

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: P320969

Luminaire Tested: **GAN-SA5C-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36267 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

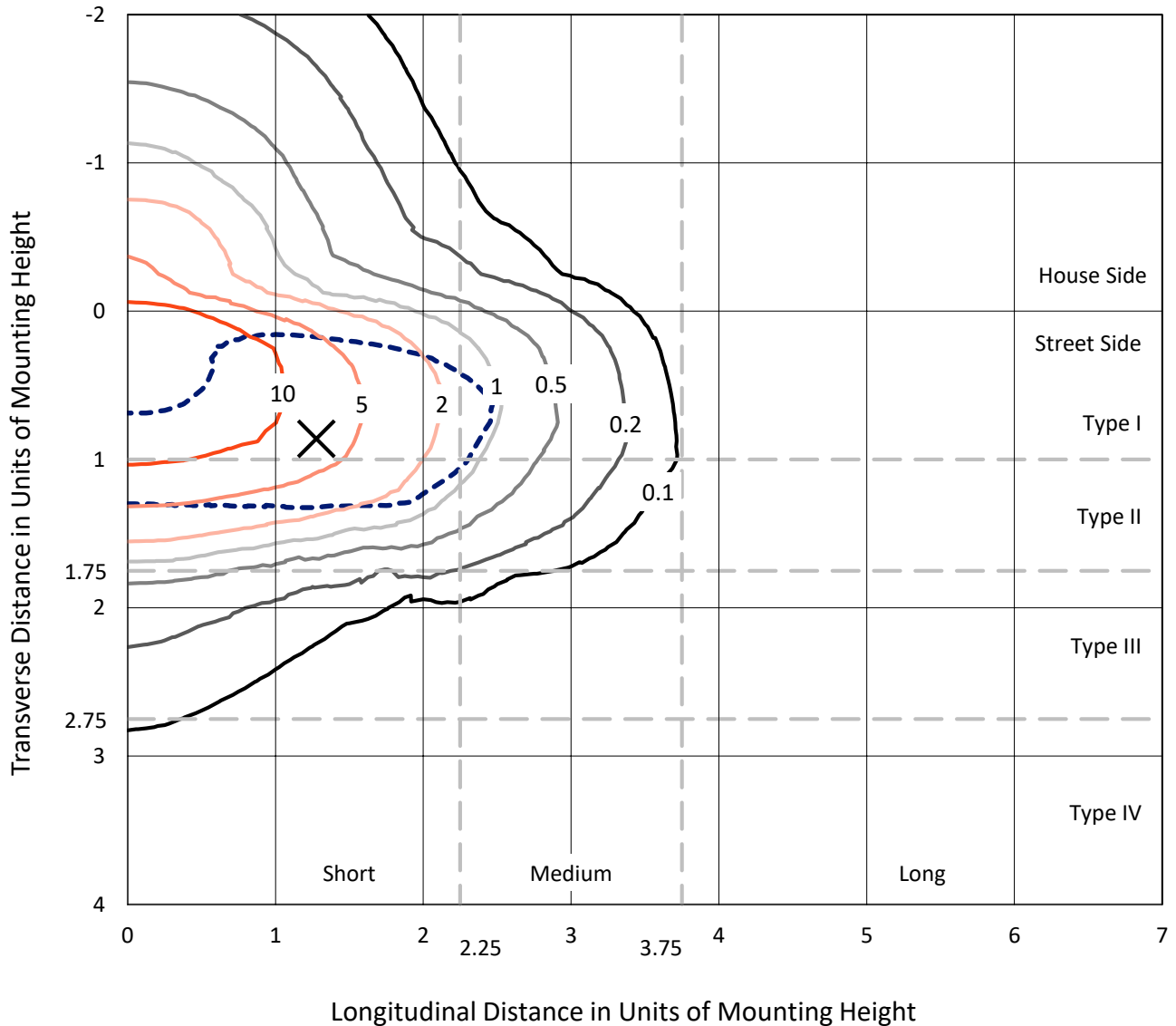
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

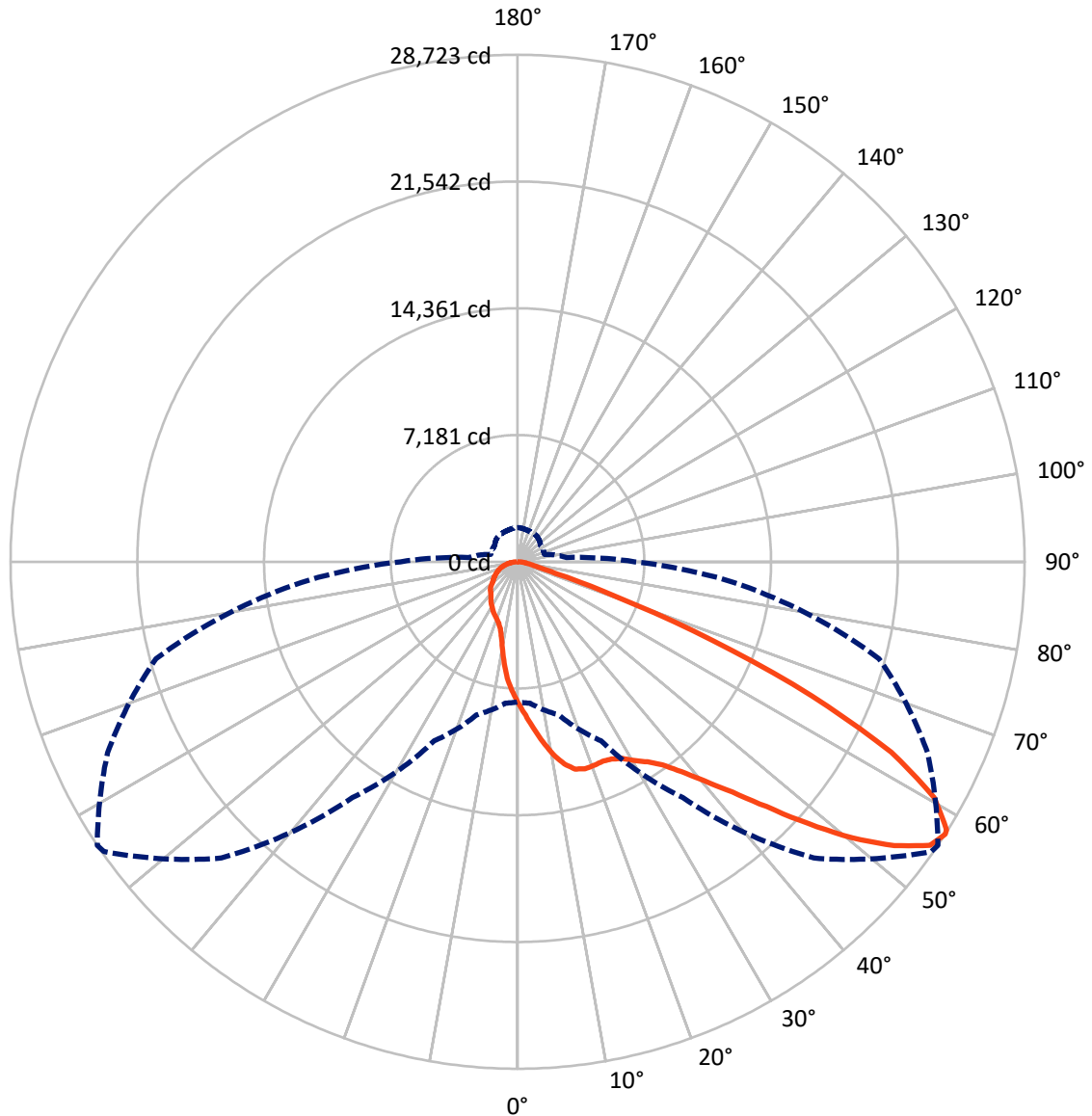
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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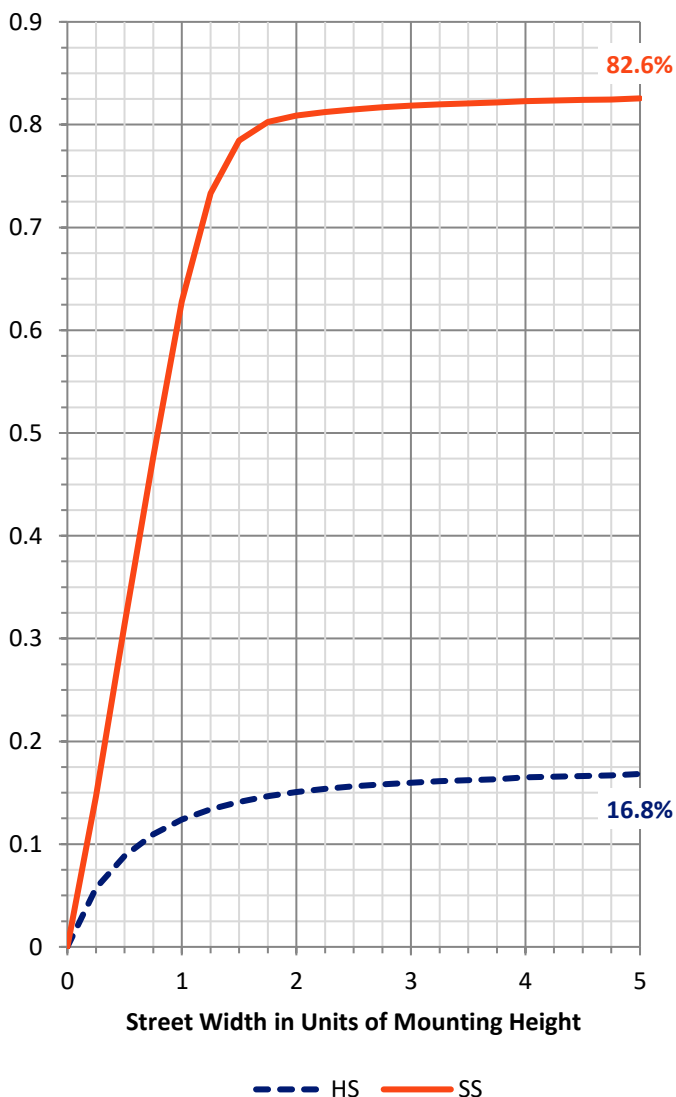
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6251.6 | 0.0 | 6251.6 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 30015.3 | 0.0 | 30015.3 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 36267.0 | 0.0 | 36267.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 768.4 | 2.1 |
| 10°-20° | 2172.5 | 6.0 |
| 20°-30° | 3538.5 | 9.8 |
| 30°-40° | 5289.7 | 14.6 |
| 40°-50° | 8023.4 | 22.1 |
| 50°-60° | 8992.8 | 24.8 |
| 60°-70° | 5311.5 | 14.6 |
| 70°-80° | 1740.2 | 4.8 |
| 80°-90° | 429.9 | 1.2 |
| 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° | 36267.0 | 100.0 |
| 0°-180° | 36267.0 | 100.0 |

Coefficient of Utilization

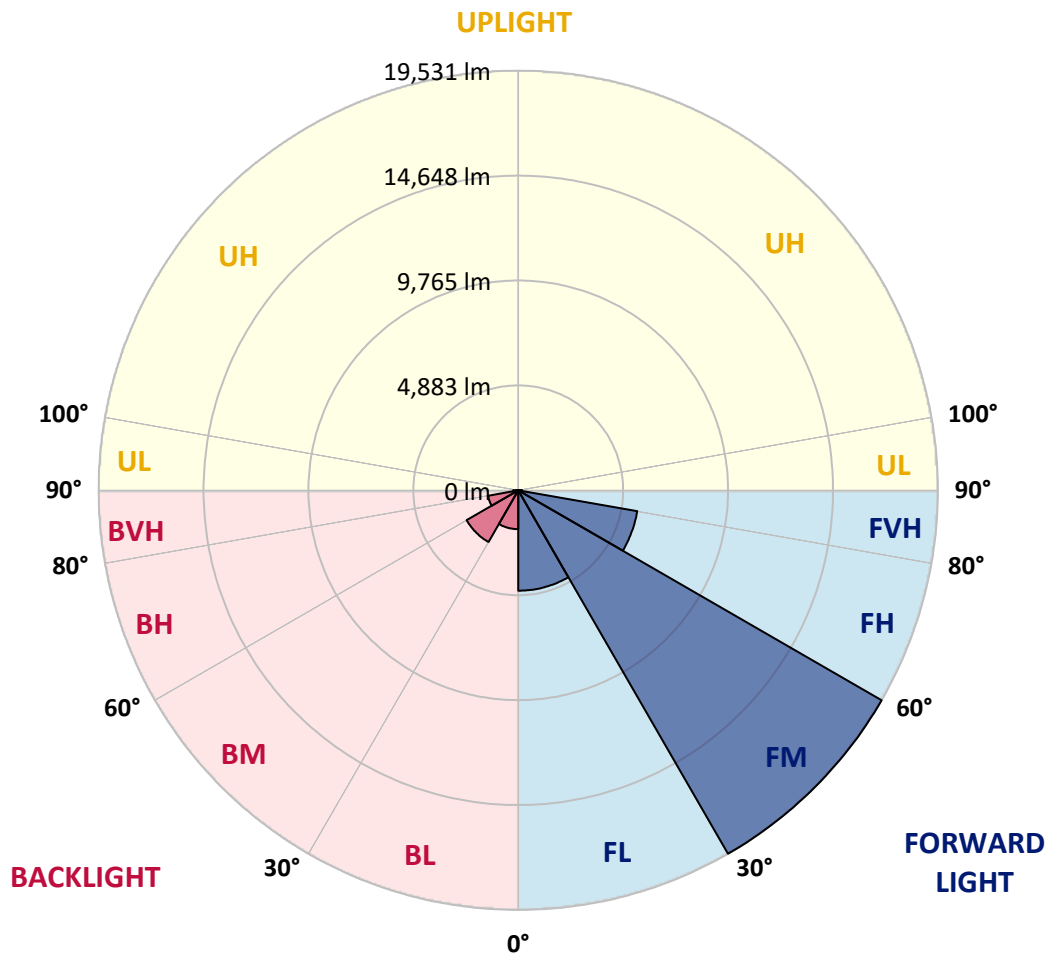


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4671.7 | 12.9 | | | |
| FM (30°-60°) | 19531.0 | 53.9 | | | |
| FH (60°-80°) | 5623.3 | 15.5 | | | G3/7500 |
| FVH (80°-90°) | 189.3 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1807.7 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 2774.9 | 7.7 | B3/5000 | | |
| BH (60°-80°) | 1428.4 | 3.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 240.6 | 0.7 | | | G3/500 |
| 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° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 |
| 2.5° | 9236.8 | 9321.6 | 9284.2 | 9154.6 | 9054.9 | 8914.0 | 8757.0 | 8709.6 | 8543.8 | 8358.1 | 8135.0 |
| 5° | 10698.8 | 10656.4 | 10595.4 | 10393.5 | 10180.3 | 9932.3 | 9538.4 | 9476.1 | 9107.2 | 8687.2 | 8243.5 |
| 7.5° | 11531.4 | 11527.6 | 11491.5 | 11373.1 | 11178.7 | 10854.6 | 10379.7 | 10306.2 | 9749.1 | 9073.6 | 8385.6 |
| 10° | 11410.5 | 11401.8 | 11461.6 | 11585.0 | 11643.6 | 11576.3 | 11176.2 | 11102.6 | 10418.4 | 9501.1 | 8550.1 |
| 12.5° | 10723.7 | 10728.7 | 10824.7 | 11083.9 | 11436.7 | 11860.4 | 11795.6 | 11759.5 | 11112.6 | 9984.6 | 8749.5 |
| 15° | 10189.1 | 10200.3 | 10276.3 | 10501.9 | 10918.2 | 11687.2 | 12172.0 | 12184.5 | 11784.4 | 10518.1 | 8982.6 |
| 17.5° | 9954.7 | 9978.4 | 10013.3 | 10171.6 | 10553.0 | 11341.9 | 12261.8 | 12329.1 | 12372.7 | 11071.5 | 9206.9 |
| 20° | 10029.5 | 10052.0 | 10061.9 | 10162.9 | 10475.7 | 11132.6 | 12199.4 | 12320.3 | 12823.9 | 11592.5 | 9431.3 |
| 22.5° | 10364.8 | 10378.5 | 10384.7 | 10410.9 | 10653.9 | 11192.4 | 12158.3 | 12285.4 | 13150.4 | 12059.8 | 9600.8 |
| 25° | 10920.7 | 10910.7 | 10870.8 | 10837.2 | 11000.4 | 11429.2 | 12253.0 | 12373.9 | 13415.9 | 12483.6 | 9711.7 |
| 27.5° | 11586.2 | 11573.8 | 11496.5 | 11404.3 | 11497.7 | 11798.1 | 12526.0 | 12622.0 | 13654.0 | 12880.0 | 9767.8 |
| 30° | 12385.2 | 12352.7 | 12206.9 | 12097.2 | 12133.4 | 12351.5 | 12975.9 | 13063.2 | 14021.6 | 13329.9 | 9822.6 |
| 32.5° | 13308.7 | 13273.8 | 13063.2 | 12881.2 | 12881.2 | 13063.2 | 13439.6 | 13511.9 | 14333.2 | 13838.4 | 9911.1 |
| 35° | 14465.3 | 14421.7 | 14147.5 | 13842.2 | 13756.2 | 13848.4 | 14071.5 | 14122.6 | 14894.1 | 14479.0 | 10071.9 |
| 37.5° | 15828.9 | 15770.3 | 15415.1 | 15006.3 | 14818.1 | 14813.1 | 14973.9 | 15078.5 | 15790.2 | 15320.3 | 10344.8 |
| 40° | 17196.1 | 17155.0 | 16844.7 | 16523.1 | 16154.2 | 16035.8 | 16283.8 | 16316.2 | 16961.8 | 16364.8 | 10693.8 |
| 42.5° | 18253.0 | 18245.6 | 18188.2 | 18230.6 | 17853.0 | 17613.7 | 17808.1 | 17834.3 | 18392.6 | 17495.3 | 11065.2 |
| 45° | 18811.4 | 18823.9 | 19101.8 | 19717.5 | 19857.1 | 19682.6 | 19778.6 | 19786.1 | 20027.9 | 18635.7 | 11405.5 |
| 47.5° | 18364.0 | 18428.8 | 19131.7 | 20509.0 | 21651.9 | 22231.5 | 22071.9 | 22164.1 | 21613.3 | 19615.3 | 11672.2 |
| 50° | 16620.3 | 16700.1 | 17896.6 | 20156.2 | 22489.4 | 24698.0 | 24614.5 | 24593.3 | 22892.0 | 20333.2 | 11816.8 |
| 52.5° | 14460.4 | 14522.7 | 15509.8 | 18322.8 | 21875.0 | 26061.5 | 26828.1 | 26718.4 | 24028.7 | 20870.4 | 11844.2 |
| 55° | 11171.2 | 11268.4 | 12214.4 | 14663.5 | 19389.7 | 25540.6 | 28455.8 | 28357.3 | 25064.4 | 21152.1 | 11811.8 |
| 57° | 7941.9 | 8044.1 | 8983.8 | 11191.1 | 16311.2 | 23737.1 | 28617.8 | 28722.5 | 25624.1 | 21199.5 | 11848.0 |
| 57.5° | 7086.8 | 7191.5 | 8122.6 | 10266.3 | 15351.5 | 23085.2 | 28478.2 | 28652.7 | 25725.0 | 21192.0 | 11867.9 |
| 60° | 3568.3 | 3608.2 | 4201.5 | 5730.8 | 9704.2 | 18663.1 | 26657.3 | 27107.2 | 25816.0 | 20825.5 | 11953.9 |
| 62.5° | 2218.5 | 2189.9 | 2171.2 | 2639.8 | 4721.2 | 12376.4 | 22899.5 | 23765.7 | 24074.8 | 19938.1 | 11745.8 |
| 65° | 1950.6 | 1897.0 | 1691.3 | 1653.9 | 2085.2 | 6011.2 | 17244.7 | 18322.8 | 20354.4 | 18539.7 | 11249.7 |
| 67.5° | 1832.2 | 1779.8 | 1548.0 | 1408.4 | 1409.6 | 2383.1 | 10706.3 | 11920.3 | 15856.3 | 16175.4 | 10079.4 |
| 70° | 1710.0 | 1662.7 | 1445.8 | 1281.3 | 1200.3 | 1319.9 | 4925.6 | 5846.7 | 10336.1 | 12714.2 | 8424.2 |
| 72.5° | 1553.0 | 1520.6 | 1314.9 | 1145.4 | 1059.4 | 988.4 | 1885.8 | 2227.3 | 5983.8 | 8538.9 | 5850.4 |
| 75° | 1388.5 | 1358.5 | 1182.8 | 1020.8 | 916.1 | 777.7 | 1061.9 | 1144.2 | 3039.9 | 4368.5 | 2880.4 |
| 77.5° | 1207.7 | 1190.3 | 1051.9 | 902.4 | 818.9 | 644.4 | 751.6 | 791.4 | 1303.7 | 1873.3 | 1444.5 |
| 80° | 960.9 | 994.6 | 919.8 | 803.9 | 726.6 | 516.0 | 532.2 | 558.4 | 759.0 | 914.8 | 820.1 |
| 82.5° | 625.7 | 684.3 | 720.4 | 653.1 | 598.3 | 406.3 | 382.6 | 393.9 | 494.8 | 558.4 | 356.5 |
| 85° | 260.5 | 292.9 | 473.6 | 427.5 | 397.6 | 296.6 | 256.8 | 261.7 | 306.6 | 317.8 | 145.8 |
| 87.5° | 115.9 | 123.4 | 208.1 | 195.7 | 168.3 | 102.2 | 109.7 | 119.7 | 163.3 | 154.5 | 56.1 |
| 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° | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 | 8044.1 |
| 2.5° | 8051.5 | 7946.8 | 7767.4 | 7569.2 | 7407.2 | 7277.5 | 7146.7 | 7056.9 | 6952.2 | 6896.1 | 6867.5 |
| 5° | 8057.8 | 7852.1 | 7474.5 | 7086.8 | 6740.4 | 6423.8 | 6122.2 | 5890.3 | 5673.5 | 5556.3 | 5523.9 |
| 7.5° | 8083.9 | 7774.8 | 7164.1 | 6526.0 | 5910.3 | 5348.2 | 4914.4 | 4642.7 | 4447.0 | 4359.8 | 4334.9 |
| 10° | 8105.1 | 7683.9 | 6780.2 | 5835.5 | 4997.9 | 4428.3 | 4091.8 | 3939.8 | 3872.5 | 3861.2 | 3850.0 |
| 12.5° | 8155.0 | 7590.4 | 6376.4 | 5115.1 | 4288.7 | 3894.9 | 3777.7 | 3767.8 | 3786.5 | 3813.9 | 3813.9 |
| 15° | 8233.5 | 7498.1 | 5915.3 | 4496.9 | 3837.6 | 3699.2 | 3722.9 | 3777.7 | 3828.8 | 3871.2 | 3877.4 |
| 17.5° | 8290.8 | 7384.7 | 5419.2 | 4002.1 | 3597.0 | 3634.4 | 3719.2 | 3796.4 | 3848.8 | 3889.9 | 3893.7 |
| 20° | 8332.0 | 7209.0 | 4889.5 | 3624.4 | 3458.7 | 3574.6 | 3680.5 | 3749.1 | 3785.2 | 3826.3 | 3832.6 |
| 22.5° | 8310.8 | 6973.4 | 4419.6 | 3354.0 | 3346.5 | 3487.3 | 3588.3 | 3670.6 | 3643.1 | 3603.2 | 3629.4 |
| 25° | 8208.6 | 6649.4 | 3936.0 | 3152.1 | 3228.1 | 3370.2 | 3494.8 | 3440.0 | 3347.7 | 3330.3 | 3340.3 |
| 27.5° | 8026.6 | 6235.6 | 3488.6 | 2965.1 | 3091.0 | 3261.7 | 3254.3 | 3199.4 | 3167.0 | 3144.6 | 3158.3 |
| 30° | 7830.9 | 5786.9 | 3097.2 | 2801.8 | 2938.9 | 3079.8 | 3051.1 | 3049.9 | 3017.5 | 2981.3 | 2998.8 |
| 32.5° | 7637.7 | 5335.7 | 2786.9 | 2667.2 | 2824.3 | 2843.0 | 2905.3 | 2924.0 | 2860.4 | 2784.4 | 2779.4 |
| 35° | 7469.5 | 4909.4 | 2551.3 | 2545.1 | 2685.9 | 2688.4 | 2779.4 | 2753.2 | 2594.9 | 2516.4 | 2516.4 |
| 37.5° | 7343.6 | 4484.4 | 2371.8 | 2435.4 | 2504.0 | 2568.8 | 2614.9 | 2506.4 | 2480.3 | 2436.6 | 2435.4 |
| 40° | 7288.8 | 4110.5 | 2259.7 | 2351.9 | 2375.6 | 2457.8 | 2339.4 | 2381.8 | 2394.3 | 2371.8 | 2371.8 |
| 42.5° | 7231.4 | 3785.2 | 2162.4 | 2288.3 | 2284.6 | 2273.4 | 2213.5 | 2268.4 | 2318.2 | 2319.5 | 2315.8 |
| 45° | 7174.1 | 3504.8 | 2076.4 | 2152.5 | 2204.8 | 2083.9 | 2095.1 | 2153.7 | 2223.5 | 2248.4 | 2248.4 |
| 47.5° | 7110.5 | 3282.9 | 1997.9 | 2009.1 | 2090.2 | 2009.1 | 2000.4 | 2045.3 | 2127.5 | 2167.4 | 2176.2 |
| 50° | 6970.9 | 3083.5 | 1908.2 | 1883.3 | 1905.7 | 1933.1 | 1940.6 | 1961.8 | 2052.8 | 2116.3 | 2131.3 |
| 52.5° | 6777.7 | 2905.3 | 1793.5 | 1767.3 | 1767.3 | 1870.8 | 1905.7 | 1911.9 | 1989.2 | 2065.2 | 2080.2 |
| 55° | 6617.0 | 2791.9 | 1675.1 | 1670.1 | 1665.1 | 1804.7 | 1864.6 | 1874.5 | 1928.1 | 1988.0 | 1995.4 |
| 57° | 6628.2 | 2783.1 | 1584.1 | 1589.1 | 1587.9 | 1737.4 | 1825.9 | 1847.1 | 1874.5 | 1925.6 | 1934.4 |
| 57.5° | 6634.4 | 2789.4 | 1564.2 | 1566.7 | 1565.4 | 1718.7 | 1814.7 | 1838.4 | 1859.6 | 1913.2 | 1921.9 |
| 60° | 6727.9 | 2805.6 | 1483.2 | 1455.8 | 1462.0 | 1619.0 | 1751.1 | 1781.1 | 1794.8 | 1865.8 | 1877.0 |
| 62.5° | 6589.5 | 2733.3 | 1418.4 | 1352.3 | 1352.3 | 1514.3 | 1662.7 | 1710.0 | 1731.2 | 1827.2 | 1845.9 |
| 65° | 6188.2 | 2530.1 | 1342.3 | 1235.1 | 1247.6 | 1409.6 | 1556.7 | 1634.0 | 1666.4 | 1786.0 | 1806.0 |
| 67.5° | 5568.8 | 2294.6 | 1261.3 | 1130.5 | 1142.9 | 1300.0 | 1447.0 | 1530.5 | 1581.6 | 1741.2 | 1757.4 |
| 70° | 4762.4 | 2006.7 | 1151.6 | 1019.5 | 1034.5 | 1180.3 | 1317.4 | 1412.1 | 1488.2 | 1698.8 | 1703.8 |
| 72.5° | 3511.0 | 1645.2 | 998.3 | 897.4 | 913.6 | 1040.7 | 1186.5 | 1296.2 | 1398.4 | 1592.9 | 1590.4 |
| 75° | 2087.7 | 1286.3 | 828.8 | 774.0 | 785.2 | 903.6 | 1068.1 | 1201.5 | 1354.8 | 1551.7 | 1575.4 |
| 77.5° | 1266.3 | 968.4 | 675.5 | 648.1 | 661.8 | 782.7 | 983.4 | 1125.5 | 1336.1 | 1463.2 | 1455.8 |
| 80° | 765.3 | 691.7 | 539.7 | 522.2 | 535.9 | 669.3 | 909.8 | 1068.1 | 1167.8 | 1250.1 | 1250.1 |
| 82.5° | 400.1 | 422.5 | 396.3 | 382.6 | 401.3 | 543.4 | 827.6 | 932.3 | 1032.0 | 886.2 | 827.6 |
| 85° | 163.3 | 220.6 | 240.5 | 239.3 | 250.5 | 376.4 | 714.2 | 797.7 | 665.6 | 631.9 | 646.9 |
| 87.5° | 54.8 | 93.5 | 117.2 | 101.0 | 105.9 | 236.8 | 494.8 | 385.1 | 457.4 | 319.1 | 302.9 |
| 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)