

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: P456880

Luminaire Tested: **GLAN-SA8A-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29906 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

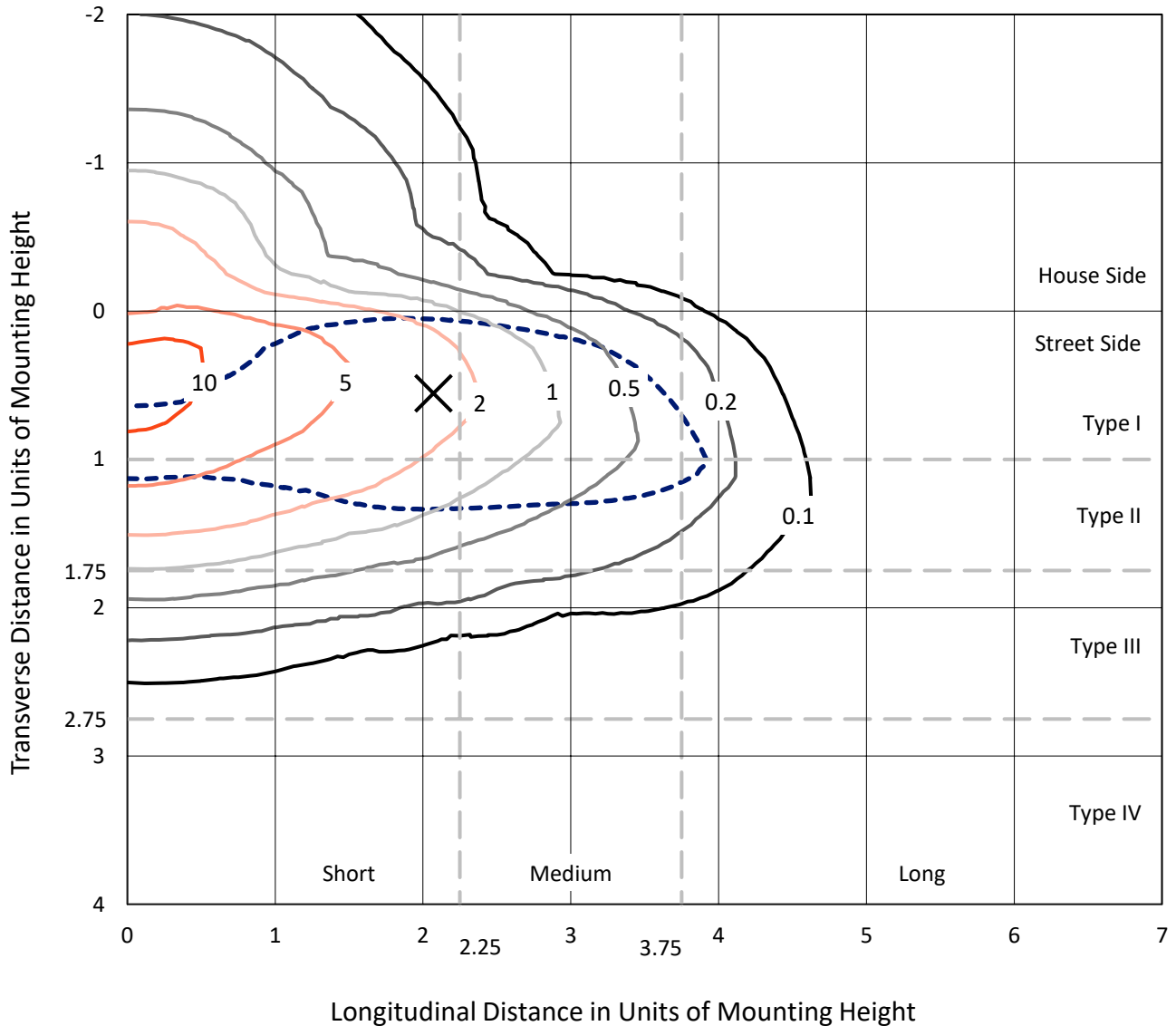
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

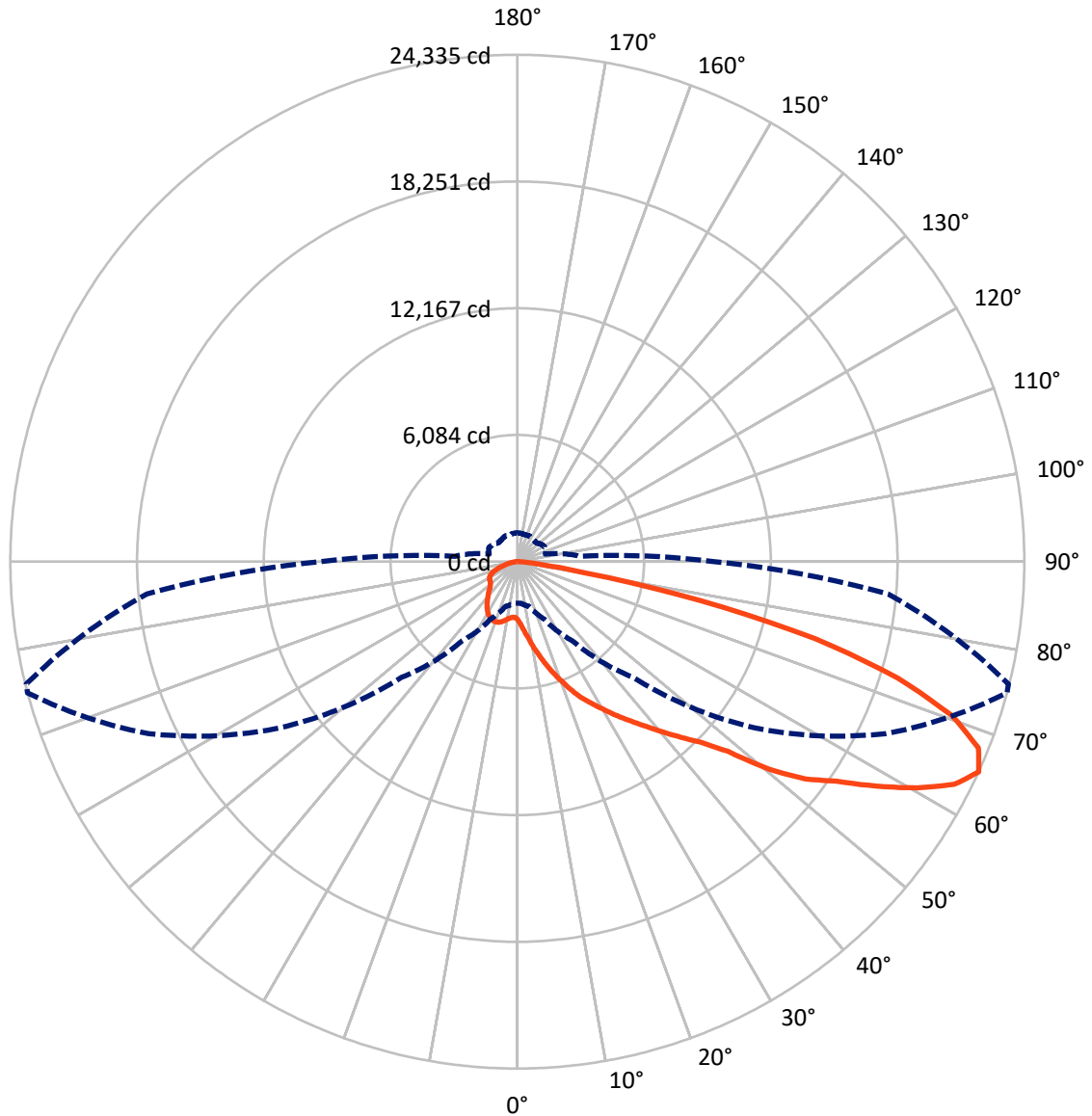
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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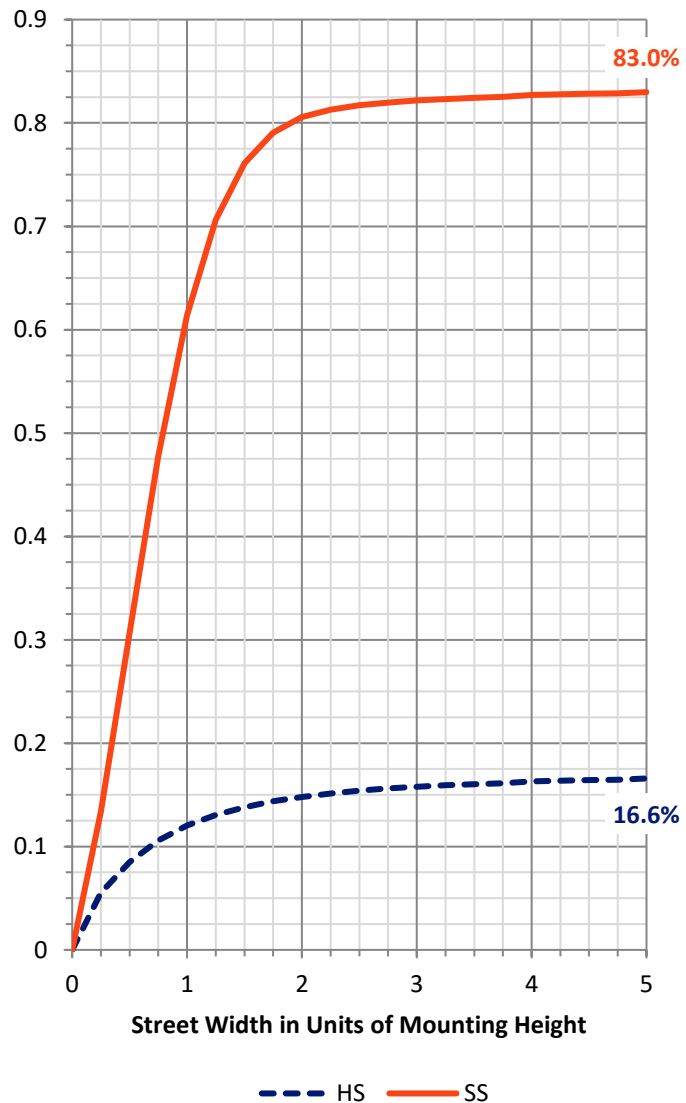
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5027.6 | 0.0 | 5027.6 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 24878.4 | 0.0 | 24878.4 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 29906.0 | 0.0 | 29906.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 337.6 | 1.1 |
| 10°-20° | 1322.3 | 4.4 |
| 20°-30° | 2554.3 | 8.5 |
| 30°-40° | 4148.9 | 13.9 |
| 40°-50° | 5707.2 | 19.1 |
| 50°-60° | 6738.3 | 22.5 |
| 60°-70° | 5903.8 | 19.7 |
| 70°-80° | 2818.5 | 9.4 |
| 80°-90° | 375.0 | 1.3 |
| 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° | 29906.0 | 100.0 |
| 0°-180° | 29906.0 | 100.0 |



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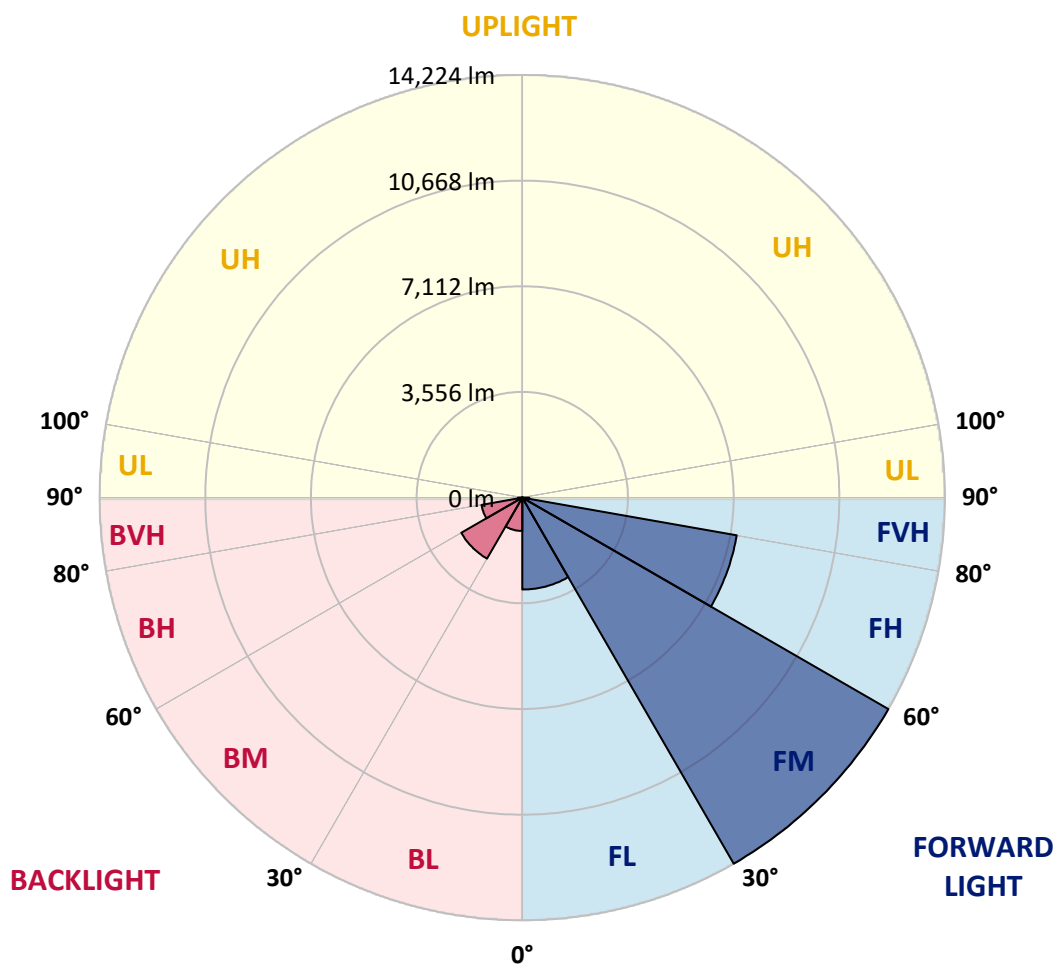
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3091.8 | 10.3 | | | |
| FM | (30°-60°) | 14223.9 | 47.6 | | | |
| FH | (60°-80°) | 7328.3 | 24.5 | | | G3/7500 |
| FVH | (80°-90°) | 234.4 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1122.4 | 3.8 | B3/2500 | | |
| BM | (30°-60°) | 2370.5 | 7.9 | B2/2500 | | |
| BH | (60°-80°) | 1394.1 | 4.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 140.7 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 |
| 2.5° | 3691.9 | 3667.6 | 3641.6 | 3570.2 | 3494.0 | 3408.0 | 3284.7 | 3166.3 | 3009.0 | 3004.1 | 2887.3 |
| 5° | 4715.4 | 4699.2 | 4584.0 | 4517.5 | 4340.7 | 4105.5 | 3906.0 | 3596.2 | 3309.1 | 3275.0 | 3047.9 |
| 7.5° | 5656.2 | 5593.0 | 5549.2 | 5429.1 | 5254.0 | 4952.2 | 4566.2 | 4147.7 | 3667.6 | 3622.1 | 3245.8 |
| 10° | 6365.1 | 6358.6 | 6335.9 | 6232.1 | 6100.7 | 5800.6 | 5372.4 | 4772.2 | 4121.7 | 4032.5 | 3485.9 |
| 12.5° | 6895.5 | 6900.4 | 6897.1 | 6895.5 | 6801.4 | 6546.8 | 6082.8 | 5450.2 | 4580.8 | 4517.5 | 3763.3 |
| 15° | 7244.3 | 7292.9 | 7312.4 | 7393.5 | 7401.6 | 7231.3 | 6832.3 | 6105.6 | 5098.2 | 5004.2 | 4061.7 |
| 17.5° | 7474.6 | 7498.9 | 7589.8 | 7727.7 | 7839.6 | 7808.8 | 7453.5 | 6712.2 | 5627.0 | 5469.7 | 4371.5 |
| 20° | 7695.2 | 7737.4 | 7807.1 | 7995.3 | 8193.2 | 8284.0 | 8034.2 | 7333.5 | 6151.0 | 6050.4 | 4713.8 |
| 22.5° | 8154.3 | 8214.3 | 8238.6 | 8334.3 | 8503.0 | 8663.6 | 8550.1 | 7928.8 | 6725.2 | 6588.9 | 5077.2 |
| 25° | 8931.2 | 8994.5 | 8926.4 | 8903.7 | 8958.8 | 9038.3 | 9014.0 | 8490.0 | 7267.0 | 7072.3 | 5421.0 |
| 27.5° | 9943.4 | 9951.5 | 9818.5 | 9692.0 | 9555.7 | 9515.2 | 9440.6 | 8988.0 | 7737.4 | 7575.2 | 5766.5 |
| 30° | 11030.2 | 10991.3 | 10770.7 | 10542.0 | 10311.6 | 10084.6 | 9870.4 | 9468.2 | 8261.3 | 8074.8 | 6105.6 |
| 32.5° | 12039.2 | 12018.1 | 11773.2 | 11417.9 | 11028.6 | 10814.5 | 10381.4 | 9953.2 | 8822.6 | 8642.5 | 6454.3 |
| 35° | 12795.1 | 12825.9 | 12556.6 | 12168.9 | 11744.0 | 11554.2 | 11007.5 | 10462.5 | 9403.3 | 9207.0 | 6833.9 |
| 37.5° | 13332.0 | 13315.8 | 13077.3 | 12741.5 | 12368.5 | 12203.0 | 11739.1 | 11018.9 | 10027.8 | 9839.6 | 7249.1 |
| 40° | 13523.4 | 13513.7 | 13336.8 | 13091.9 | 12855.1 | 12796.7 | 12504.7 | 11619.1 | 10743.1 | 10522.5 | 7748.7 |
| 42.5° | 13401.7 | 13422.8 | 13306.0 | 13239.5 | 13195.7 | 13237.9 | 13265.5 | 12405.8 | 11523.3 | 11320.6 | 8290.5 |
| 45° | 13028.7 | 13017.3 | 13001.1 | 13109.8 | 13356.3 | 13633.7 | 14018.1 | 13148.7 | 12371.7 | 12209.5 | 9017.2 |
| 47.5° | 12362.0 | 12443.1 | 12483.6 | 12783.7 | 13322.2 | 13979.2 | 14884.3 | 14144.6 | 13602.9 | 13461.7 | 10125.1 |
| 50° | 11429.3 | 11494.2 | 11734.2 | 12267.9 | 13070.8 | 14109.0 | 15731.1 | 15773.2 | 15656.4 | 15392.0 | 11328.7 |
| 52.5° | 9972.6 | 10073.2 | 10567.9 | 11546.1 | 12555.0 | 14055.4 | 16243.6 | 17169.9 | 17324.0 | 17126.1 | 12514.4 |
| 55° | 8342.4 | 8483.5 | 9005.9 | 10288.9 | 11844.5 | 13763.5 | 16597.3 | 17979.3 | 18594.1 | 18410.8 | 13656.4 |
| 57.5° | 6746.3 | 6895.5 | 7432.4 | 8675.0 | 10605.2 | 13117.9 | 16829.2 | 18881.2 | 20323.2 | 20084.8 | 15077.4 |
| 60° | 5056.1 | 5211.8 | 5672.5 | 6952.3 | 8840.4 | 11855.9 | 16671.9 | 19663.0 | 22050.7 | 21948.5 | 16499.9 |
| 62.5° | 3262.0 | 3434.0 | 3834.6 | 4893.9 | 6794.9 | 10131.6 | 15830.0 | 20094.5 | 23546.3 | 23423.0 | 17538.1 |
| 65° | 1987.1 | 2006.5 | 2227.1 | 3038.2 | 4650.5 | 7844.4 | 13904.6 | 19521.9 | 24334.6 | 24297.3 | 17854.4 |
| 67.5° | 1284.7 | 1315.5 | 1416.1 | 1820.0 | 2788.4 | 5448.6 | 11117.8 | 17632.1 | 23874.0 | 23861.0 | 17200.7 |
| 70° | 1085.2 | 1094.9 | 1140.3 | 1227.9 | 1620.5 | 3304.2 | 7807.1 | 14619.9 | 22123.7 | 22123.7 | 15628.9 |
| 72.5° | 970.0 | 983.0 | 999.2 | 1026.8 | 1156.6 | 1871.9 | 4658.7 | 11380.6 | 19101.8 | 19228.3 | 13302.8 |
| 75° | 880.8 | 877.6 | 887.3 | 892.2 | 986.2 | 1223.1 | 2408.8 | 8417.0 | 14777.3 | 14524.2 | 9633.6 |
| 77.5° | 754.3 | 759.1 | 754.3 | 775.4 | 871.1 | 931.1 | 1223.1 | 5648.1 | 8955.6 | 8627.9 | 4835.5 |
| 80° | 619.6 | 627.7 | 635.9 | 648.8 | 744.5 | 707.2 | 734.8 | 2574.3 | 3312.3 | 3242.6 | 1493.9 |
| 82.5° | 465.5 | 476.9 | 489.9 | 520.7 | 585.6 | 467.2 | 463.9 | 1099.8 | 1195.5 | 1094.9 | 549.9 |
| 85° | 188.2 | 222.2 | 335.8 | 366.6 | 368.2 | 256.3 | 285.5 | 459.1 | 488.2 | 476.9 | 215.7 |
| 87.5° | 43.8 | 51.9 | 108.7 | 163.8 | 150.9 | 95.7 | 105.4 | 149.2 | 170.3 | 157.3 | 73.0 |
| 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° | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 | 2778.6 |
| 2.5° | 2833.8 | 2777.0 | 2679.7 | 2605.1 | 2551.6 | 2504.5 | 2475.3 | 2457.5 | 2451.0 | 2449.4 | 2451.0 |
| 5° | 2929.5 | 2828.9 | 2674.8 | 2577.5 | 2524.0 | 2493.2 | 2475.3 | 2473.7 | 2475.3 | 2476.9 | 2472.1 |
| 7.5° | 3060.9 | 2916.5 | 2715.4 | 2624.5 | 2584.0 | 2561.3 | 2553.2 | 2549.9 | 2551.6 | 2549.9 | 2549.9 |
| 10° | 3236.1 | 3038.2 | 2794.9 | 2700.8 | 2666.7 | 2640.8 | 2627.8 | 2619.7 | 2613.2 | 2606.7 | 2603.5 |
| 12.5° | 3429.1 | 3172.8 | 2880.8 | 2790.0 | 2741.3 | 2700.8 | 2671.6 | 2650.5 | 2635.9 | 2621.3 | 2618.1 |
| 15° | 3644.8 | 3315.6 | 2976.5 | 2850.0 | 2780.3 | 2720.2 | 2670.0 | 2635.9 | 2609.9 | 2588.9 | 2587.2 |
| 17.5° | 3850.8 | 3450.2 | 3041.4 | 2877.6 | 2775.4 | 2691.1 | 2624.5 | 2577.5 | 2545.1 | 2517.5 | 2514.2 |
| 20° | 4071.5 | 3578.3 | 3070.6 | 2859.7 | 2726.7 | 2624.5 | 2537.0 | 2480.2 | 2442.9 | 2412.1 | 2407.2 |
| 22.5° | 4293.7 | 3687.0 | 3067.4 | 2803.0 | 2642.4 | 2522.4 | 2429.9 | 2369.9 | 2326.1 | 2295.3 | 2283.9 |
| 25° | 4506.2 | 3774.6 | 3026.8 | 2712.1 | 2525.6 | 2400.7 | 2306.6 | 2251.5 | 2212.5 | 2175.2 | 2175.2 |
| 27.5° | 4697.6 | 3826.5 | 2950.6 | 2601.8 | 2405.6 | 2274.2 | 2199.6 | 2149.3 | 2113.6 | 2089.3 | 2074.7 |
| 30° | 4885.7 | 3850.8 | 2846.8 | 2462.3 | 2279.0 | 2167.1 | 2107.1 | 2077.9 | 2045.5 | 2017.9 | 2014.6 |
| 32.5° | 5054.4 | 3846.0 | 2717.0 | 2326.1 | 2159.0 | 2079.5 | 2055.2 | 2032.5 | 1998.4 | 1959.5 | 1949.8 |
| 35° | 5218.3 | 3813.5 | 2562.9 | 2176.8 | 2058.4 | 2027.6 | 2034.1 | 2001.7 | 1940.0 | 1891.4 | 1883.2 |
| 37.5° | 5396.7 | 3755.1 | 2394.2 | 2055.2 | 1974.1 | 2003.3 | 2019.5 | 1948.1 | 1847.6 | 1771.3 | 1753.5 |
| 40° | 5602.7 | 3688.6 | 2219.0 | 1933.5 | 1907.6 | 1980.6 | 1980.6 | 1849.2 | 1711.3 | 1664.3 | 1651.3 |
| 42.5° | 5844.4 | 3633.5 | 2073.0 | 1831.3 | 1852.4 | 1925.4 | 1917.3 | 1717.8 | 1661.0 | 1636.7 | 1630.2 |
| 45° | 6227.2 | 3614.0 | 1922.2 | 1742.1 | 1807.0 | 1860.5 | 1794.0 | 1672.4 | 1639.9 | 1620.5 | 1614.0 |
| 47.5° | 6832.3 | 3636.7 | 1789.2 | 1675.6 | 1755.1 | 1795.7 | 1656.2 | 1641.6 | 1618.8 | 1591.3 | 1588.0 |
| 50° | 7393.5 | 3615.6 | 1695.1 | 1638.3 | 1709.7 | 1717.8 | 1599.4 | 1604.2 | 1591.3 | 1560.5 | 1554.0 |
| 52.5° | 7852.6 | 3549.1 | 1635.1 | 1618.8 | 1670.8 | 1581.5 | 1545.9 | 1563.7 | 1558.8 | 1519.9 | 1513.4 |
| 55° | 8357.0 | 3508.6 | 1605.9 | 1618.8 | 1644.8 | 1463.1 | 1495.6 | 1521.5 | 1515.0 | 1487.5 | 1485.8 |
| 57.5° | 8968.6 | 3516.7 | 1584.8 | 1623.7 | 1618.8 | 1403.1 | 1445.3 | 1476.1 | 1474.5 | 1466.4 | 1466.4 |
| 60° | 9594.7 | 3519.9 | 1552.3 | 1622.1 | 1588.0 | 1356.1 | 1393.4 | 1437.2 | 1440.4 | 1445.3 | 1445.3 |
| 62.5° | 9802.3 | 3378.8 | 1489.1 | 1592.9 | 1519.9 | 1310.7 | 1344.7 | 1404.7 | 1401.5 | 1414.5 | 1416.1 |
| 65° | 9414.6 | 2987.9 | 1395.0 | 1526.4 | 1432.3 | 1278.2 | 1307.4 | 1362.6 | 1344.7 | 1378.8 | 1385.3 |
| 67.5° | 8569.5 | 2472.1 | 1249.0 | 1406.4 | 1335.0 | 1244.1 | 1283.1 | 1304.2 | 1271.7 | 1338.2 | 1339.8 |
| 70° | 7406.5 | 1930.3 | 1064.1 | 1236.0 | 1224.7 | 1208.5 | 1263.6 | 1231.2 | 1185.7 | 1266.9 | 1250.6 |
| 72.5° | 6193.2 | 1474.5 | 850.0 | 1010.6 | 1077.1 | 1154.9 | 1229.5 | 1137.1 | 1073.8 | 1098.2 | 1069.0 |
| 75° | 4652.2 | 1090.0 | 682.9 | 791.6 | 897.0 | 1078.7 | 1198.7 | 1023.5 | 926.2 | 903.5 | 897.0 |
| 77.5° | 2371.5 | 712.1 | 511.0 | 592.1 | 673.2 | 974.9 | 1156.6 | 890.5 | 767.2 | 731.6 | 715.3 |
| 80° | 846.7 | 442.8 | 360.1 | 408.8 | 454.2 | 838.6 | 1010.6 | 736.4 | 595.3 | 588.8 | 595.3 |
| 82.5° | 392.5 | 285.5 | 241.7 | 267.6 | 269.3 | 559.6 | 770.5 | 549.9 | 452.6 | 687.8 | 580.7 |
| 85° | 168.7 | 142.7 | 136.3 | 133.0 | 123.3 | 249.8 | 433.1 | 295.2 | 460.7 | 206.0 | 189.8 |
| 87.5° | 50.3 | 56.8 | 50.3 | 37.3 | 27.6 | 27.6 | 43.8 | 16.2 | 11.4 | 8.1 | 8.1 |
| 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)