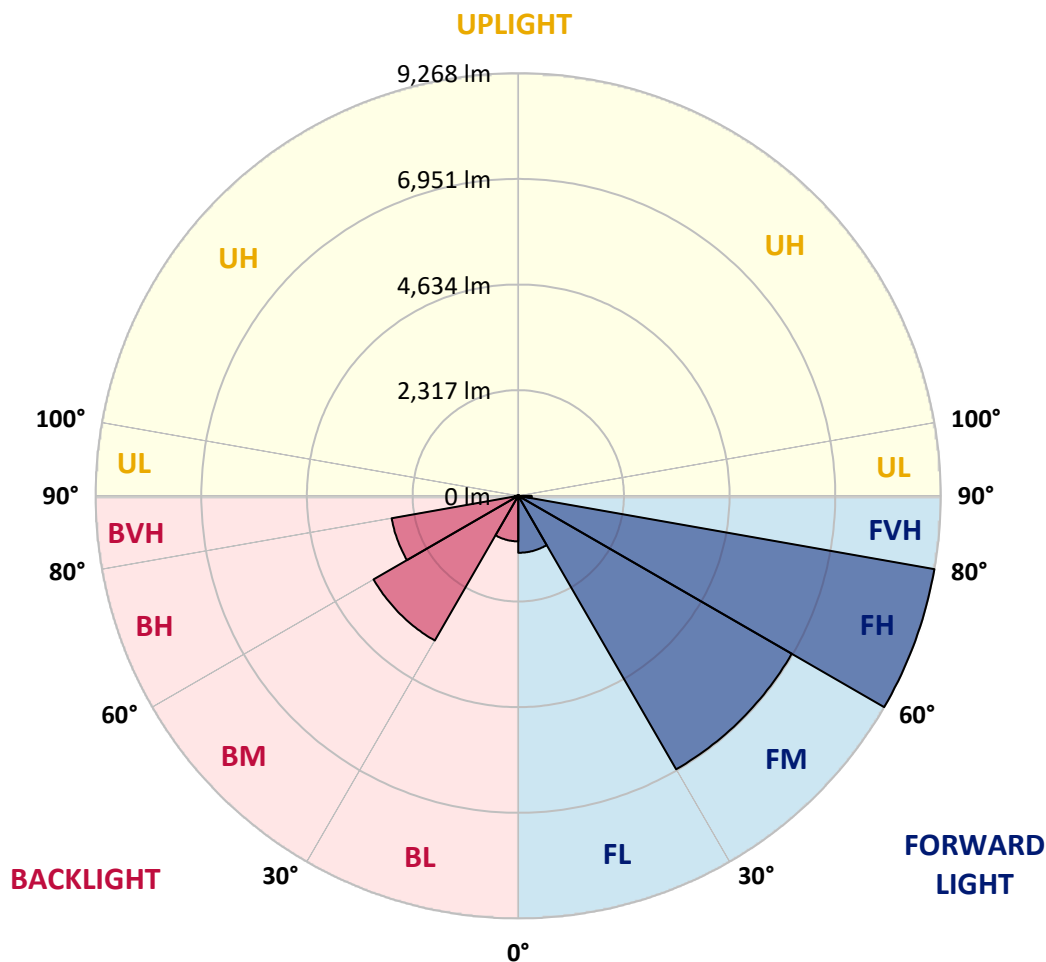


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1249.4 | 4.9 | | | |
| FM (30°-60°) | 6925.7 | 27.3 | | | |
| FH (60°-80°) | 9268.4 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 294.3 | 1.2 | | | G3/500 |
| BL (0°-30°) | 998.8 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 3664.7 | 14.5 | B3/5000 | | |
| BH (60°-80°) | 2819.8 | 11.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 77.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 23.8 | 0.1 | | U2/50 | |
| UH (100°-180°) | 7.3 | 0.0 | | U1/10 | |

BUG Rating: B4-U2-G4
 Type IV Short





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CATALOG NUMBER: CTN-CA6-230-740-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 |
| 2.5° | 2557.8 | 2542.9 | 2544.0 | 2557.8 | 2516.3 | 2530.1 | 2512.0 | 2525.9 | 2516.3 | 2519.5 | 2525.9 |
| 5° | 2573.8 | 2557.8 | 2558.9 | 2575.9 | 2538.7 | 2550.4 | 2525.9 | 2533.3 | 2524.8 | 2529.1 | 2529.1 |
| 7.5° | 2605.8 | 2587.6 | 2586.6 | 2597.2 | 2558.9 | 2563.2 | 2540.8 | 2541.9 | 2529.1 | 2537.6 | 2533.3 |
| 10° | 2653.7 | 2638.8 | 2628.1 | 2634.5 | 2600.4 | 2598.3 | 2569.5 | 2570.6 | 2554.6 | 2564.2 | 2556.8 |
| 12.5° | 2712.2 | 2692.0 | 2689.9 | 2692.0 | 2654.7 | 2646.2 | 2616.4 | 2618.5 | 2589.8 | 2604.7 | 2596.2 |
| 15° | 2786.8 | 2754.8 | 2754.8 | 2766.5 | 2718.6 | 2712.2 | 2676.0 | 2678.2 | 2648.3 | 2660.1 | 2651.5 |
| 17.5° | 2878.4 | 2847.5 | 2842.2 | 2850.7 | 2809.1 | 2800.6 | 2763.4 | 2761.2 | 2728.2 | 2731.4 | 2724.0 |
| 20° | 2996.6 | 2965.7 | 2952.9 | 2974.2 | 2922.0 | 2915.6 | 2870.9 | 2866.6 | 2831.5 | 2821.9 | 2817.7 |
| 22.5° | 3106.2 | 3081.8 | 3075.4 | 3098.8 | 3044.5 | 3039.2 | 2996.6 | 2991.2 | 2958.2 | 2944.4 | 2860.3 |
| 25° | 3229.8 | 3224.4 | 3222.3 | 3229.8 | 3178.7 | 3168.0 | 3135.0 | 3127.5 | 3099.9 | 3082.8 | 2980.6 |
| 27.5° | 3389.5 | 3387.4 | 3381.0 | 3382.0 | 3335.2 | 3325.6 | 3294.7 | 3289.4 | 3260.7 | 3241.5 | 3110.5 |
| 30° | 3556.7 | 3556.7 | 3542.8 | 3550.3 | 3526.9 | 3512.0 | 3487.5 | 3468.3 | 3450.2 | 3430.0 | 3264.9 |
| 32.5° | 3749.4 | 3748.4 | 3735.6 | 3757.9 | 3740.9 | 3740.9 | 3726.0 | 3705.8 | 3673.8 | 3664.2 | 3464.0 |
| 35° | 3997.5 | 3981.6 | 3976.2 | 4012.5 | 4007.1 | 4016.7 | 4011.4 | 3990.1 | 3963.5 | 3941.1 | 3698.3 |
| 37.5° | 4272.3 | 4268.0 | 4284.0 | 4306.4 | 4318.1 | 4343.6 | 4327.7 | 4326.6 | 4322.3 | 4265.9 | 3635.5 |
| 40° | 4610.9 | 4592.8 | 4615.2 | 4626.9 | 4618.4 | 4659.9 | 4646.1 | 4657.8 | 4689.7 | 4236.1 | 3631.2 |
| 42.5° | 4948.5 | 4932.5 | 4948.5 | 5006.0 | 4993.2 | 5043.3 | 5036.9 | 5082.7 | 5100.8 | 4298.9 | 3926.2 |
| 45° | 5363.8 | 5345.7 | 5358.5 | 5426.6 | 5433.0 | 5493.7 | 5526.7 | 5570.4 | 5578.9 | 4705.7 | 4281.9 |
| 47.5° | 5840.8 | 5811.0 | 5835.5 | 5867.5 | 5964.4 | 6021.9 | 6053.8 | 6107.1 | 6161.4 | 5195.5 | 4686.5 |
| 50° | 6366.9 | 6364.8 | 6391.4 | 6446.8 | 6557.5 | 6615.0 | 6670.4 | 6725.8 | 6815.2 | 5741.8 | 5140.2 |
| 52.5° | 7035.6 | 7021.8 | 7067.6 | 7119.8 | 7217.7 | 7306.1 | 7372.1 | 7429.6 | 7525.5 | 6294.5 | 5631.1 |
| 55° | 7800.2 | 7752.3 | 7839.6 | 7928.0 | 7969.5 | 8073.9 | 8119.7 | 8167.6 | 8259.2 | 6875.9 | 5917.5 |
| 57.5° | 8625.5 | 8613.8 | 8674.5 | 8706.4 | 8795.9 | 8860.8 | 8885.3 | 8937.5 | 8936.4 | 7480.8 | 6405.2 |
| 60° | 9438.0 | 9425.2 | 9496.6 | 9515.7 | 9587.1 | 9645.7 | 9637.1 | 9684.0 | 9701.0 | 8048.3 | 6883.4 |
| 62.5° | 10293.1 | 10271.8 | 10337.8 | 10342.1 | 10299.5 | 10394.3 | 10384.7 | 10424.1 | 10409.2 | 8603.1 | 7354.0 |
| 65° | 11228.1 | 11244.0 | 11265.3 | 11178.0 | 11075.8 | 11157.8 | 11155.6 | 11230.2 | 11283.4 | 9378.4 | 7984.4 |
| 67.5° | 12451.6 | 12431.4 | 12321.7 | 12110.8 | 11862.7 | 11779.7 | 11691.3 | 11745.6 | 11760.5 | 9763.9 | 8307.1 |
| 70° | 11923.4 | 11878.7 | 11829.7 | 11614.6 | 11315.4 | 11104.5 | 10967.2 | 11024.7 | 11085.4 | 9227.2 | 7802.3 |
| 72.5° | 10636.0 | 10525.2 | 10297.4 | 10107.8 | 9935.3 | 9729.8 | 9562.6 | 9662.7 | 9795.8 | 8184.6 | 6908.9 |
| 75° | 8391.2 | 8287.9 | 8121.8 | 7993.0 | 7900.3 | 7898.2 | 7890.7 | 7968.5 | 7949.3 | 6645.9 | 5617.2 |
| 77.5° | 5196.6 | 5412.8 | 5566.1 | 5456.4 | 5494.8 | 5416.0 | 5589.5 | 5691.8 | 5784.4 | 4764.3 | 4001.8 |
| 80° | 2399.2 | 2454.5 | 2726.1 | 2655.8 | 2599.4 | 2583.4 | 2594.0 | 2771.9 | 2824.1 | 2138.3 | 1791.1 |
| 82.5° | 547.3 | 525.0 | 544.2 | 504.8 | 502.6 | 479.2 | 482.4 | 482.4 | 465.4 | 394.0 | 330.1 |
| 85° | 276.9 | 283.3 | 285.4 | 273.7 | 241.7 | 217.2 | 201.3 | 170.4 | 147.0 | 125.7 | 106.5 |
| 87.5° | 185.3 | 190.6 | 193.8 | 177.8 | 159.7 | 139.5 | 126.7 | 103.3 | 82.0 | 51.1 | 39.4 |
| 90° | 126.7 | 125.7 | 122.5 | 113.9 | 102.2 | 87.3 | 70.3 | 49.0 | 28.8 | 10.6 | 7.5 |
| 92.5° | 90.5 | 88.4 | 87.3 | 79.9 | 71.3 | 59.6 | 45.8 | 30.9 | 16.0 | 7.5 | 4.3 |
| 95° | 59.6 | 58.6 | 58.6 | 54.3 | 47.9 | 39.4 | 30.9 | 20.2 | 11.7 | 6.4 | 4.3 |
| 97.5° | 41.5 | 40.5 | 40.5 | 38.3 | 34.1 | 28.8 | 21.3 | 13.8 | 9.6 | 6.4 | 4.3 |
| 100° | 28.8 | 28.8 | 28.8 | 26.6 | 24.5 | 20.2 | 16.0 | 10.6 | 8.5 | 6.4 | 4.3 |
| 102.5° | 19.2 | 19.2 | 20.2 | 19.2 | 17.0 | 13.8 | 10.6 | 8.5 | 7.5 | 5.3 | 4.3 |
| 105° | 12.8 | 12.8 | 12.8 | 12.8 | 11.7 | 9.6 | 8.5 | 7.5 | 6.4 | 5.3 | 4.3 |
| 107.5° | 8.5 | 8.5 | 8.5 | 8.5 | 7.5 | 6.4 | 6.4 | 6.4 | 5.3 | 5.3 | 4.3 |
| 110° | 5.3 | 5.3 | 5.3 | 6.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 4.3 | 4.3 |



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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-CA6-230-740-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 |
| 2.5° | 2520.6 | 2505.7 | 2513.1 | 2498.2 | 2491.8 | 2478.0 | 2504.6 | 2506.7 | 2504.6 | 2508.8 |
| 5° | 2523.8 | 2506.7 | 2515.2 | 2498.2 | 2495.0 | 2479.0 | 2505.7 | 2505.7 | 2499.3 | 2502.5 |
| 7.5° | 2531.2 | 2513.1 | 2519.5 | 2499.3 | 2499.3 | 2480.1 | 2512.0 | 2509.9 | 2504.6 | 2512.0 |
| 10° | 2556.8 | 2535.5 | 2535.5 | 2516.3 | 2518.4 | 2498.2 | 2537.6 | 2537.6 | 2533.3 | 2546.1 |
| 12.5° | 2596.2 | 2569.5 | 2570.6 | 2544.0 | 2548.2 | 2532.3 | 2580.2 | 2582.3 | 2582.3 | 2603.6 |
| 15° | 2647.3 | 2606.8 | 2611.1 | 2582.3 | 2590.8 | 2571.7 | 2614.3 | 2612.1 | 2617.5 | 2648.3 |
| 17.5° | 2710.1 | 2665.4 | 2628.1 | 2534.4 | 2479.0 | 2481.2 | 2607.9 | 2666.5 | 2598.3 | 2618.5 |
| 20° | 2736.7 | 2519.5 | 2401.3 | 2367.2 | 2359.8 | 2241.6 | 1999.8 | 2037.1 | 2265.0 | 2364.0 |
| 22.5° | 2557.8 | 2488.6 | 2476.9 | 2433.2 | 2110.6 | 2021.1 | 2036.0 | 2014.7 | 1791.1 | 1664.4 |
| 25° | 2645.2 | 2599.4 | 2572.7 | 2188.3 | 2115.9 | 2099.9 | 2089.3 | 1887.0 | 1644.2 | 1655.9 |
| 27.5° | 2768.7 | 2709.0 | 2389.6 | 2197.9 | 2211.7 | 2187.3 | 2125.5 | 1697.4 | 1690.0 | 1709.1 |
| 30° | 2914.6 | 2764.4 | 2328.9 | 2310.8 | 2326.8 | 2294.8 | 1786.9 | 1769.8 | 1769.8 | 1789.0 |
| 32.5° | 3093.5 | 2507.8 | 2471.6 | 2473.7 | 2463.1 | 2101.0 | 1880.6 | 1876.3 | 1889.1 | 1905.1 |
| 35° | 3043.4 | 2675.0 | 2678.2 | 2696.3 | 2671.8 | 2055.2 | 2027.5 | 2011.6 | 2022.2 | 2028.6 |
| 37.5° | 2945.4 | 2926.3 | 2926.3 | 2906.0 | 2281.0 | 2216.0 | 2186.2 | 2184.1 | 2183.0 | 2183.0 |
| 40° | 3192.5 | 3174.4 | 3152.0 | 3116.9 | 2386.4 | 2403.4 | 2358.7 | 2353.4 | 2356.6 | 2368.3 |
| 42.5° | 3473.6 | 3466.2 | 3464.0 | 2675.0 | 2605.8 | 2618.5 | 2570.6 | 2556.8 | 2556.8 | 2583.4 |
| 45° | 3804.8 | 3795.2 | 3559.9 | 2859.2 | 2847.5 | 2862.4 | 2809.1 | 2776.1 | 2794.2 | 2813.4 |
| 47.5° | 4185.0 | 4185.0 | 3152.0 | 3135.0 | 3135.0 | 3143.5 | 3090.3 | 3045.5 | 3063.6 | 3070.0 |
| 50° | 4601.3 | 3950.7 | 3468.3 | 3452.3 | 3467.2 | 3463.0 | 3407.6 | 2992.3 | 3376.7 | 3379.9 |
| 52.5° | 4717.4 | 3842.1 | 3815.5 | 3797.3 | 3815.5 | 3812.3 | 3754.8 | 2496.1 | 3652.5 | 3704.7 |
| 55° | 4181.8 | 4185.0 | 4179.6 | 4153.0 | 4172.2 | 4164.7 | 4108.3 | 2725.0 | 2693.1 | 2400.2 |
| 57.5° | 4521.5 | 4525.7 | 4523.6 | 4519.3 | 4536.4 | 3295.8 | 4255.2 | 2462.0 | 1503.6 | 1504.7 |
| 60° | 4891.0 | 4869.7 | 4863.3 | 4853.7 | 4113.6 | 2336.3 | 1773.0 | 171.4 | 587.8 | 579.3 |
| 62.5° | 5226.4 | 5219.0 | 5196.6 | 5191.3 | 3490.7 | 1840.1 | 1797.5 | 39.4 | 30.9 | 29.8 |
| 65° | 5692.8 | 5626.8 | 5608.7 | 5552.3 | 3720.7 | 1959.4 | 1918.9 | 11.7 | 1.1 | 0.0 |
| 67.5° | 5866.4 | 5732.2 | 5667.3 | 5637.5 | 3785.6 | 2021.1 | 1943.4 | 11.7 | 1.1 | 0.0 |
| 70° | 5538.4 | 5372.3 | 5290.3 | 5257.3 | 3537.5 | 1889.1 | 1812.4 | 11.7 | 1.1 | 0.0 |
| 72.5° | 4911.2 | 4788.7 | 4755.7 | 4650.3 | 3119.0 | 1658.0 | 1590.9 | 11.7 | 0.0 | 0.0 |
| 75° | 4028.4 | 3983.7 | 3943.2 | 3831.4 | 2535.5 | 1317.3 | 1257.6 | 10.6 | 0.0 | 0.0 |
| 77.5° | 2931.6 | 2865.6 | 2791.0 | 2669.6 | 1711.3 | 860.4 | 829.5 | 9.6 | 0.0 | 0.0 |
| 80° | 1321.5 | 1267.2 | 1249.1 | 1059.6 | 607.0 | 280.1 | 247.1 | 8.5 | 0.0 | 0.0 |
| 82.5° | 256.6 | 231.1 | 219.4 | 210.8 | 136.3 | 75.6 | 66.0 | 6.4 | 0.0 | 0.0 |
| 85° | 87.3 | 96.9 | 112.9 | 124.6 | 76.7 | 45.8 | 38.3 | 4.3 | 0.0 | 0.0 |
| 87.5° | 34.1 | 45.8 | 55.4 | 57.5 | 28.8 | 19.2 | 10.6 | 2.1 | 0.0 | 0.0 |
| 90° | 6.4 | 8.5 | 7.5 | 5.3 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 3.2 | 4.3 | 3.2 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 4.3 | 4.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 4.3 | 4.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 4.3 | 4.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 4.3 | 4.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 4.3 | 5.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 4.3 | 5.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 4.3 | 5.3 | 4.3 | 3.2 | 2.1 | 1.1 | 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)