

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637900

Luminaire Tested: GWS-SA4D-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23864.6 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

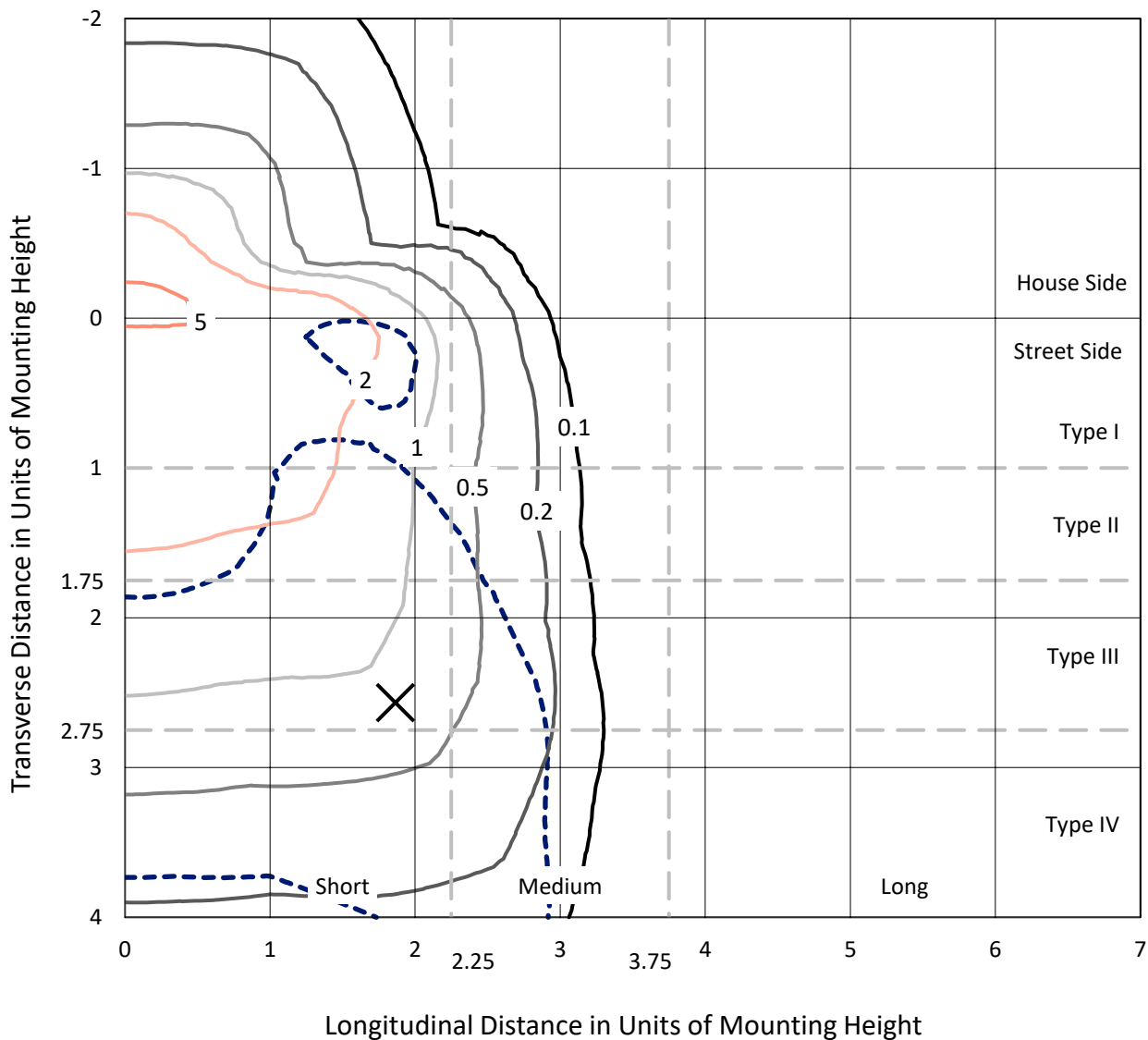
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

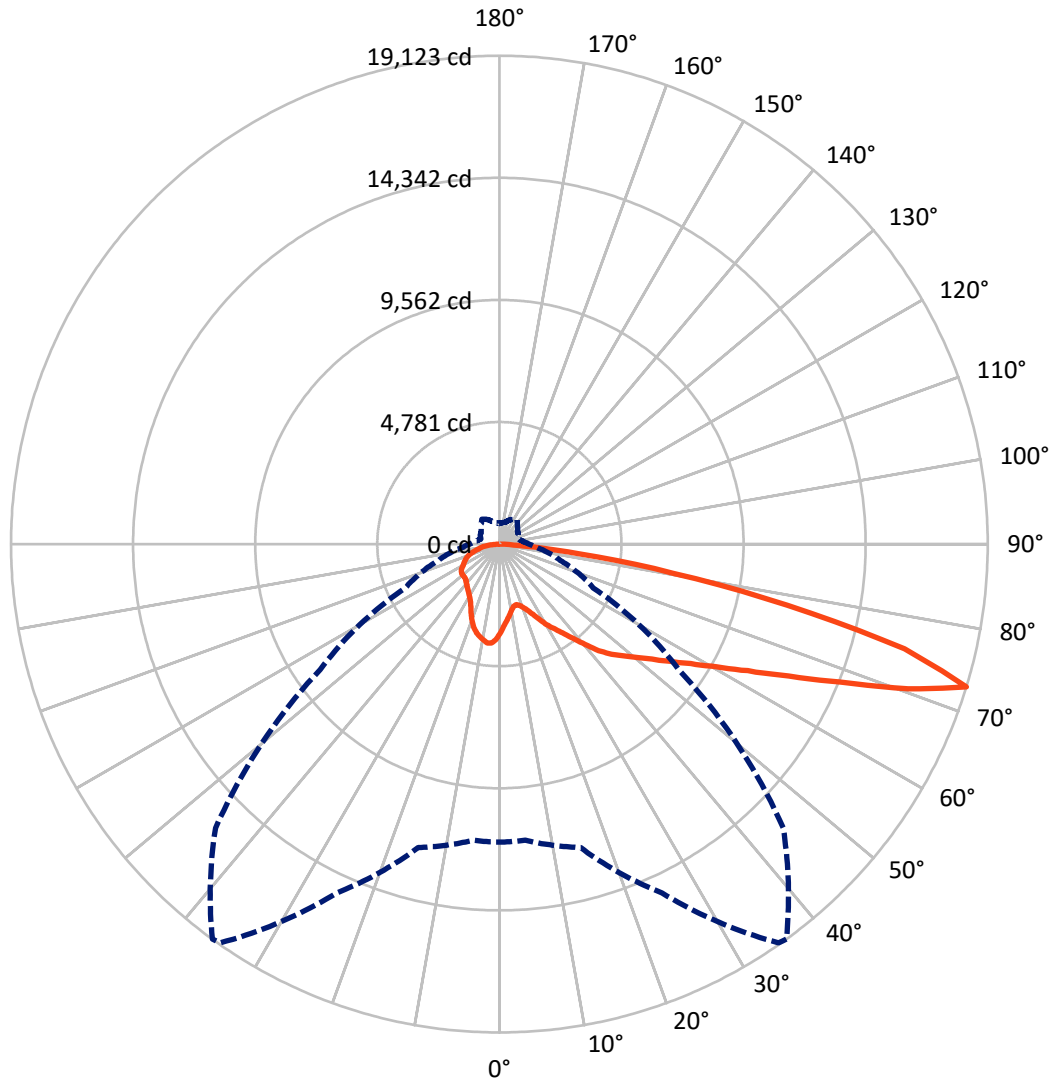
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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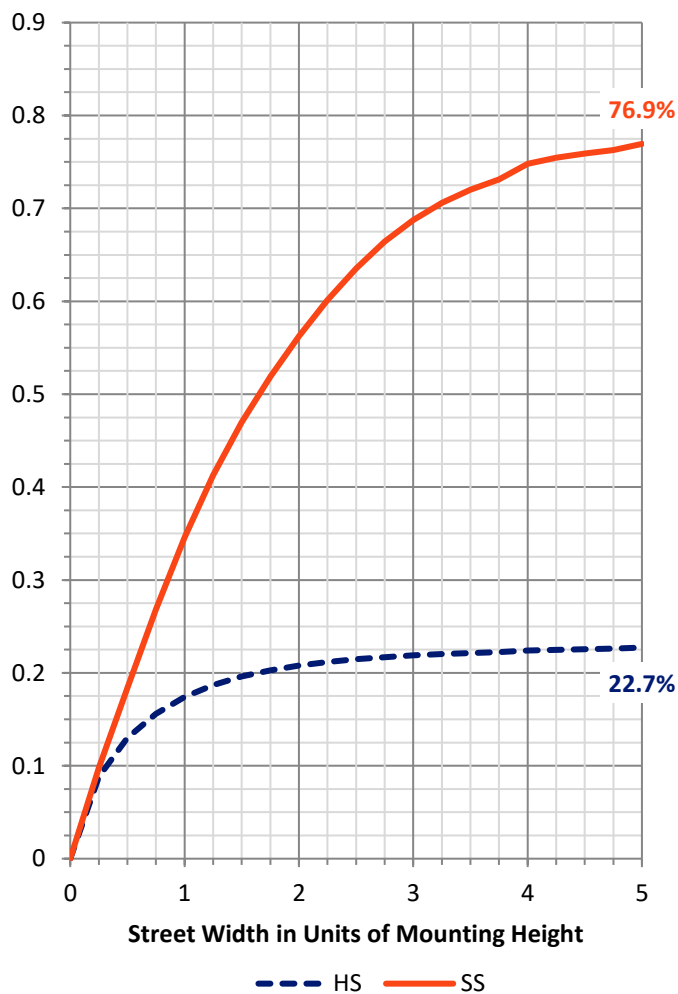
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5501.8 | 0.0 | 5501.8 |
| | % Fixture | 23.1 | 0.0 | 23.1 |
| Street Side | Lumens | 18362.8 | 0.0 | 18362.8 |
| | % Fixture | 76.9 | 0.0 | 76.9 |
| Total | Lumens | 23864.6 | 0.0 | 23864.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 326.5 | 1.4 |
| 10°-20° | 921.1 | 3.9 |
| 20°-30° | 1525.5 | 6.4 |
| 30°-40° | 2284.5 | 9.6 |
| 40°-50° | 3332.9 | 14.0 |
| 50°-60° | 4743.8 | 19.9 |
| 60°-70° | 5993.4 | 25.1 |
| 70°-80° | 4270.8 | 17.9 |
| 80°-90° | 466.2 | 2.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 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° | 23864.6 | 100.0 |
| 0°-180° | 23864.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P637900

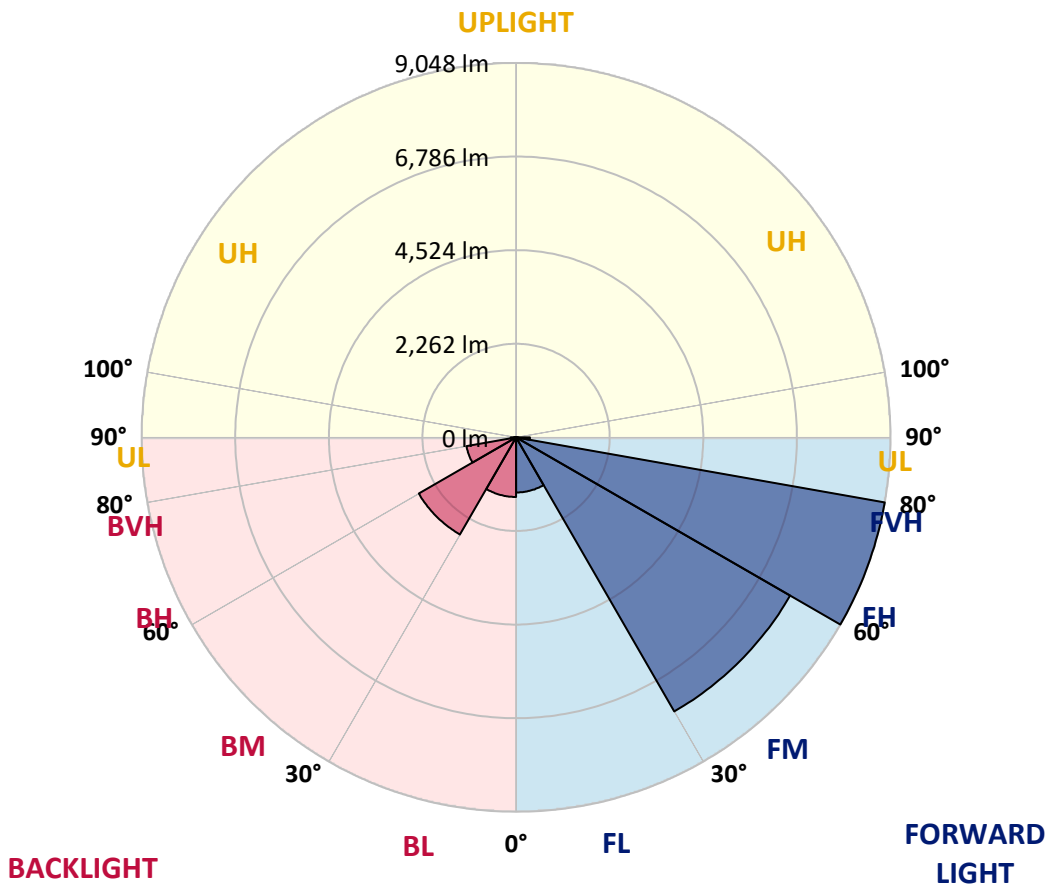
CATALOG NUMBER: GWS-SA4D-760-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1332.3 | 5.6 | | | |
| FM (30°-60°) | 7648.0 | 32.0 | | | |
| FH (60°-80°) | 9047.9 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 334.6 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1440.8 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2713.2 | 11.4 | B3/5000 | | |
| BH (60°-80°) | 1216.3 | 5.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 131.6 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| 0° | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 |
| 2.5° | 3186.3 | 3181.0 | 3170.3 | 3202.2 | 3234.1 | 3230.6 | 3274.8 | 3317.3 | 3363.4 | 3411.2 | 3475.0 |
| 5° | 2931.2 | 2927.7 | 2918.8 | 2966.7 | 3014.5 | 3012.7 | 3085.3 | 3154.4 | 3248.3 | 3351.0 | 3478.5 |
| 7.5° | 2676.2 | 2667.3 | 2679.7 | 2740.0 | 2807.3 | 2814.3 | 2913.5 | 3026.9 | 3163.3 | 3317.3 | 3498.0 |
| 10° | 2451.3 | 2449.5 | 2454.8 | 2522.1 | 2623.1 | 2630.1 | 2757.7 | 2915.3 | 3096.0 | 3301.4 | 3542.3 |
| 12.5° | 2392.8 | 2389.3 | 2375.1 | 2408.8 | 2484.9 | 2495.5 | 2635.5 | 2828.5 | 3049.9 | 3310.3 | 3602.5 |
| 15° | 2488.5 | 2479.6 | 2430.0 | 2414.1 | 2451.3 | 2460.1 | 2578.8 | 2777.1 | 3023.3 | 3326.2 | 3678.7 |
| 17.5° | 2653.2 | 2647.9 | 2554.0 | 2488.5 | 2513.2 | 2520.3 | 2608.9 | 2768.3 | 3016.3 | 3358.1 | 3772.5 |
| 20° | 2894.0 | 2871.0 | 2724.0 | 2624.8 | 2624.8 | 2635.5 | 2688.6 | 2807.3 | 3025.1 | 3397.0 | 3878.8 |
| 22.5° | 3212.9 | 3166.8 | 2959.6 | 2825.0 | 2789.5 | 2803.7 | 2826.7 | 2904.7 | 3062.3 | 3462.6 | 4011.6 |
| 25° | 3570.6 | 3528.1 | 3281.9 | 3092.4 | 3042.8 | 3048.1 | 3028.7 | 3042.8 | 3143.8 | 3552.9 | 4176.4 |
| 27.5° | 3951.4 | 3923.1 | 3660.9 | 3420.1 | 3342.1 | 3342.1 | 3273.1 | 3239.4 | 3257.1 | 3655.6 | 4360.6 |
| 30° | 4291.5 | 4252.5 | 4031.1 | 3767.2 | 3664.5 | 3664.5 | 3533.4 | 3460.8 | 3418.3 | 3781.4 | 4606.7 |
| 32.5° | 4470.4 | 4447.3 | 4300.3 | 4098.4 | 3972.7 | 3953.2 | 3839.8 | 3754.8 | 3655.6 | 3967.4 | 4939.7 |
| 35° | 4704.2 | 4698.8 | 4610.3 | 4452.6 | 4293.2 | 4264.9 | 4187.0 | 4119.7 | 3947.9 | 4199.4 | 5382.5 |
| 37.5° | 4998.2 | 4989.3 | 4975.1 | 4881.3 | 4690.0 | 4684.7 | 4615.6 | 4534.1 | 4311.0 | 4534.1 | 5919.2 |
| 40° | 5327.6 | 5311.7 | 5293.9 | 5292.2 | 5177.0 | 5157.6 | 5152.3 | 5060.2 | 4748.4 | 4937.9 | 6478.8 |
| 42.5° | 5781.0 | 5726.1 | 5559.6 | 5634.0 | 5719.0 | 5701.3 | 5768.6 | 5630.5 | 5293.9 | 5417.9 | 7008.4 |
| 45° | 6338.9 | 6204.3 | 5874.9 | 5896.1 | 6110.4 | 6145.9 | 6379.7 | 6346.0 | 5894.4 | 5972.3 | 7566.3 |
| 47.5° | 6673.7 | 6556.8 | 6250.4 | 6232.6 | 6500.1 | 6544.4 | 7052.7 | 7116.4 | 6540.8 | 6640.0 | 8255.3 |
| 50° | 6948.2 | 6866.7 | 6615.2 | 6640.0 | 6923.4 | 6967.7 | 7720.4 | 7856.8 | 7150.1 | 7323.7 | 9055.8 |
| 52.5° | 7279.4 | 7162.5 | 6967.7 | 7084.6 | 7431.7 | 7484.8 | 8462.5 | 8609.5 | 7699.2 | 8074.6 | 9884.7 |
| 55° | 7465.4 | 7417.5 | 7421.1 | 7600.0 | 8035.7 | 8108.3 | 9240.0 | 9215.2 | 8202.2 | 8717.6 | 10508.2 |
| 57.5° | 7894.0 | 7876.3 | 8039.2 | 8106.5 | 8740.6 | 8834.5 | 10017.6 | 9805.0 | 8659.1 | 9215.2 | 10807.5 |
| 60° | 8650.3 | 8606.0 | 8747.7 | 8850.4 | 9612.0 | 9744.8 | 10885.4 | 10382.4 | 8969.1 | 9585.4 | 10706.6 |
| 62.5° | 9712.9 | 9658.0 | 9663.3 | 9826.3 | 10779.2 | 10919.1 | 11850.7 | 10864.2 | 9064.7 | 9642.1 | 10067.2 |
| 65° | 11034.2 | 10954.5 | 10864.2 | 11085.6 | 12328.9 | 12445.8 | 12901.0 | 11214.9 | 8836.2 | 9096.6 | 8731.7 |
| 67.5° | 12428.1 | 12362.6 | 12256.3 | 12720.3 | 14335.6 | 14406.5 | 14078.8 | 11184.8 | 8111.8 | 7637.2 | 6124.6 |
| 70° | 12509.6 | 12525.5 | 13028.5 | 14707.6 | 16955.1 | 16972.8 | 15192.9 | 10579.0 | 6569.2 | 4950.3 | 3051.7 |
| 72.5° | 11670.1 | 11643.5 | 12298.8 | 15070.6 | 19062.8 | 19123.0 | 15718.9 | 8570.6 | 4059.5 | 2469.0 | 1431.1 |
| 75° | 9479.1 | 9525.2 | 10214.2 | 13186.1 | 16338.8 | 16391.9 | 12814.2 | 5053.1 | 1928.8 | 1207.9 | 915.7 |
| 77.5° | 4080.7 | 4337.5 | 5696.0 | 9289.6 | 11701.9 | 11537.2 | 6604.6 | 2047.4 | 1029.0 | 860.8 | 701.4 |
| 80° | 1177.8 | 1278.8 | 2029.7 | 4417.2 | 7011.9 | 6888.0 | 2614.2 | 766.9 | 717.3 | 646.5 | 503.0 |
| 82.5° | 380.8 | 421.5 | 743.9 | 1758.7 | 3142.0 | 3138.5 | 991.8 | 453.4 | 469.4 | 439.2 | 324.1 |
| 85° | 106.3 | 122.2 | 228.5 | 533.1 | 972.4 | 952.9 | 286.9 | 214.3 | 249.7 | 253.3 | 161.2 |
| 87.5° | 0.0 | 0.0 | 1.8 | 3.5 | 3.5 | 3.5 | 7.1 | 31.9 | 72.6 | 92.1 | 65.5 |
| 90° | 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 | 3492.7 |
| 2.5° | 3513.9 | 3508.6 | 3581.2 | 3637.9 | 3691.1 | 3726.5 | 3737.1 | 3744.2 | 3758.4 | 3765.4 | 3758.4 |
| 5° | 3538.7 | 3565.3 | 3685.7 | 3774.3 | 3845.1 | 3887.7 | 3889.4 | 3885.9 | 3896.5 | 3887.7 | 3882.3 |
| 7.5° | 3591.9 | 3643.2 | 3795.6 | 3889.4 | 3935.5 | 3937.2 | 3894.7 | 3845.1 | 3820.4 | 3799.1 | 3792.0 |
| 10° | 3662.7 | 3738.9 | 3905.4 | 3967.4 | 3953.2 | 3887.7 | 3793.8 | 3715.9 | 3671.6 | 3639.7 | 3632.6 |
| 12.5° | 3760.1 | 3845.1 | 4002.8 | 4001.0 | 3912.5 | 3795.6 | 3685.7 | 3591.9 | 3528.1 | 3490.9 | 3478.5 |
| 15° | 3852.2 | 3960.3 | 4073.6 | 3990.4 | 3850.5 | 3708.8 | 3567.1 | 3441.3 | 3356.3 | 3297.9 | 3287.2 |
| 17.5° | 3965.6 | 4080.7 | 4125.0 | 3956.7 | 3772.5 | 3590.1 | 3400.6 | 3235.9 | 3120.8 | 3051.7 | 3046.4 |
| 20° | 4096.7 | 4199.4 | 4149.8 | 3898.3 | 3671.6 | 3432.5 | 3175.7 | 2991.5 | 2867.5 | 2800.2 | 2805.5 |
| 22.5° | 4249.0 | 4323.4 | 4156.9 | 3818.6 | 3531.7 | 3209.3 | 2922.4 | 2745.3 | 2662.0 | 2626.6 | 2628.4 |
| 25° | 4411.9 | 4459.7 | 4144.5 | 3710.5 | 3317.3 | 2936.6 | 2662.0 | 2580.6 | 2573.5 | 2564.6 | 2568.2 |
| 27.5° | 4605.0 | 4594.3 | 4107.3 | 3558.2 | 3028.7 | 2619.5 | 2479.6 | 2500.9 | 2529.2 | 2525.6 | 2529.2 |
| 30° | 4863.6 | 4762.6 | 4059.5 | 3347.5 | 2685.1 | 2353.8 | 2371.6 | 2431.8 | 2469.0 | 2472.5 | 2483.1 |
| 32.5° | 5159.3 | 4948.6 | 3983.3 | 3060.5 | 2357.4 | 2205.1 | 2270.6 | 2343.2 | 2387.5 | 2396.4 | 2410.5 |
| 35° | 5511.8 | 5161.1 | 3848.7 | 2702.8 | 2121.8 | 2116.5 | 2176.7 | 2226.3 | 2274.1 | 2277.7 | 2277.7 |
| 37.5° | 5917.4 | 5373.6 | 3634.4 | 2307.8 | 1976.6 | 2040.4 | 2097.0 | 2107.7 | 2120.1 | 2109.4 | 2114.7 |
| 40° | 6289.3 | 5579.1 | 3329.7 | 1948.3 | 1857.9 | 1973.1 | 2020.9 | 1985.4 | 1946.5 | 1919.9 | 1925.2 |
| 42.5° | 6601.0 | 5719.0 | 2925.9 | 1696.8 | 1737.5 | 1912.8 | 1950.0 | 1877.4 | 1801.3 | 1751.7 | 1758.7 |
| 45° | 6951.7 | 5848.3 | 2451.3 | 1526.7 | 1634.8 | 1870.3 | 1895.1 | 1801.3 | 1703.8 | 1629.5 | 1618.8 |
| 47.5° | 7435.3 | 6112.2 | 2029.7 | 1408.1 | 1562.1 | 1847.3 | 1888.0 | 1760.5 | 1633.0 | 1521.4 | 1509.0 |
| 50° | 8032.1 | 6485.9 | 1677.3 | 1330.1 | 1528.5 | 1834.9 | 1886.3 | 1716.2 | 1563.9 | 1432.9 | 1424.0 |
| 52.5° | 8683.9 | 6850.8 | 1416.9 | 1269.9 | 1494.8 | 1797.7 | 1877.4 | 1666.6 | 1491.3 | 1349.6 | 1339.0 |
| 55° | 9117.8 | 6994.2 | 1241.6 | 1213.2 | 1439.9 | 1739.3 | 1842.0 | 1618.8 | 1381.5 | 1252.2 | 1236.3 |
| 57.5° | 9245.4 | 6810.0 | 1119.4 | 1161.9 | 1369.1 | 1657.8 | 1774.7 | 1517.9 | 1314.2 | 1211.5 | 1199.1 |
| 60° | 9025.7 | 6346.0 | 1043.2 | 1119.4 | 1291.2 | 1553.3 | 1657.8 | 1459.4 | 1261.1 | 1169.0 | 1160.1 |
| 62.5° | 8405.8 | 5630.5 | 984.8 | 1075.1 | 1211.5 | 1443.5 | 1583.4 | 1388.6 | 1202.6 | 1130.0 | 1117.6 |
| 65° | 7159.0 | 4617.4 | 936.9 | 1029.0 | 1135.3 | 1339.0 | 1501.9 | 1317.7 | 1138.8 | 1083.9 | 1069.8 |
| 67.5° | 5007.0 | 3243.0 | 885.6 | 974.1 | 1059.1 | 1238.0 | 1416.9 | 1252.2 | 1073.3 | 1032.6 | 1018.4 |
| 70° | 2447.7 | 1719.8 | 823.6 | 910.4 | 977.7 | 1135.3 | 1331.9 | 1172.5 | 986.5 | 963.5 | 944.0 |
| 72.5° | 1165.4 | 961.7 | 751.0 | 823.6 | 866.1 | 998.9 | 1190.2 | 1057.4 | 883.8 | 834.2 | 800.6 |
| 75° | 781.1 | 683.7 | 655.3 | 720.9 | 731.5 | 837.7 | 1020.2 | 912.1 | 779.3 | 722.6 | 694.3 |
| 77.5° | 591.6 | 522.5 | 550.8 | 609.3 | 588.0 | 689.0 | 839.5 | 813.0 | 703.1 | 651.8 | 637.6 |
| 80° | 416.2 | 380.8 | 437.5 | 472.9 | 457.0 | 586.2 | 756.3 | 696.1 | 579.2 | 522.5 | 511.9 |
| 82.5° | 262.1 | 255.0 | 322.3 | 327.7 | 333.0 | 464.0 | 621.7 | 547.3 | 449.9 | 370.2 | 343.6 |
| 85° | 131.1 | 145.2 | 193.1 | 193.1 | 191.3 | 239.1 | 354.2 | 308.2 | 242.6 | 193.1 | 187.7 |
| 87.5° | 44.3 | 62.0 | 83.2 | 67.3 | 51.4 | 40.7 | 46.0 | 56.7 | 60.2 | 58.4 | 58.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)