

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: STREETWORKS

Report Number: P510577

Luminaire Tested: **CST-CA10-760-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-722-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86182 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

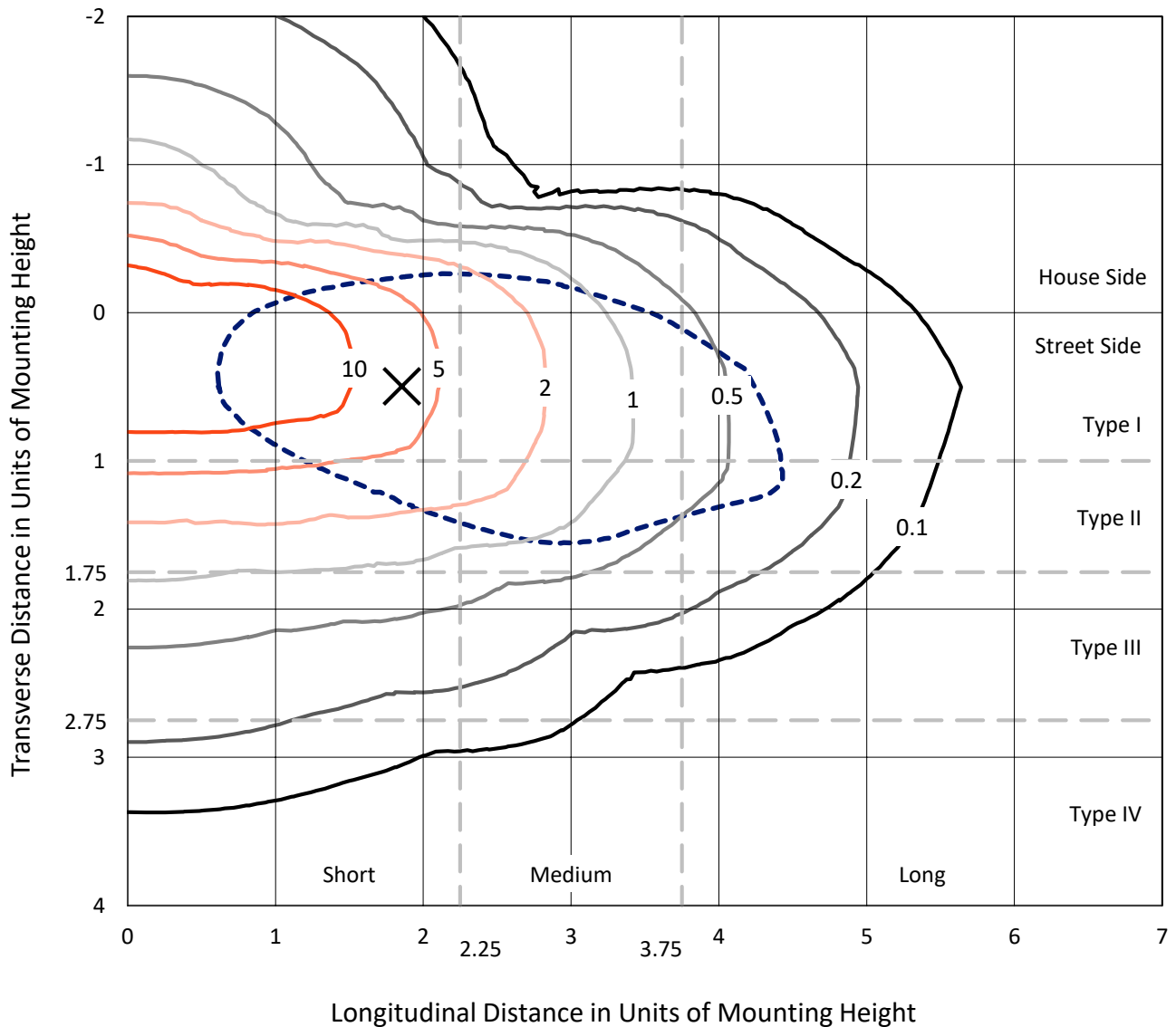
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

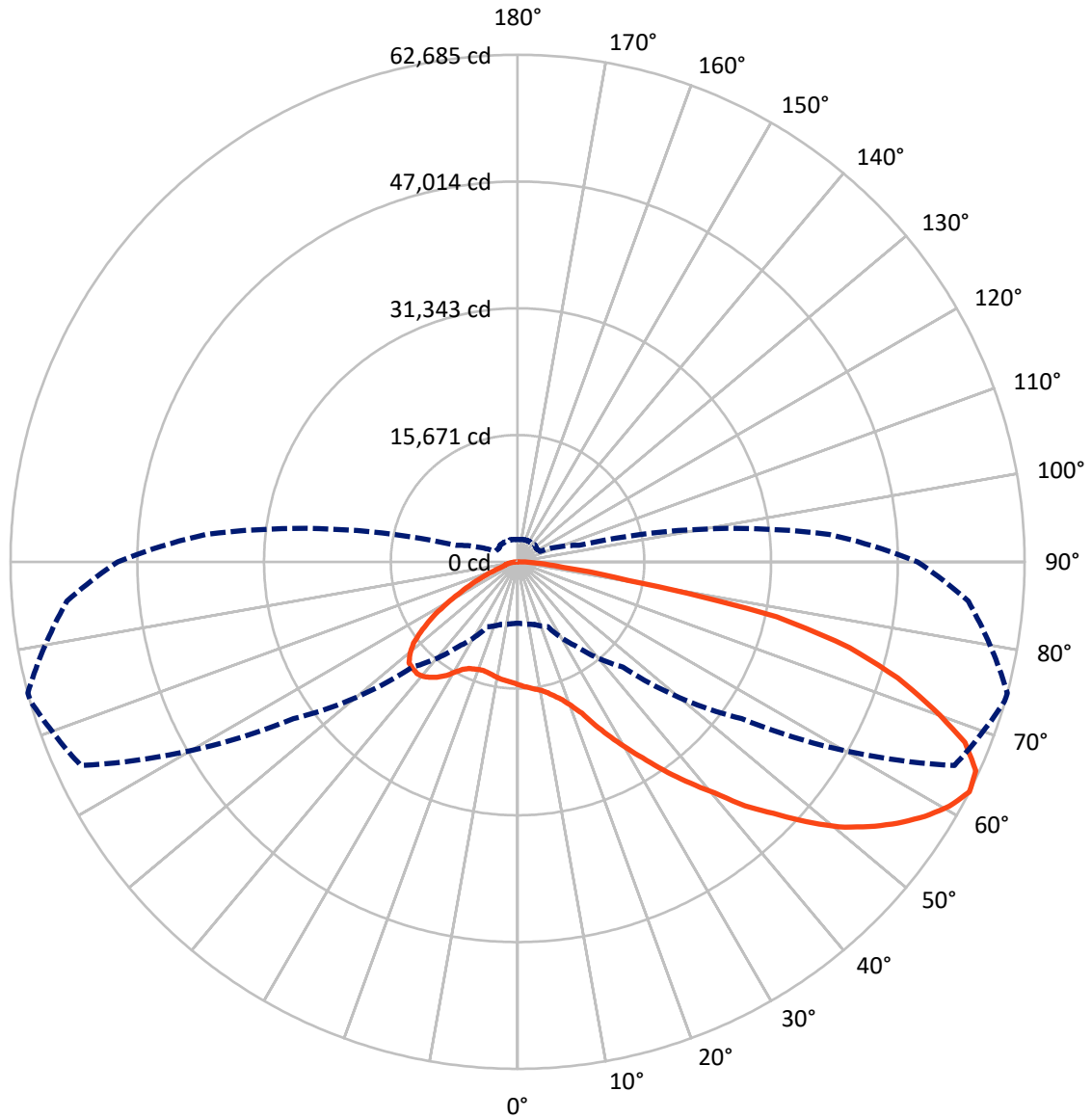
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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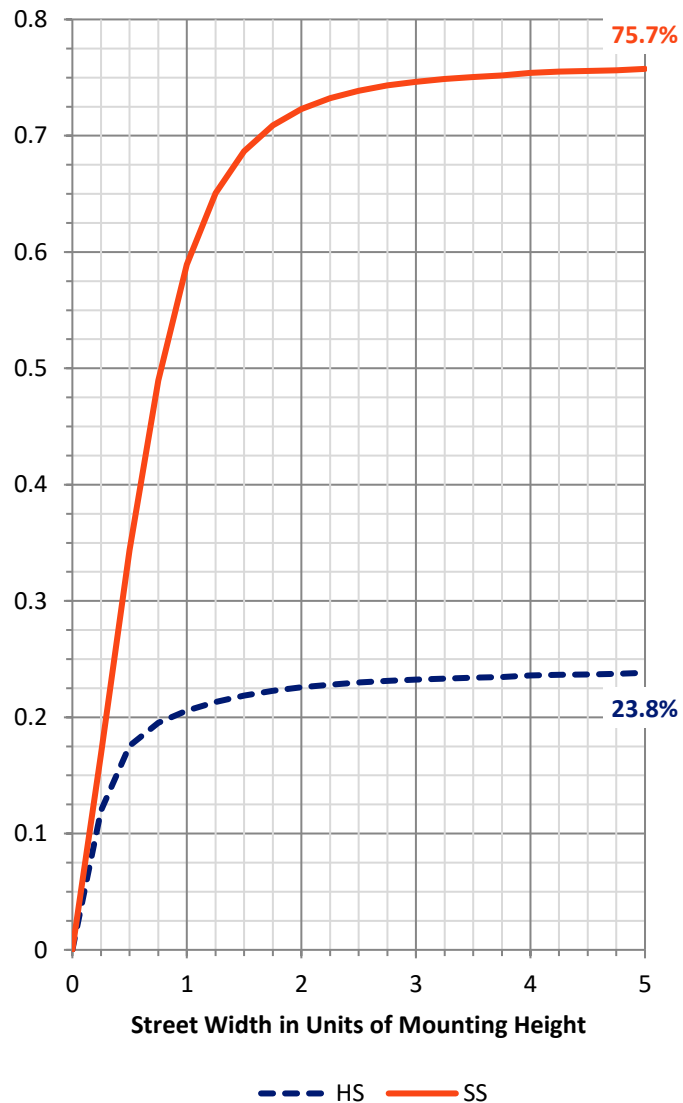
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20880.4 | 0.0 | 20880.4 |
| | % Fixture | 24.2 | 0.0 | 24.2 |
| Street Side | Lumens | 65301.6 | 0.0 | 65301.6 |
| | % Fixture | 75.8 | 0.0 | 75.8 |
| Total | Lumens | 86182.0 | 0.0 | 86182.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1461.5 | 1.7 |
| 10°-20° | 4435.6 | 5.1 |
| 20°-30° | 7650.3 | 8.9 |
| 30°-40° | 11280.5 | 13.1 |
| 40°-50° | 14870.1 | 17.3 |
| 50°-60° | 17500.8 | 20.3 |
| 60°-70° | 17411.6 | 20.2 |
| 70°-80° | 10153.9 | 11.8 |
| 80°-90° | 1417.8 | 1.6 |
| 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° | 86182.0 | 100.0 |
| 0°-180° | 86182.0 | 100.0 |

Coefficient of Utilization

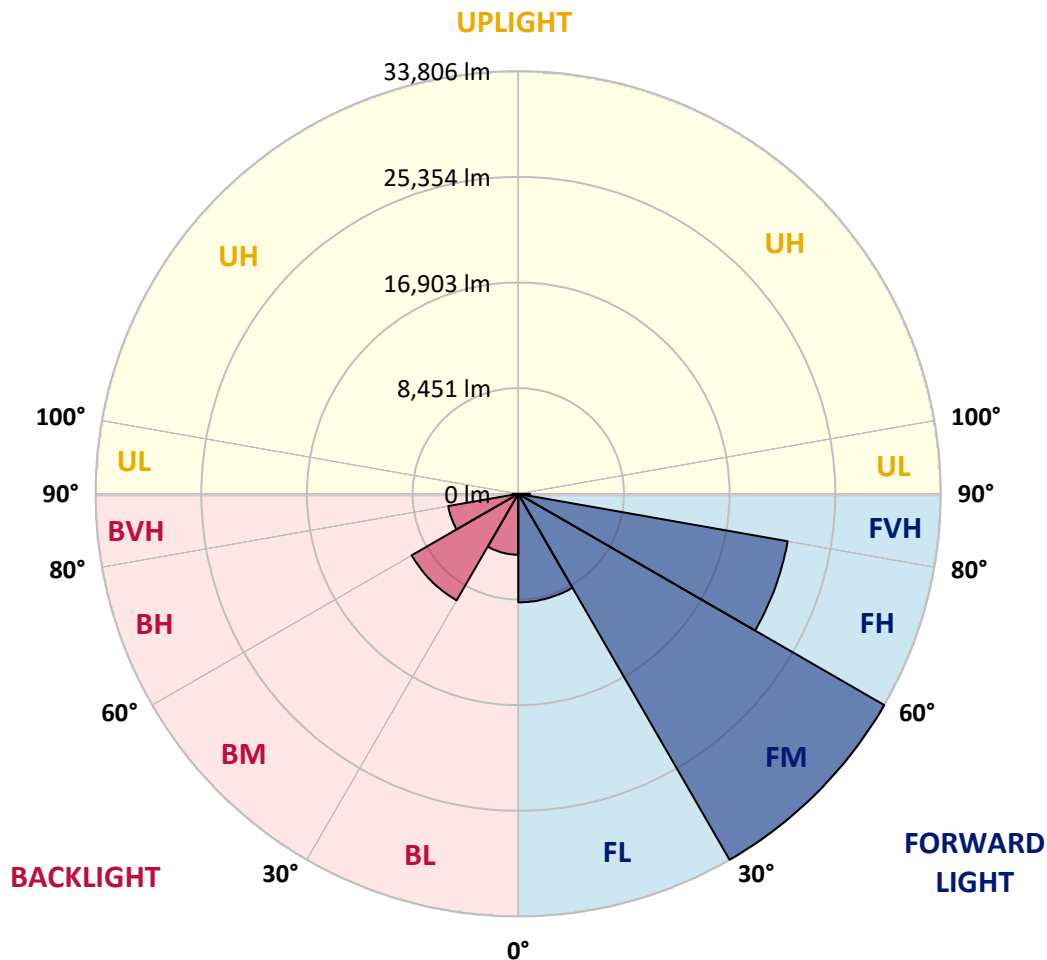


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 8678.2 | 10.1 | | | |
| FM (30°-60°) | 33805.7 | 39.2 | | | |
| FH (60°-80°) | 21877.0 | 25.4 | | | G5 |
| FVH (80°-90°) | 940.8 | 1.1 | | | G5 |
| BL (0°-30°) | 4869.2 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 9845.7 | 11.4 | B5 | | |
| BH (60°-80°) | 5688.5 | 6.6 | B5 | | G5 |
| BVH (80°-90°) | 476.9 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 |
| 2.5° | 16023.8 | 15958.2 | 15967.0 | 15920.9 | 15851.7 | 15800.3 | 15665.5 | 15520.1 | 15433.1 | 15426.0 | 15301.9 |
| 5° | 16829.1 | 16850.3 | 16855.7 | 16708.4 | 16563.0 | 16398.0 | 16192.3 | 15912.0 | 15683.2 | 15647.8 | 15406.5 |
| 7.5° | 17563.4 | 17561.6 | 17551.0 | 17469.4 | 17402.0 | 17157.2 | 16745.7 | 16305.8 | 15933.3 | 15899.6 | 15507.6 |
| 10° | 18315.4 | 18310.1 | 18203.7 | 18067.1 | 17914.6 | 17689.3 | 17336.3 | 16809.6 | 16206.5 | 16162.1 | 15601.6 |
| 12.5° | 19134.9 | 19076.4 | 19009.0 | 18844.0 | 18663.1 | 18272.9 | 17902.2 | 17329.3 | 16699.6 | 16619.8 | 15768.4 |
| 15° | 19810.7 | 19750.4 | 19656.4 | 19544.6 | 19354.8 | 19056.9 | 18663.1 | 17983.8 | 17308.0 | 17229.9 | 16142.6 |
| 17.5° | 20479.4 | 20451.0 | 20383.6 | 20264.8 | 20119.3 | 19862.1 | 19500.3 | 18923.8 | 18038.7 | 17943.0 | 16765.2 |
| 20° | 21027.5 | 20960.1 | 20910.4 | 20965.4 | 20977.8 | 20788.0 | 20589.4 | 20105.1 | 19129.6 | 18982.4 | 17529.7 |
| 22.5° | 21339.6 | 21325.4 | 21596.8 | 21799.0 | 21880.6 | 21923.2 | 21861.1 | 21470.9 | 20587.6 | 20330.4 | 18593.9 |
| 25° | 21635.8 | 21612.8 | 21981.7 | 22487.2 | 22967.9 | 23212.7 | 23377.6 | 23429.1 | 22618.5 | 22386.1 | 20305.6 |
| 27.5° | 21644.7 | 21708.6 | 22244.2 | 23092.1 | 23824.6 | 24571.4 | 25362.4 | 25452.9 | 24741.6 | 24557.2 | 22253.1 |
| 30° | 21692.6 | 21721.0 | 22251.3 | 23225.1 | 24750.5 | 25947.8 | 26978.3 | 27487.4 | 26873.6 | 26788.5 | 24397.5 |
| 32.5° | 21084.2 | 21121.5 | 21946.2 | 23457.5 | 25449.3 | 27372.1 | 28739.6 | 29495.2 | 29342.7 | 29234.5 | 26685.6 |
| 35° | 20451.0 | 20482.9 | 21440.7 | 23127.5 | 25969.0 | 28665.1 | 30330.6 | 31815.2 | 32093.7 | 32012.1 | 29238.0 |
| 37.5° | 19457.7 | 19564.1 | 20568.1 | 22733.8 | 26059.5 | 29615.8 | 31848.9 | 34126.4 | 34967.1 | 34722.4 | 31937.6 |
| 40° | 18379.3 | 18457.3 | 19626.2 | 21909.0 | 25958.4 | 30240.2 | 33340.6 | 36684.1 | 37702.2 | 37571.0 | 34617.7 |
| 42.5° | 17017.1 | 17226.4 | 18397.0 | 20855.4 | 25438.7 | 30628.6 | 34720.6 | 39584.1 | 41063.4 | 41239.0 | 37079.6 |
| 45° | 15869.5 | 15864.2 | 16951.4 | 19330.0 | 24496.9 | 30720.8 | 35990.6 | 42516.1 | 44680.0 | 44350.1 | 40334.4 |
| 47.5° | 14519.7 | 14574.7 | 15709.8 | 17811.7 | 23108.0 | 30428.2 | 36980.3 | 45981.9 | 48172.5 | 47993.3 | 43003.9 |
| 50° | 11396.2 | 11791.7 | 13941.4 | 16506.2 | 21229.7 | 29612.3 | 37805.1 | 49357.3 | 51448.5 | 51530.1 | 45430.3 |
| 52.5° | 9824.6 | 9977.2 | 11163.8 | 15191.9 | 19562.4 | 28243.0 | 38709.7 | 53154.9 | 54614.6 | 54407.1 | 48184.9 |
| 55° | 9195.0 | 9276.6 | 9845.9 | 12831.1 | 17950.1 | 26123.4 | 39144.2 | 56622.5 | 57083.7 | 57050.0 | 50451.7 |
| 57.5° | 8739.1 | 8801.2 | 9205.6 | 10708.0 | 16179.9 | 23402.5 | 38777.1 | 58878.7 | 59595.2 | 59375.3 | 52590.8 |
| 60° | 8081.1 | 8130.7 | 8733.8 | 9649.0 | 14358.3 | 20655.0 | 36519.1 | 59902.1 | 61416.9 | 61335.3 | 54481.6 |
| 62.5° | 7586.2 | 7671.3 | 8008.3 | 8866.8 | 12802.7 | 18391.7 | 33828.4 | 59582.8 | 62612.3 | 62685.1 | 55925.4 |
| 65° | 7063.0 | 7139.2 | 7424.8 | 8175.1 | 11392.6 | 16903.6 | 30926.6 | 57982.9 | 62062.5 | 62255.8 | 56159.5 |
| 67.5° | 6417.3 | 6475.9 | 6814.6 | 7463.8 | 9744.8 | 15415.4 | 27654.1 | 55153.8 | 59011.7 | 59634.3 | 53828.9 |
| 70° | 5605.0 | 5626.2 | 6041.3 | 6482.9 | 8091.7 | 13171.7 | 21988.8 | 50522.7 | 54596.9 | 54609.3 | 49428.3 |
| 72.5° | 4460.9 | 4478.6 | 4588.6 | 4923.8 | 6078.5 | 10424.2 | 16162.1 | 42214.6 | 49229.6 | 49139.2 | 43929.7 |
| 75° | 3033.1 | 3189.1 | 3570.5 | 3889.8 | 4384.6 | 7320.1 | 10051.7 | 28441.6 | 41709.0 | 42418.5 | 36084.6 |
| 77.5° | 2396.3 | 2410.5 | 2568.3 | 2861.0 | 3288.5 | 5468.4 | 5633.3 | 15736.5 | 31095.1 | 32781.9 | 28363.6 |
| 80° | 1670.8 | 1695.7 | 1610.5 | 1681.5 | 2293.4 | 3742.6 | 3292.0 | 6848.3 | 12967.7 | 13845.7 | 17029.5 |
| 82.5° | 796.4 | 824.8 | 947.2 | 879.8 | 1140.5 | 1591.0 | 1738.2 | 3538.6 | 5601.4 | 5748.6 | 6630.2 |
| 85° | 525.0 | 525.0 | 526.8 | 498.4 | 665.1 | 693.5 | 789.3 | 1509.4 | 2735.1 | 2827.3 | 2811.3 |
| 87.5° | 168.5 | 186.2 | 180.9 | 211.1 | 255.4 | 230.6 | 241.2 | 473.6 | 938.3 | 929.4 | 776.9 |
| 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° | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 | 15191.9 |
| 2.5° | 15213.2 | 15140.5 | 14970.2 | 14821.2 | 14674.0 | 14562.2 | 14466.5 | 14338.8 | 14278.5 | 14223.5 | 14338.8 |
| 5° | 15257.5 | 15128.1 | 14823.0 | 14517.9 | 14237.7 | 14031.9 | 13906.0 | 13813.7 | 13730.4 | 13730.4 | 13769.4 |
| 7.5° | 15309.0 | 15133.4 | 14697.1 | 14264.3 | 13843.9 | 13609.8 | 13430.6 | 13313.5 | 13246.1 | 13249.7 | 13333.1 |
| 10° | 15342.7 | 15073.1 | 14553.4 | 13969.8 | 13512.2 | 13136.2 | 12960.6 | 12792.1 | 12664.4 | 12588.1 | 12673.2 |
| 12.5° | 15381.7 | 15053.6 | 14360.0 | 13702.0 | 13145.0 | 12719.4 | 12354.0 | 12228.0 | 12103.9 | 12008.1 | 12054.2 |
| 15° | 15622.9 | 15128.1 | 14198.6 | 13361.4 | 12715.8 | 12185.5 | 11706.6 | 11476.0 | 11440.5 | 11374.9 | 11390.8 |
| 17.5° | 16016.7 | 15328.5 | 14094.0 | 12944.6 | 12199.7 | 11573.5 | 10966.9 | 10668.9 | 10598.0 | 10564.3 | 10582.0 |
| 20° | 16603.8 | 15709.8 | 14125.9 | 12652.0 | 11617.9 | 10917.3 | 10133.3 | 9783.8 | 9547.9 | 9562.1 | 9631.3 |
| 22.5° | 17501.3 | 16325.3 | 14299.7 | 12330.9 | 10988.2 | 10069.4 | 9278.3 | 8803.0 | 8565.3 | 8513.9 | 8591.9 |
| 25° | 18930.9 | 17316.8 | 14491.3 | 12024.1 | 10379.8 | 9154.2 | 8278.0 | 7763.6 | 7458.5 | 7439.0 | 7525.9 |
| 27.5° | 20763.2 | 18836.9 | 14908.1 | 11758.0 | 9624.2 | 8054.5 | 7183.6 | 6743.7 | 6419.1 | 6380.1 | 6351.7 |
| 30° | 22638.0 | 20525.5 | 15662.0 | 11353.6 | 8742.7 | 6919.3 | 6161.9 | 5817.8 | 5454.2 | 5307.0 | 5338.9 |
| 32.5° | 24624.6 | 22098.8 | 16545.3 | 11069.8 | 7756.5 | 5920.7 | 5262.6 | 4934.5 | 4601.0 | 4388.2 | 4338.5 |
| 35° | 26625.3 | 23663.2 | 17288.5 | 10645.9 | 6821.7 | 5127.8 | 4498.2 | 4159.4 | 3868.5 | 3694.7 | 3682.2 |
| 37.5° | 28966.6 | 25291.5 | 17884.4 | 10195.3 | 5851.5 | 4507.0 | 3749.6 | 3554.5 | 3414.4 | 3261.9 | 3277.8 |
| 40° | 31311.5 | 27189.4 | 18361.6 | 9450.4 | 5046.2 | 3840.1 | 3190.9 | 3229.9 | 3260.1 | 3132.4 | 3121.7 |
| 42.5° | 33259.0 | 28783.9 | 18579.7 | 8485.5 | 4333.2 | 3260.1 | 2944.4 | 3121.7 | 3253.0 | 3169.6 | 3159.0 |
| 45° | 35236.7 | 30126.6 | 18494.6 | 7288.2 | 3740.8 | 2983.4 | 2924.9 | 3105.8 | 3274.3 | 3254.8 | 3245.9 |
| 47.5° | 37386.5 | 31886.2 | 18347.4 | 5924.2 | 3316.9 | 2956.8 | 2967.4 | 3052.6 | 3265.4 | 3300.9 | 3286.7 |
| 50° | 40015.1 | 33505.6 | 17476.5 | 4613.4 | 3111.1 | 2999.4 | 3063.2 | 3018.9 | 3199.8 | 3272.5 | 3284.9 |
| 52.5° | 42631.4 | 34752.5 | 16311.1 | 3998.0 | 3029.5 | 3040.2 | 3196.2 | 3045.5 | 3125.3 | 3189.1 | 3247.7 |
| 55° | 44649.9 | 36022.5 | 14425.7 | 3627.3 | 3002.9 | 3059.7 | 3233.5 | 3102.2 | 3100.5 | 3100.5 | 3120.0 |
| 57.5° | 46716.3 | 37723.5 | 12540.2 | 3387.8 | 2956.8 | 3081.0 | 3189.1 | 3112.9 | 3088.0 | 3052.6 | 3029.5 |
| 60° | 48154.7 | 38353.2 | 10117.3 | 3229.9 | 2908.9 | 3050.8 | 3065.0 | 3054.3 | 2978.1 | 2944.4 | 2917.8 |
| 62.5° | 49431.8 | 38695.5 | 7877.1 | 3049.0 | 2843.3 | 2979.9 | 2905.4 | 2882.3 | 2838.0 | 2756.4 | 2770.6 |
| 65° | 49089.5 | 37961.2 | 6002.3 | 2845.0 | 2797.2 | 2894.7 | 2765.2 | 2710.2 | 2713.8 | 2628.7 | 2657.0 |
| 67.5° | 46886.5 | 34667.4 | 4310.1 | 2532.9 | 2671.2 | 2726.2 | 2605.6 | 2564.8 | 2504.5 | 2461.9 | 2500.9 |
| 70° | 42436.3 | 30731.5 | 2907.1 | 2101.9 | 2383.9 | 2502.7 | 2422.9 | 2352.0 | 2257.9 | 2229.6 | 2272.1 |
| 72.5° | 35717.4 | 25653.3 | 2006.1 | 1690.4 | 2057.5 | 2211.8 | 2181.7 | 2109.0 | 2041.6 | 2110.7 | 2194.1 |
| 75° | 29342.7 | 18978.8 | 1637.1 | 1385.3 | 1582.2 | 1842.9 | 1931.6 | 1952.9 | 2155.1 | 2829.1 | 2898.3 |
| 77.5° | 21121.5 | 11765.1 | 1472.2 | 1126.3 | 1262.9 | 1474.0 | 1651.3 | 1724.1 | 2632.2 | 2520.5 | 2515.1 |
| 80° | 12314.9 | 6857.2 | 1122.8 | 888.6 | 1021.7 | 1080.2 | 1291.3 | 2023.8 | 2270.4 | 1947.5 | 1899.7 |
| 82.5° | 5619.1 | 3026.0 | 782.2 | 711.3 | 709.5 | 714.8 | 879.8 | 1947.5 | 1741.8 | 1534.3 | 1477.5 |
| 85° | 2066.4 | 1064.2 | 475.4 | 411.5 | 471.8 | 409.7 | 576.5 | 1427.8 | 1009.2 | 993.3 | 828.3 |
| 87.5° | 509.1 | 218.2 | 161.4 | 134.8 | 110.0 | 104.6 | 175.6 | 470.0 | 246.5 | 225.3 | 216.4 |
| 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)