

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: P649612

Luminaire Tested: **GLAN-SA8D-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50053.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

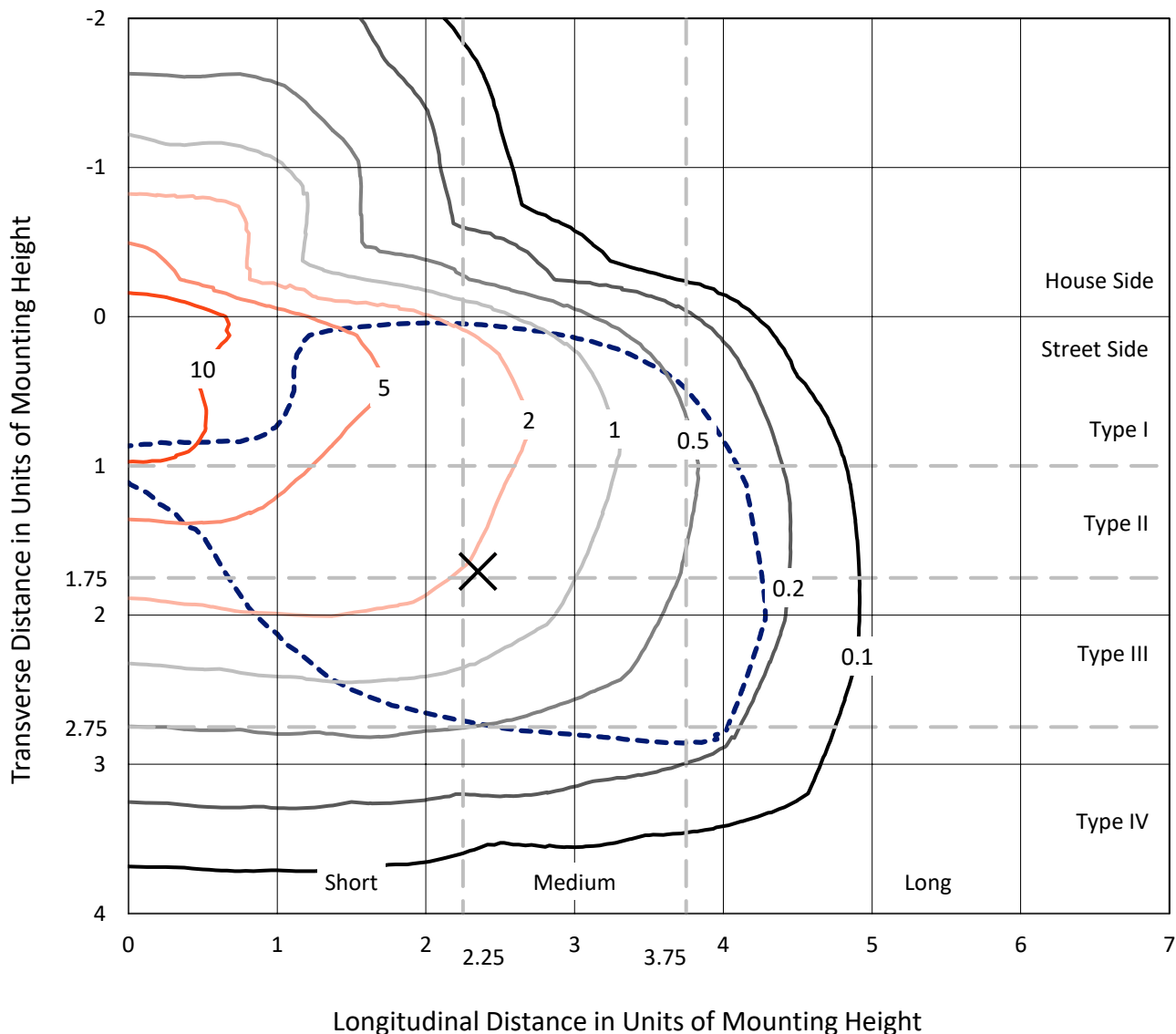
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

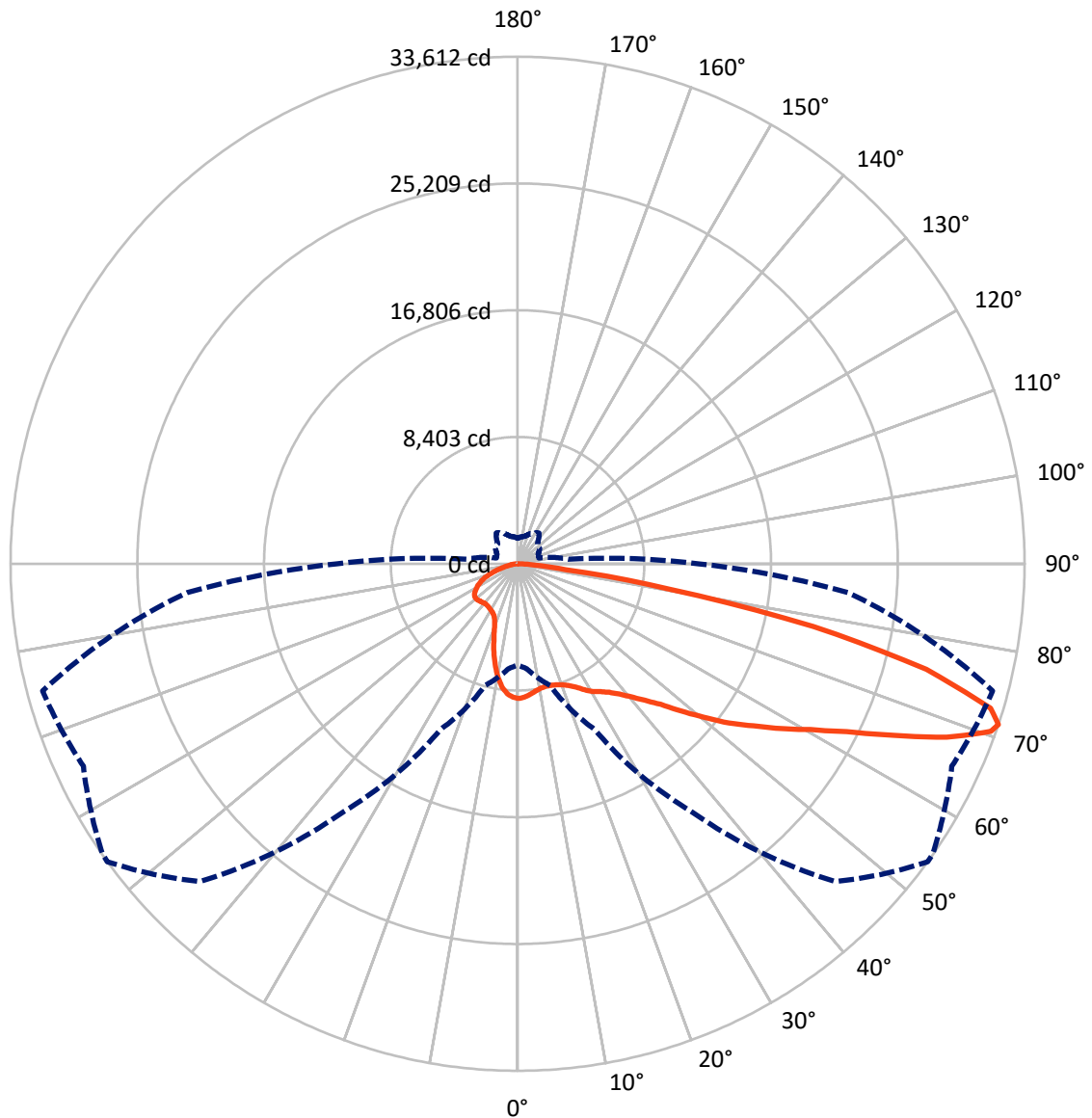
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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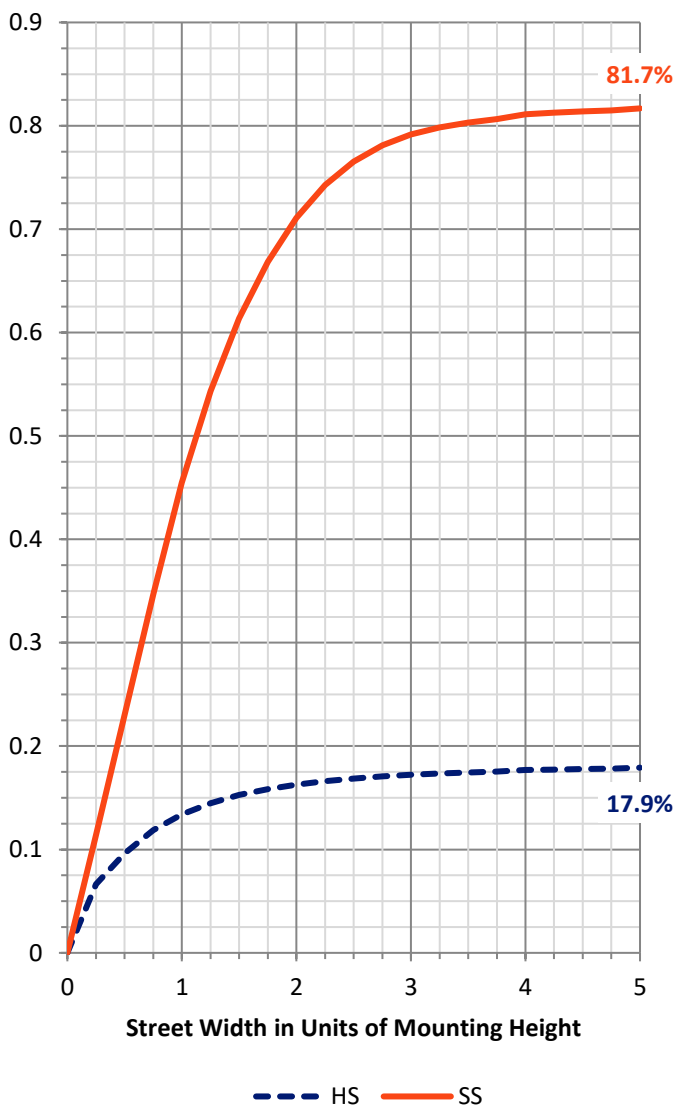
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9036.8 | 0.0 | 9036.8 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 41016.5 | 0.0 | 41016.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 50053.3 | 0.0 | 50053.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 795.8 | 1.6 |
| 10°-20° | 2101.4 | 4.2 |
| 20°-30° | 3498.9 | 7.0 |
| 30°-40° | 5173.7 | 10.3 |
| 40°-50° | 7287.3 | 14.6 |
| 50°-60° | 9758.0 | 19.5 |
| 60°-70° | 12299.2 | 24.6 |
| 70°-80° | 8400.3 | 16.8 |
| 80°-90° | 738.7 | 1.5 |
| 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° | 50053.3 | 100.0 |
| 0°-180° | 50053.3 | 100.0 |

Coefficient of Utilization

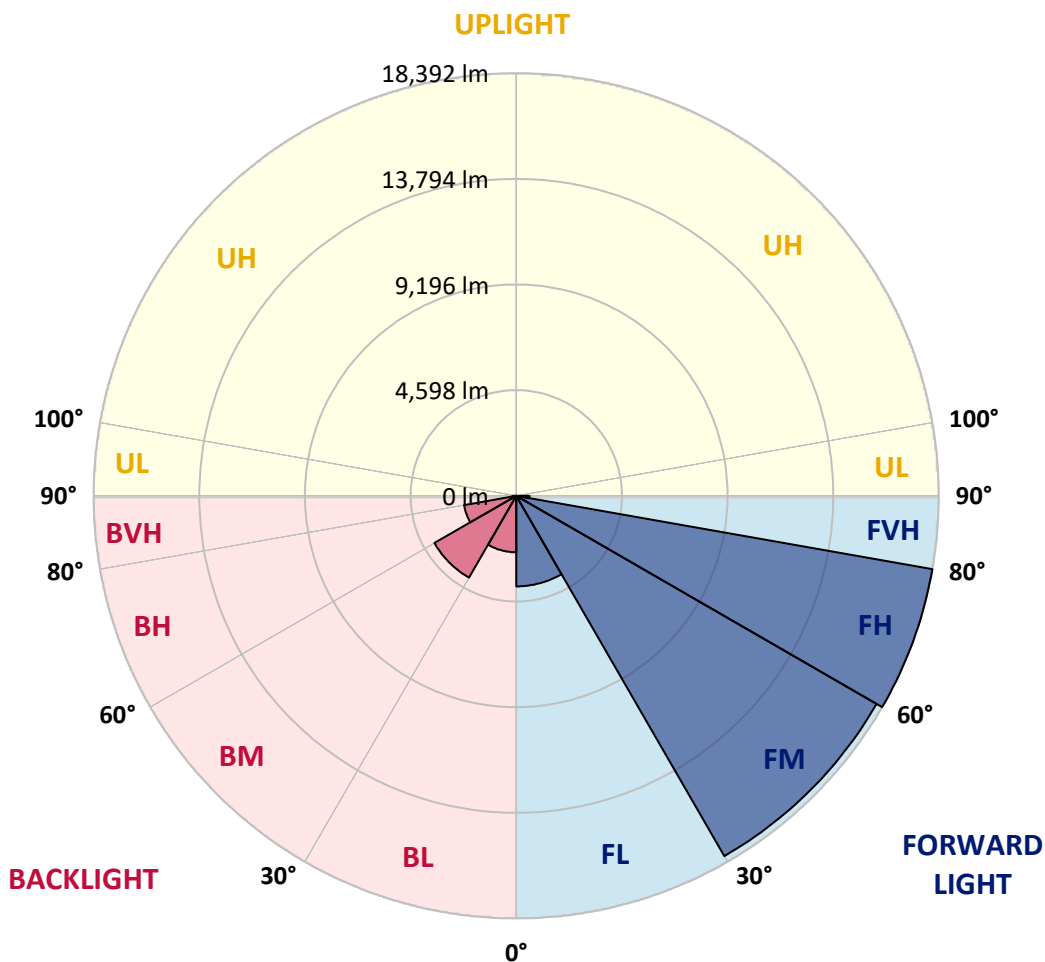


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3940.0 | 7.9 | | | |
| FM (30°-60°) | 18107.5 | 36.2 | | | |
| FH (60°-80°) | 18391.5 | 36.7 | | | G5 |
| FVH (80°-90°) | 577.4 | 1.2 | | | G4/750 |
| BL (0°-30°) | 2456.0 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 4111.5 | 8.2 | B3/5000 | | |
| BH (60°-80°) | 2308.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 161.3 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 |
| 2.5° | 8627.4 | 8668.0 | 8678.8 | 8705.9 | 8762.6 | 8808.6 | 8854.6 | 8849.2 | 8914.0 | 8941.1 | 8965.4 |
| 5° | 8243.5 | 8254.3 | 8294.9 | 8349.0 | 8449.0 | 8576.0 | 8700.5 | 8703.1 | 8862.6 | 8989.7 | 9051.9 |
| 7.5° | 7962.3 | 7997.5 | 8024.5 | 8081.3 | 8186.7 | 8324.6 | 8522.0 | 8538.2 | 8822.1 | 9073.6 | 9206.0 |
| 10° | 7778.5 | 7819.0 | 7848.8 | 7919.1 | 8024.5 | 8178.6 | 8392.2 | 8421.9 | 8792.4 | 9206.0 | 9438.5 |
| 12.5° | 7610.8 | 7651.4 | 7678.4 | 7770.3 | 7908.2 | 8097.6 | 8338.2 | 8373.3 | 8803.2 | 9360.1 | 9692.7 |
| 15° | 7713.6 | 7746.1 | 7735.3 | 7762.3 | 7854.2 | 8070.5 | 8359.8 | 8394.9 | 8843.8 | 9508.8 | 9944.1 |
| 17.5° | 8170.5 | 8197.5 | 8108.4 | 8005.6 | 7962.3 | 8121.8 | 8427.4 | 8465.2 | 8924.9 | 9662.9 | 10201.0 |
| 20° | 8843.8 | 8916.7 | 8722.1 | 8492.3 | 8284.1 | 8305.7 | 8568.0 | 8608.5 | 9038.4 | 9817.0 | 10463.2 |
| 22.5° | 9719.7 | 9773.8 | 9535.8 | 9157.3 | 8773.4 | 8576.0 | 8778.8 | 8803.2 | 9208.7 | 10017.2 | 10749.8 |
| 25° | 10749.8 | 10782.3 | 10452.4 | 9965.8 | 9411.5 | 9038.4 | 9068.2 | 9111.4 | 9489.9 | 10244.2 | 11004.0 |
| 27.5° | 11750.2 | 11852.9 | 11471.7 | 10876.9 | 10146.9 | 9525.0 | 9465.6 | 9492.6 | 9795.4 | 10371.3 | 11179.7 |
| 30° | 12937.1 | 12929.0 | 12526.1 | 11836.7 | 10901.2 | 10055.0 | 9841.4 | 9836.0 | 9960.3 | 10433.5 | 11306.8 |
| 32.5° | 13883.4 | 13994.2 | 13599.5 | 12847.9 | 11763.7 | 10603.9 | 10100.9 | 10090.1 | 10087.4 | 10541.6 | 11496.0 |
| 35° | 14959.4 | 14975.7 | 14613.4 | 13856.4 | 12696.5 | 11293.3 | 10463.2 | 10409.1 | 10347.0 | 10774.2 | 11752.9 |
| 37.5° | 15922.0 | 15997.6 | 15665.1 | 14816.2 | 13613.0 | 12009.7 | 10960.7 | 10925.6 | 10736.3 | 11177.0 | 12163.8 |
| 40° | 16673.6 | 16730.4 | 16530.3 | 15721.9 | 14516.0 | 12783.0 | 11593.3 | 11528.5 | 11298.7 | 11836.7 | 12712.7 |
| 42.5° | 16919.6 | 17035.9 | 17114.3 | 16716.8 | 15554.2 | 13699.5 | 12372.0 | 12290.9 | 12115.2 | 12837.1 | 13345.4 |
| 45° | 16938.6 | 17122.4 | 17536.1 | 17554.9 | 16597.9 | 14797.2 | 13280.5 | 13223.7 | 13210.1 | 14118.6 | 14234.9 |
| 47.5° | 16795.3 | 16981.8 | 17676.6 | 18052.5 | 17527.9 | 15905.7 | 14591.8 | 14502.5 | 14510.6 | 15703.0 | 15232.5 |
| 50° | 16449.2 | 16670.9 | 17514.5 | 18371.5 | 18255.3 | 17057.5 | 15976.0 | 15946.3 | 16113.9 | 17511.7 | 16268.0 |
| 52.5° | 15797.6 | 16065.3 | 17346.8 | 18571.6 | 18796.0 | 18049.7 | 17549.5 | 17465.8 | 17890.2 | 19474.6 | 17400.8 |
| 55° | 13994.2 | 14397.1 | 16733.0 | 18682.4 | 19309.6 | 18998.7 | 18966.3 | 19117.7 | 19680.1 | 21615.9 | 18647.2 |
| 57.5° | 13053.3 | 13356.2 | 15400.1 | 18701.3 | 19958.5 | 20101.8 | 20620.9 | 20658.8 | 21642.9 | 23889.7 | 20055.8 |
| 60° | 12539.7 | 12807.3 | 14670.1 | 18577.0 | 20864.3 | 21467.2 | 22313.5 | 22448.6 | 23559.8 | 26352.7 | 21515.9 |
| 62.5° | 12090.9 | 12320.7 | 14232.1 | 18147.0 | 21886.3 | 23492.3 | 24506.1 | 24571.0 | 25736.3 | 29072.6 | 22956.9 |
| 65° | 11033.7 | 11295.9 | 13350.8 | 17717.2 | 22767.7 | 26022.9 | 27415.3 | 27339.6 | 28053.3 | 31419.4 | 23860.0 |
| 67.5° | 9608.9 | 9941.4 | 11704.2 | 16232.8 | 23203.0 | 28788.7 | 30692.1 | 30597.5 | 30340.7 | 32957.8 | 24119.5 |
| 70° | 7789.3 | 7967.7 | 9598.1 | 13667.1 | 21464.5 | 30240.6 | 33279.5 | 33179.5 | 31757.4 | 33160.6 | 22892.0 |
| 71° | 6702.4 | 6980.9 | 8357.0 | 12139.5 | 20018.0 | 29797.2 | 33612.1 | 33585.1 | 31760.1 | 32600.9 | 21967.4 |
| 72.5° | 5231.6 | 5401.9 | 6618.6 | 9406.1 | 17014.3 | 27277.4 | 32790.2 | 32893.0 | 31070.7 | 31046.3 | 20061.3 |
| 75° | 3309.3 | 3385.0 | 4152.9 | 5537.1 | 9335.8 | 19317.8 | 27991.2 | 28269.7 | 27588.3 | 25411.9 | 14918.9 |
| 77.5° | 1922.3 | 2019.7 | 2487.4 | 3263.3 | 4033.9 | 10484.8 | 20028.8 | 20331.6 | 19169.1 | 13991.5 | 6107.6 |
| 80° | 1119.3 | 1227.4 | 1638.4 | 1895.3 | 1852.0 | 3890.6 | 10198.3 | 10714.7 | 8300.3 | 3533.7 | 1714.1 |
| 82.5° | 621.9 | 694.8 | 1151.8 | 1154.5 | 986.8 | 1270.7 | 3209.3 | 3358.0 | 2368.4 | 1424.8 | 700.2 |
| 85° | 451.5 | 511.0 | 743.5 | 673.2 | 473.2 | 546.1 | 1116.6 | 1170.7 | 957.1 | 600.2 | 227.1 |
| 87.5° | 159.5 | 227.1 | 408.3 | 324.5 | 129.7 | 113.5 | 321.7 | 262.2 | 243.4 | 167.6 | 51.4 |
| 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° | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 | 8930.3 |
| 2.5° | 8978.9 | 8984.3 | 8957.3 | 8908.6 | 8860.0 | 8797.8 | 8727.5 | 8673.4 | 8649.1 | 8646.4 | 8643.7 |
| 5° | 9076.2 | 9089.8 | 8987.0 | 8835.6 | 8668.0 | 8462.5 | 8286.8 | 8086.7 | 8035.3 | 7954.2 | 7978.5 |
| 7.5° | 9233.1 | 9224.9 | 9022.2 | 8700.5 | 8308.4 | 7873.1 | 7505.4 | 7291.8 | 7070.1 | 7007.9 | 7010.7 |
| 10° | 9457.5 | 9406.1 | 9022.2 | 8424.7 | 7770.3 | 7124.2 | 6610.5 | 6286.1 | 6110.3 | 5964.3 | 5910.2 |
| 12.5° | 9695.4 | 9565.6 | 8935.7 | 8038.0 | 7078.2 | 6286.1 | 5734.5 | 5296.5 | 5182.9 | 5064.0 | 5066.7 |
| 15° | 9922.5 | 9706.2 | 8765.3 | 7494.6 | 6332.0 | 5391.1 | 4855.8 | 4593.5 | 4558.4 | 4571.9 | 4569.2 |
| 17.5° | 10127.9 | 9806.2 | 8505.7 | 6889.0 | 5461.4 | 4623.3 | 4339.4 | 4358.3 | 4452.9 | 4520.6 | 4528.6 |
| 20° | 10336.1 | 9865.7 | 8119.2 | 6077.9 | 4639.5 | 4158.3 | 4169.1 | 4317.8 | 4461.1 | 4553.0 | 4566.5 |
| 22.5° | 10533.5 | 9892.7 | 7664.9 | 5293.8 | 4044.7 | 3960.9 | 4120.4 | 4280.0 | 4420.5 | 4509.8 | 4523.2 |
| 25° | 10663.3 | 9830.6 | 7021.5 | 4474.6 | 3752.7 | 3890.6 | 4058.2 | 4193.4 | 4312.4 | 4404.3 | 4425.9 |
| 27.5° | 10698.4 | 9630.5 | 6223.8 | 3812.2 | 3617.5 | 3823.0 | 3977.1 | 4077.2 | 4169.1 | 4255.6 | 4271.8 |
| 30° | 10679.5 | 9335.8 | 5347.9 | 3422.9 | 3539.1 | 3744.6 | 3863.6 | 3936.5 | 4047.4 | 4115.0 | 4128.5 |
| 32.5° | 10649.8 | 8992.4 | 4434.1 | 3214.7 | 3474.2 | 3671.6 | 3741.9 | 3806.8 | 3804.0 | 3777.0 | 3796.0 |
| 35° | 10660.6 | 8581.4 | 3693.3 | 3090.3 | 3417.5 | 3617.5 | 3677.0 | 3595.9 | 3363.4 | 3352.6 | 3341.8 |
| 37.5° | 10717.4 | 8175.9 | 3155.2 | 3003.8 | 3387.7 | 3609.4 | 3641.9 | 3268.7 | 3063.3 | 2968.7 | 2944.3 |
| 40° | 10863.3 | 7702.8 | 2801.0 | 2938.9 | 3385.0 | 3671.6 | 3482.3 | 3103.8 | 2709.1 | 2525.3 | 2511.7 |
| 42.5° | 11058.1 | 7237.7 | 2584.7 | 2898.4 | 3417.5 | 3766.2 | 3417.5 | 2871.3 | 2441.4 | 2333.3 | 2317.1 |
| 45° | 11347.3 | 6705.1 | 2465.7 | 2879.4 | 3466.1 | 3801.4 | 3395.8 | 2701.0 | 2333.3 | 2246.7 | 2246.7 |
| 47.5° | 11674.5 | 6196.8 | 2400.8 | 2865.9 | 3528.3 | 3777.0 | 3203.9 | 2646.9 | 2281.9 | 2292.7 | 2344.1 |
| 50° | 11998.9 | 5756.1 | 2352.2 | 2836.2 | 3582.4 | 3763.5 | 3125.4 | 2644.2 | 2295.4 | 2433.3 | 2525.3 |
| 52.5° | 12374.8 | 5445.2 | 2292.7 | 2787.5 | 3582.4 | 3677.0 | 3101.1 | 2698.3 | 2333.3 | 2373.8 | 2414.4 |
| 55° | 12829.0 | 5347.9 | 2217.0 | 2682.0 | 3517.5 | 3460.7 | 3087.6 | 2776.7 | 2360.3 | 2265.7 | 2281.9 |
| 57.5° | 13429.2 | 5504.7 | 2144.0 | 2549.6 | 3368.8 | 3236.3 | 3082.2 | 2798.3 | 2298.1 | 2219.7 | 2203.5 |
| 60° | 14126.7 | 5815.6 | 2122.4 | 2414.4 | 3166.0 | 3044.3 | 3049.8 | 2736.1 | 2211.6 | 2130.5 | 2144.0 |
| 62.5° | 14616.1 | 6002.2 | 2108.9 | 2311.7 | 2944.3 | 2833.4 | 2971.3 | 2660.4 | 2173.8 | 2103.5 | 2117.0 |
| 65° | 14616.1 | 5775.0 | 1984.5 | 2154.8 | 2657.7 | 2579.3 | 2876.7 | 2565.8 | 2125.1 | 2043.9 | 2030.5 |
| 67.5° | 14061.8 | 5112.7 | 1795.3 | 1919.6 | 2341.4 | 2290.0 | 2744.3 | 2452.2 | 2052.1 | 1989.9 | 1957.5 |
| 70° | 12618.0 | 3877.1 | 1557.3 | 1643.8 | 1941.2 | 1987.2 | 2573.9 | 2298.1 | 1930.4 | 1854.7 | 1806.1 |
| 71° | 11982.7 | 3376.9 | 1457.3 | 1503.3 | 1787.1 | 1854.7 | 2492.8 | 2233.3 | 1876.4 | 1768.2 | 1681.6 |
| 72.5° | 10758.0 | 2844.2 | 1305.9 | 1324.8 | 1527.6 | 1649.2 | 2322.5 | 2108.9 | 1773.6 | 1619.5 | 1522.2 |
| 75° | 8173.2 | 2076.4 | 1051.7 | 1040.9 | 1130.1 | 1308.5 | 1965.6 | 1879.0 | 1554.6 | 1346.4 | 1289.7 |
| 77.5° | 3531.0 | 1130.1 | 786.8 | 794.9 | 767.8 | 992.2 | 1546.5 | 1614.1 | 1332.9 | 1095.0 | 1043.6 |
| 80° | 1070.7 | 651.6 | 538.0 | 548.9 | 513.7 | 665.1 | 1089.5 | 1265.3 | 1070.7 | 851.7 | 781.4 |
| 82.5° | 548.9 | 389.3 | 367.7 | 362.3 | 327.1 | 375.8 | 659.7 | 865.2 | 765.1 | 532.6 | 470.4 |
| 85° | 238.0 | 208.2 | 181.1 | 175.7 | 154.1 | 135.1 | 235.2 | 432.6 | 405.5 | 297.4 | 283.9 |
| 87.5° | 59.5 | 54.1 | 35.2 | 32.4 | 18.9 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)