

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: P579649

Luminaire Tested: **CTN-CA8-230-727-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
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-T5N-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: 23844 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U2 - G3

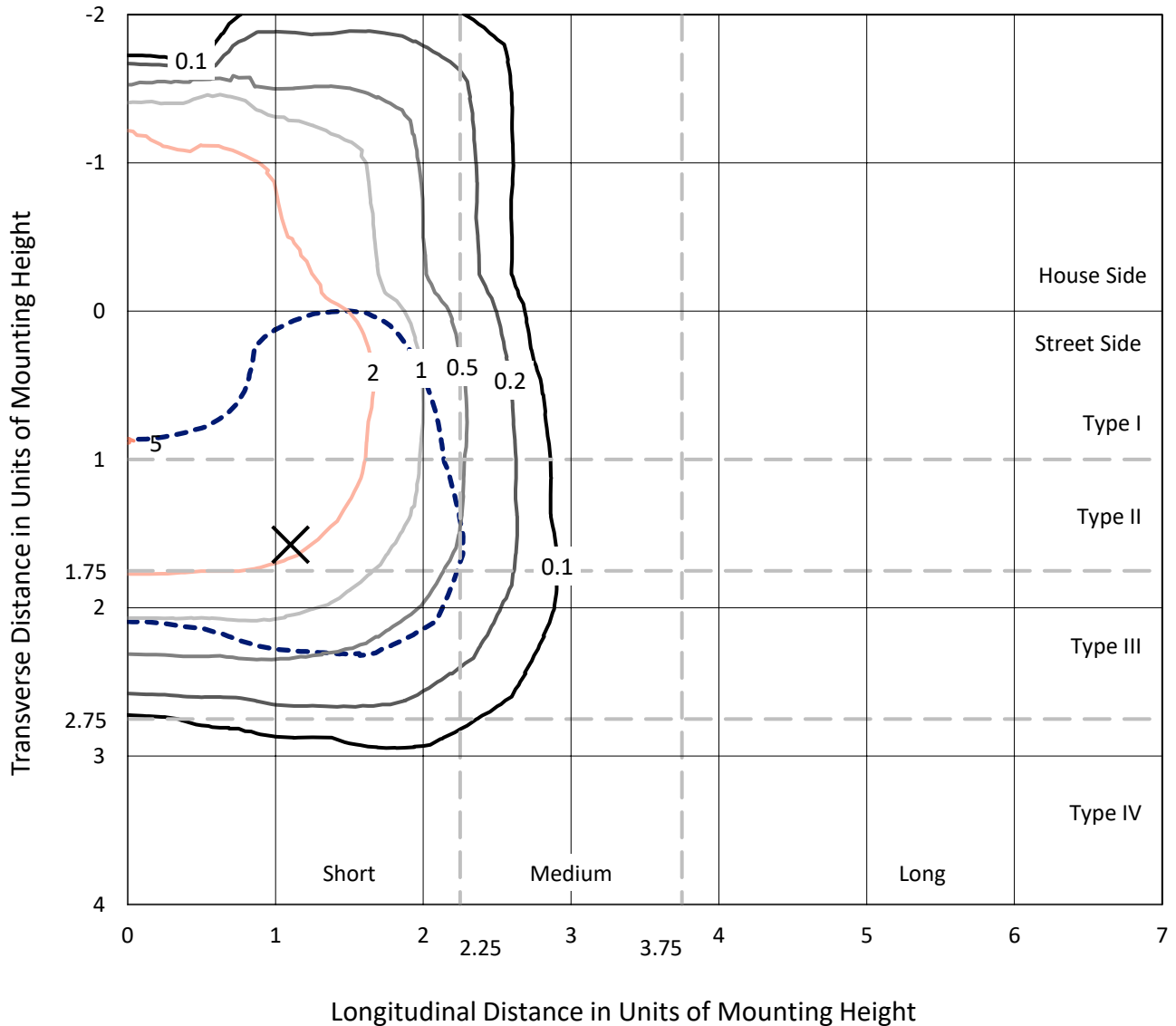
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

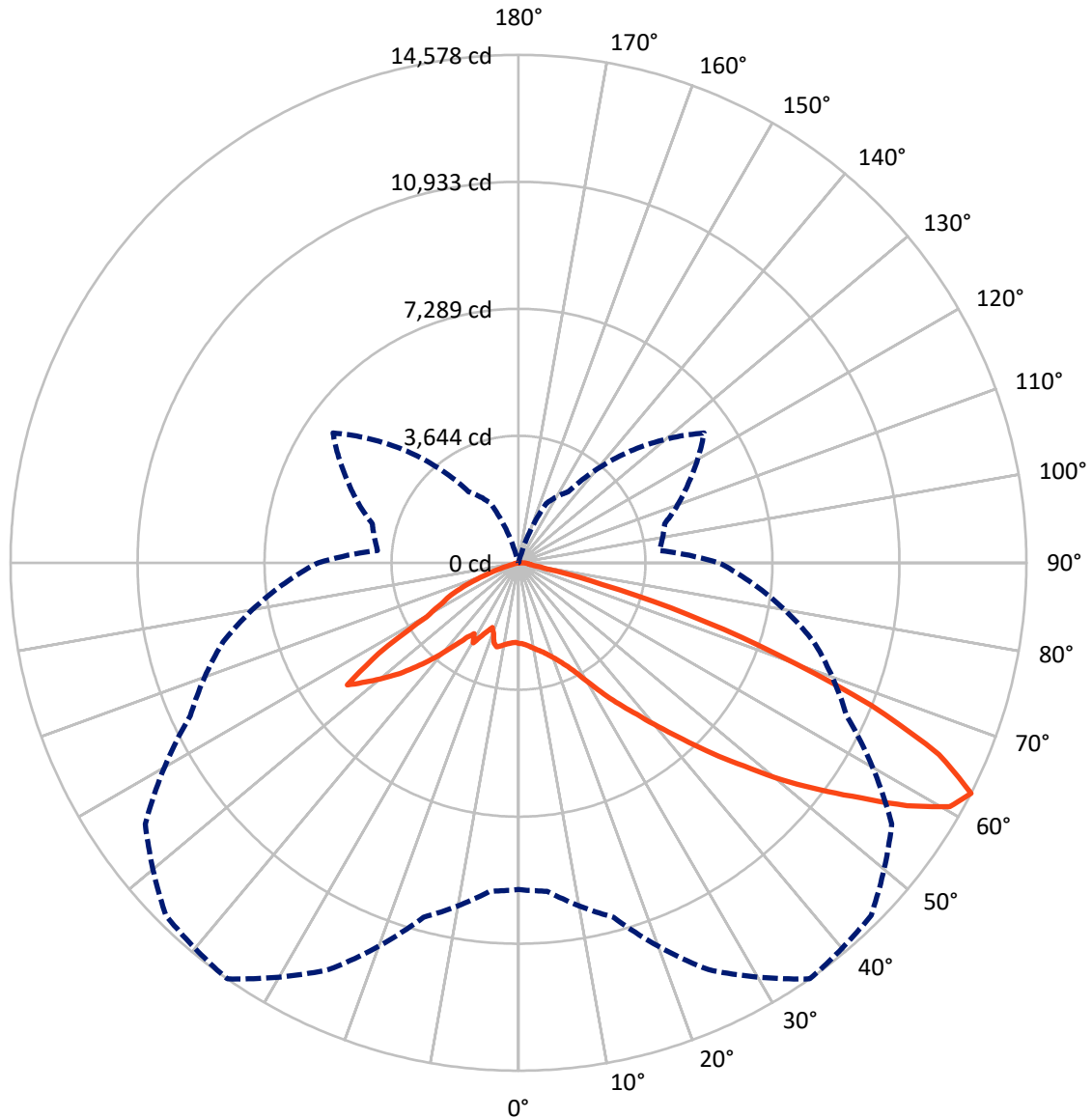
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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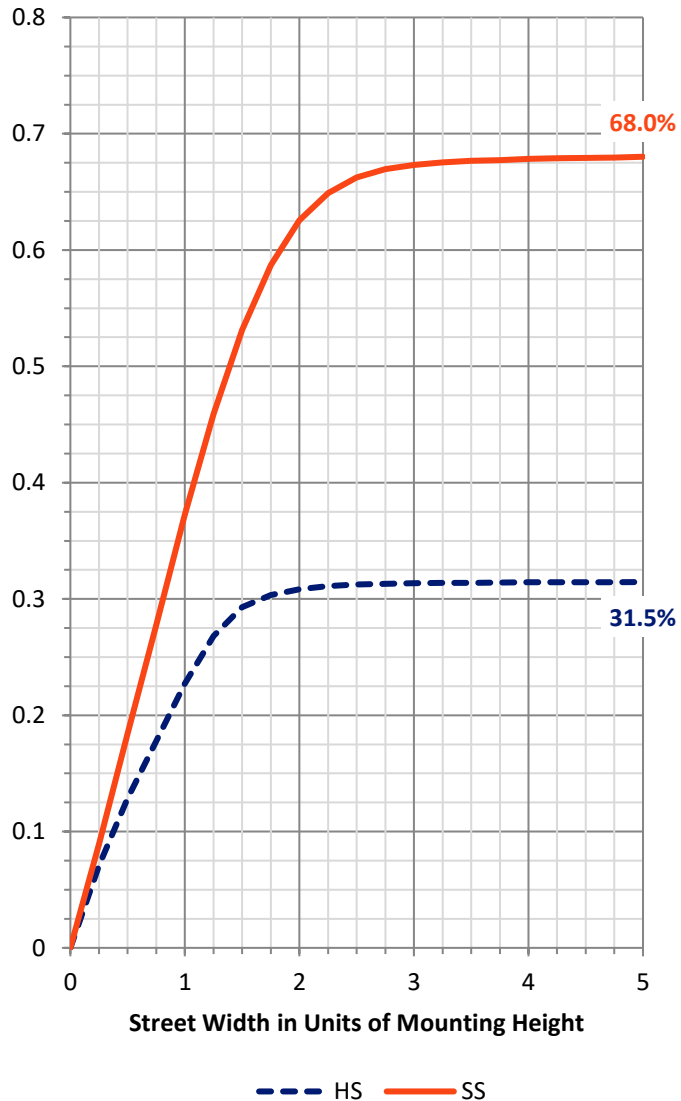
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7543.2 | 0.0 | 7543.2 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 16287.2 | 13.6 | 16300.8 |
| | % Fixture | 68.3 | 0.1 | 68.4 |
| Total | Lumens | 23830.4 | 13.6 | 23844.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 228.2 | 1.0 |
| 10°-20° | 733.8 | 3.1 |
| 20°-30° | 1362.6 | 5.7 |
| 30°-40° | 2686.4 | 11.3 |
| 40°-50° | 4822.4 | 20.2 |
| 50°-60° | 7009.9 | 29.4 |
| 60°-70° | 5761.0 | 24.2 |
| 70°-80° | 1095.1 | 4.6 |
| 80°-90° | 131.1 | 0.5 |
| 90°-100° | 12.4 | 0.1 |
| 100°-110° | 1.2 | 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° | 23830.4 | 99.9 |
| 0°-180° | 23844.0 | 100.0 |

Coefficient of Utilization

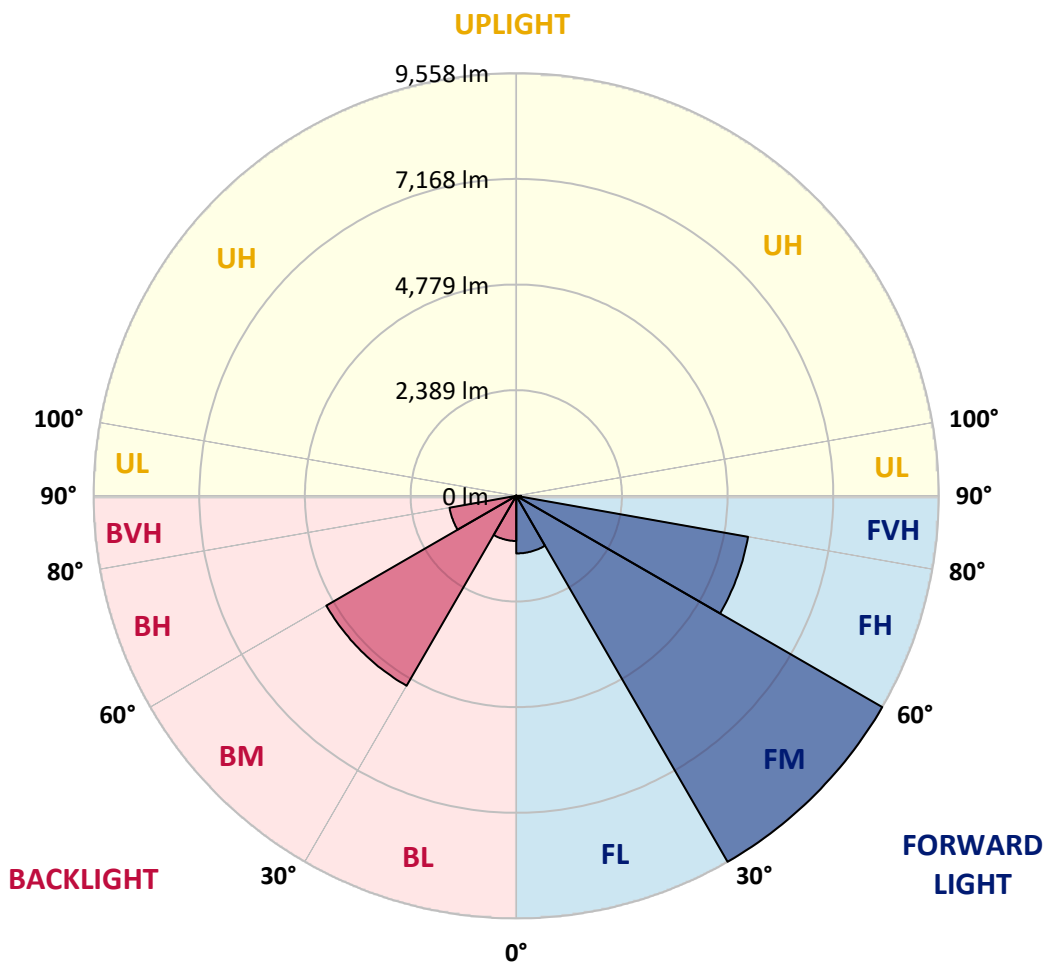


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1303.2 | 5.5 | | | |
| FM (30°-60°) | 9557.8 | 40.1 | | | |
| FH (60°-80°) | 5322.5 | 22.3 | | | G3/7500 |
| FVH (80°-90°) | 103.7 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1021.4 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 4960.9 | 20.8 | B3/5000 | | |
| BH (60°-80°) | 1533.5 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 27.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 12.4 | 0.1 | | U2/50 | |
| UH (100°-180°) | 1.2 | 0.0 | | U1/10 | |

BUG Rating: B3-U2-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 |
| 2.5° | 2373.5 | 2354.2 | 2356.1 | 2370.6 | 2327.0 | 2341.6 | 2321.2 | 2338.7 | 2330.9 | 2338.7 | 2343.5 |
| 5° | 2421.0 | 2396.8 | 2395.8 | 2410.4 | 2375.5 | 2384.2 | 2360.9 | 2372.6 | 2361.9 | 2371.6 | 2371.6 |
| 7.5° | 2479.2 | 2458.8 | 2454.0 | 2465.6 | 2434.6 | 2438.5 | 2415.2 | 2420.1 | 2407.5 | 2420.1 | 2410.4 |
| 10° | 2551.9 | 2533.5 | 2525.7 | 2531.5 | 2503.4 | 2505.4 | 2480.2 | 2482.1 | 2463.7 | 2474.3 | 2466.6 |
| 12.5° | 2628.4 | 2603.2 | 2599.4 | 2609.1 | 2580.0 | 2576.1 | 2554.8 | 2556.7 | 2536.4 | 2546.1 | 2540.3 |
| 15° | 2707.9 | 2681.8 | 2682.7 | 2692.4 | 2663.3 | 2665.3 | 2643.0 | 2646.9 | 2626.5 | 2636.2 | 2628.4 |
| 17.5° | 2813.6 | 2787.4 | 2785.5 | 2802.9 | 2778.7 | 2786.4 | 2763.2 | 2768.0 | 2753.5 | 2755.4 | 2746.7 |
| 20° | 2964.8 | 2930.8 | 2924.0 | 2949.2 | 2917.3 | 2927.0 | 2914.4 | 2930.8 | 2925.0 | 2920.2 | 2913.4 |
| 22.5° | 3145.0 | 3118.9 | 3105.3 | 3124.7 | 3086.9 | 3105.3 | 3112.1 | 3146.0 | 3154.7 | 3148.9 | 3042.3 |
| 25° | 3386.4 | 3372.8 | 3359.2 | 3350.5 | 3304.9 | 3334.0 | 3368.9 | 3425.1 | 3462.0 | 3476.5 | 3328.2 |
| 27.5° | 3712.0 | 3718.8 | 3659.7 | 3650.0 | 3598.6 | 3644.2 | 3707.2 | 3798.3 | 3872.9 | 3900.0 | 3700.4 |
| 30° | 4130.7 | 4139.4 | 4059.0 | 4035.7 | 4004.7 | 4043.5 | 4160.7 | 4260.6 | 4371.1 | 4416.6 | 4150.1 |
| 32.5° | 4687.0 | 4679.3 | 4561.0 | 4516.4 | 4488.3 | 4503.8 | 4626.9 | 4763.6 | 4887.6 | 4990.4 | 4662.8 |
| 35° | 5366.4 | 5342.2 | 5216.2 | 5093.1 | 4981.6 | 5029.1 | 5119.3 | 5285.0 | 5473.0 | 5624.2 | 5168.7 |
| 37.5° | 6155.3 | 6132.1 | 5940.2 | 5739.6 | 5519.5 | 5539.9 | 5620.3 | 5890.7 | 6133.0 | 6172.8 | 5082.4 |
| 40° | 6970.4 | 6960.7 | 6779.5 | 6524.6 | 6182.5 | 6086.5 | 6193.1 | 6522.7 | 6778.5 | 6085.6 | 5283.1 |
| 42.5° | 7784.5 | 7738.0 | 7636.3 | 7381.4 | 6925.8 | 6714.6 | 6858.0 | 7187.5 | 7462.8 | 6380.2 | 5748.3 |
| 45° | 8605.4 | 8558.0 | 8471.7 | 8284.6 | 7810.7 | 7503.5 | 7545.2 | 7910.5 | 8159.6 | 6932.6 | 6232.9 |
| 47.5° | 9334.3 | 9299.4 | 9237.4 | 9132.7 | 8710.1 | 8432.0 | 8351.5 | 8607.4 | 8777.0 | 7381.4 | 6605.0 |
| 50° | 9962.3 | 9932.3 | 9956.5 | 9921.6 | 9797.6 | 9505.8 | 9240.3 | 9223.8 | 9305.2 | 7780.7 | 6947.2 |
| 52.5° | 10514.8 | 10474.0 | 10577.8 | 10700.8 | 10815.2 | 10750.3 | 10107.7 | 9808.2 | 9734.6 | 8080.1 | 7176.9 |
| 55° | 10971.2 | 10956.7 | 11135.0 | 11467.5 | 11902.6 | 12073.2 | 11035.2 | 10348.1 | 10118.4 | 8334.1 | 7198.2 |
| 57.5° | 11244.6 | 11279.4 | 11656.5 | 12300.0 | 13151.0 | 13231.4 | 12120.7 | 10921.8 | 10456.6 | 8488.2 | 7299.9 |
| 60° | 10777.4 | 10895.6 | 11574.1 | 12924.2 | 14213.2 | 14248.1 | 12900.9 | 11036.2 | 10013.7 | 7933.8 | 6756.2 |
| 62.5° | 9377.9 | 9463.2 | 10530.3 | 12884.4 | 14577.6 | 14312.0 | 13075.4 | 10390.7 | 8776.0 | 6730.1 | 5746.3 |
| 65° | 6626.4 | 6725.2 | 8011.3 | 11618.7 | 13262.4 | 13272.1 | 11977.3 | 8985.4 | 7015.0 | 5210.4 | 4437.0 |
| 67.5° | 3996.9 | 4156.9 | 5375.1 | 8434.9 | 10919.9 | 11118.6 | 9992.4 | 6802.8 | 5020.4 | 3401.9 | 2871.7 |
| 70° | 1311.3 | 1457.7 | 2454.0 | 4992.3 | 7871.8 | 8722.7 | 7504.4 | 4420.5 | 2621.7 | 1438.3 | 1158.2 |
| 72.5° | 519.5 | 586.4 | 864.5 | 2207.8 | 5072.7 | 5823.9 | 4624.0 | 2136.1 | 880.0 | 381.9 | 332.4 |
| 75° | 347.0 | 353.8 | 399.3 | 752.1 | 2482.1 | 3184.8 | 2229.1 | 621.3 | 326.6 | 238.4 | 209.3 |
| 77.5° | 302.4 | 303.4 | 323.7 | 396.4 | 808.3 | 1221.2 | 641.6 | 333.4 | 270.4 | 195.8 | 173.5 |
| 80° | 277.2 | 281.1 | 293.7 | 338.2 | 370.2 | 414.8 | 316.9 | 278.2 | 234.5 | 180.3 | 163.8 |
| 82.5° | 265.6 | 268.5 | 276.2 | 306.3 | 299.5 | 311.1 | 255.9 | 221.0 | 197.7 | 165.7 | 157.0 |
| 85° | 242.3 | 247.1 | 252.0 | 270.4 | 246.2 | 213.2 | 197.7 | 148.3 | 141.5 | 125.0 | 115.3 |
| 87.5° | 183.2 | 182.2 | 177.4 | 180.3 | 164.8 | 134.7 | 111.5 | 83.4 | 67.8 | 56.2 | 46.5 |
| 90° | 76.6 | 77.5 | 74.6 | 70.8 | 62.0 | 51.4 | 38.8 | 23.3 | 11.6 | 3.9 | 1.9 |
| 92.5° | 58.2 | 59.1 | 57.2 | 51.4 | 44.6 | 35.9 | 26.2 | 13.6 | 7.8 | 2.9 | 1.0 |
| 95° | 35.9 | 36.8 | 34.9 | 31.0 | 27.1 | 20.4 | 13.6 | 8.7 | 4.8 | 1.9 | 0.0 |
| 97.5° | 21.3 | 22.3 | 20.4 | 18.4 | 14.5 | 9.7 | 7.8 | 5.8 | 3.9 | 1.9 | 0.0 |
| 100° | 12.6 | 12.6 | 11.6 | 9.7 | 6.8 | 5.8 | 4.8 | 3.9 | 2.9 | 1.0 | 0.0 |
| 102.5° | 5.8 | 5.8 | 5.8 | 3.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 1.0 | 0.0 |
| 105° | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.9 | 1.9 | 1.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 |



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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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 | 2314.4 |
| 2.5° | 2338.7 | 2320.2 | 2323.2 | 2306.7 | 2302.8 | 2285.4 | 2316.4 | 2319.3 | 2310.6 | 2319.3 |
| 5° | 2367.7 | 2345.4 | 2351.3 | 2332.8 | 2328.0 | 2303.8 | 2329.0 | 2327.0 | 2320.2 | 2329.0 |
| 7.5° | 2410.4 | 2385.2 | 2388.1 | 2366.8 | 2361.9 | 2334.8 | 2358.0 | 2351.3 | 2343.5 | 2354.2 |
| 10° | 2464.7 | 2440.4 | 2441.4 | 2412.3 | 2409.4 | 2378.4 | 2408.4 | 2395.8 | 2384.2 | 2399.7 |
| 12.5° | 2540.3 | 2506.3 | 2503.4 | 2471.4 | 2470.5 | 2438.5 | 2469.5 | 2458.8 | 2443.3 | 2467.6 |
| 15° | 2627.5 | 2581.9 | 2570.3 | 2529.6 | 2528.6 | 2494.7 | 2525.7 | 2509.2 | 2501.5 | 2530.6 |
| 17.5° | 2740.9 | 2683.7 | 2595.5 | 2456.9 | 2393.9 | 2404.6 | 2514.1 | 2553.8 | 2450.1 | 2465.6 |
| 20° | 2809.7 | 2532.5 | 2403.6 | 2346.4 | 2316.4 | 2143.9 | 1910.3 | 1929.7 | 2159.4 | 2268.9 |
| 22.5° | 2693.4 | 2611.0 | 2563.5 | 2483.1 | 2064.4 | 2005.3 | 2018.8 | 2014.9 | 1718.4 | 1630.2 |
| 25° | 2935.7 | 2858.1 | 2771.9 | 2275.7 | 2189.4 | 2164.2 | 2171.0 | 1892.8 | 1731.0 | 1737.8 |
| 27.5° | 3284.6 | 3184.8 | 2638.1 | 2423.0 | 2405.5 | 2368.7 | 2235.0 | 1900.6 | 1920.9 | 1934.5 |
| 30° | 3725.6 | 3370.8 | 2809.7 | 2715.7 | 2680.8 | 2641.0 | 2074.1 | 2123.5 | 2161.3 | 2203.0 |
| 32.5° | 4152.0 | 3278.8 | 3138.2 | 3040.4 | 2986.1 | 2397.8 | 2339.6 | 2430.7 | 2468.5 | 2504.4 |
| 35° | 4113.2 | 3673.2 | 3491.0 | 3367.0 | 3265.2 | 2587.7 | 2639.1 | 2777.7 | 2877.5 | 2876.6 |
| 37.5° | 4219.9 | 4102.6 | 3892.3 | 3735.3 | 2833.9 | 2898.9 | 3006.4 | 3164.4 | 3285.6 | 3284.6 |
| 40° | 4664.7 | 4537.8 | 4340.0 | 4002.8 | 3140.2 | 3291.4 | 3438.7 | 3587.0 | 3674.2 | 3681.0 |
| 42.5° | 5106.7 | 5008.8 | 4830.4 | 3535.6 | 3515.3 | 3724.6 | 3878.7 | 3972.7 | 4026.0 | 4044.4 |
| 45° | 5546.7 | 5454.6 | 4746.1 | 3910.7 | 3972.7 | 4180.1 | 4274.1 | 4292.5 | 4349.7 | 4347.8 |
| 47.5° | 5896.6 | 5818.1 | 4366.2 | 4356.5 | 4510.6 | 4654.1 | 4624.0 | 4600.8 | 4615.3 | 4623.0 |
| 50° | 6219.3 | 5065.0 | 4707.4 | 4848.9 | 5083.4 | 5100.9 | 4975.8 | 3941.7 | 4879.9 | 4863.4 |
| 52.5° | 5777.3 | 4942.9 | 5025.3 | 5356.7 | 5756.0 | 5553.5 | 5309.2 | 3455.2 | 4576.5 | 5011.7 |
| 55° | 5055.3 | 5138.7 | 5324.7 | 5881.1 | 6275.5 | 6035.2 | 5627.1 | 3557.9 | 3037.4 | 2472.4 |
| 57.5° | 5156.1 | 5287.9 | 5641.7 | 6410.2 | 6754.3 | 4780.1 | 5252.0 | 2508.3 | 1698.0 | 1697.1 |
| 60° | 4801.4 | 5001.0 | 5634.9 | 6647.7 | 5467.2 | 3062.6 | 2104.1 | 57.2 | 329.5 | 326.6 |
| 62.5° | 4059.0 | 4342.9 | 5376.1 | 6497.5 | 4529.0 | 2488.9 | 1874.4 | 4.8 | 1.9 | 1.9 |
| 65° | 3139.2 | 3473.6 | 4482.5 | 5626.2 | 4012.5 | 2143.9 | 1391.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2058.6 | 2368.7 | 3366.0 | 4673.4 | 3331.1 | 1620.5 | 935.3 | 0.0 | 0.0 | 0.0 |
| 70° | 857.7 | 1240.6 | 2091.5 | 3377.6 | 2450.1 | 1061.3 | 443.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 248.1 | 378.0 | 942.1 | 2016.9 | 1520.7 | 555.3 | 164.8 | 0.0 | 0.0 | 0.0 |
| 75° | 163.8 | 172.5 | 284.9 | 811.2 | 739.5 | 203.5 | 66.9 | 0.0 | 0.0 | 0.0 |
| 77.5° | 137.6 | 141.5 | 181.2 | 226.8 | 237.5 | 80.4 | 54.3 | 0.0 | 0.0 | 0.0 |
| 80° | 127.0 | 127.9 | 162.8 | 168.6 | 127.0 | 66.9 | 53.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 118.2 | 115.3 | 138.6 | 133.7 | 105.6 | 58.2 | 49.4 | 0.0 | 0.0 | 0.0 |
| 85° | 81.4 | 83.4 | 94.0 | 119.2 | 64.0 | 29.1 | 34.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.2 | 29.1 | 36.8 | 37.8 | 11.6 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 1.0 | 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)