

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: P455472

Luminaire Tested: **GLAN-SA6C-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33453 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

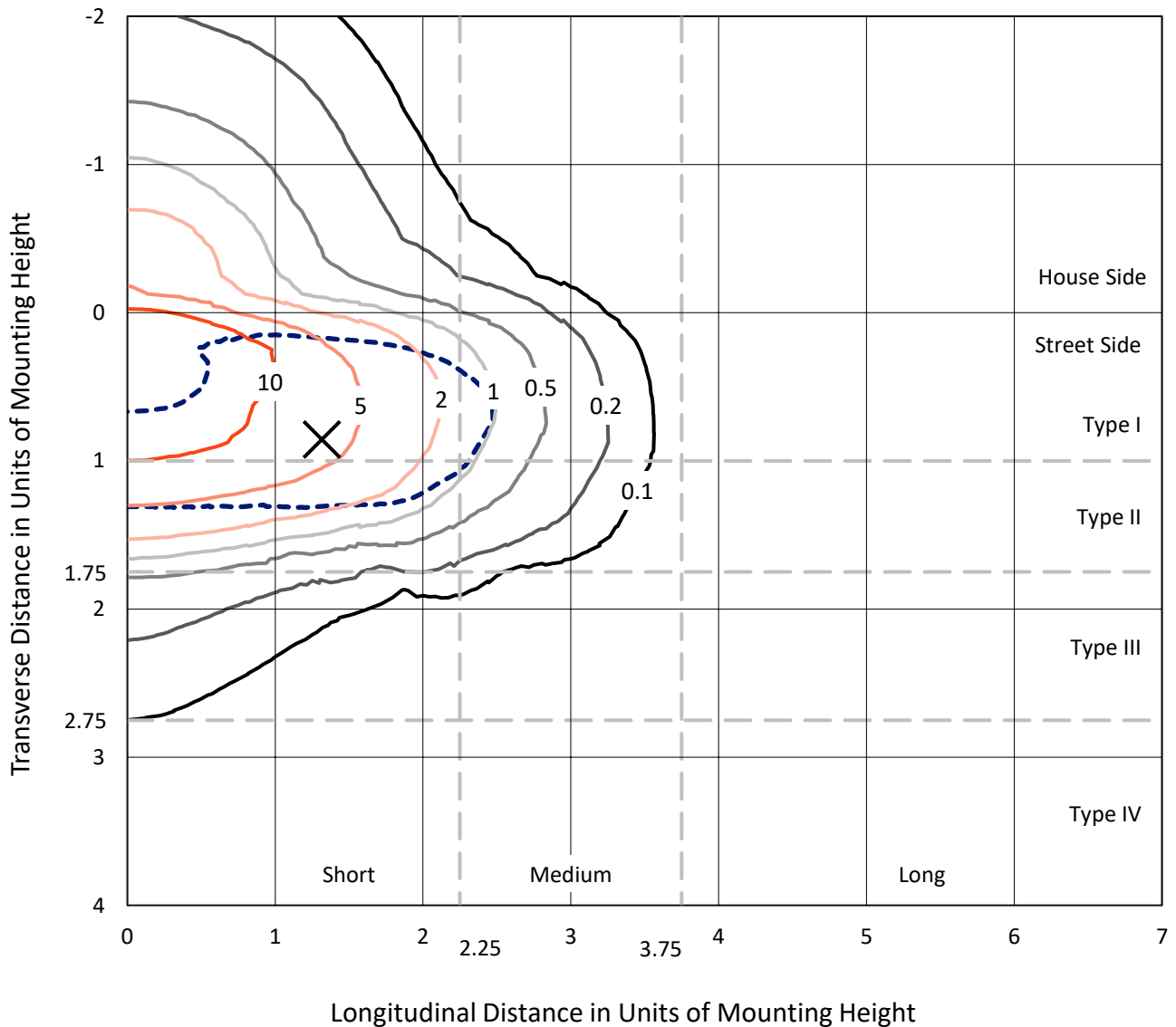
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

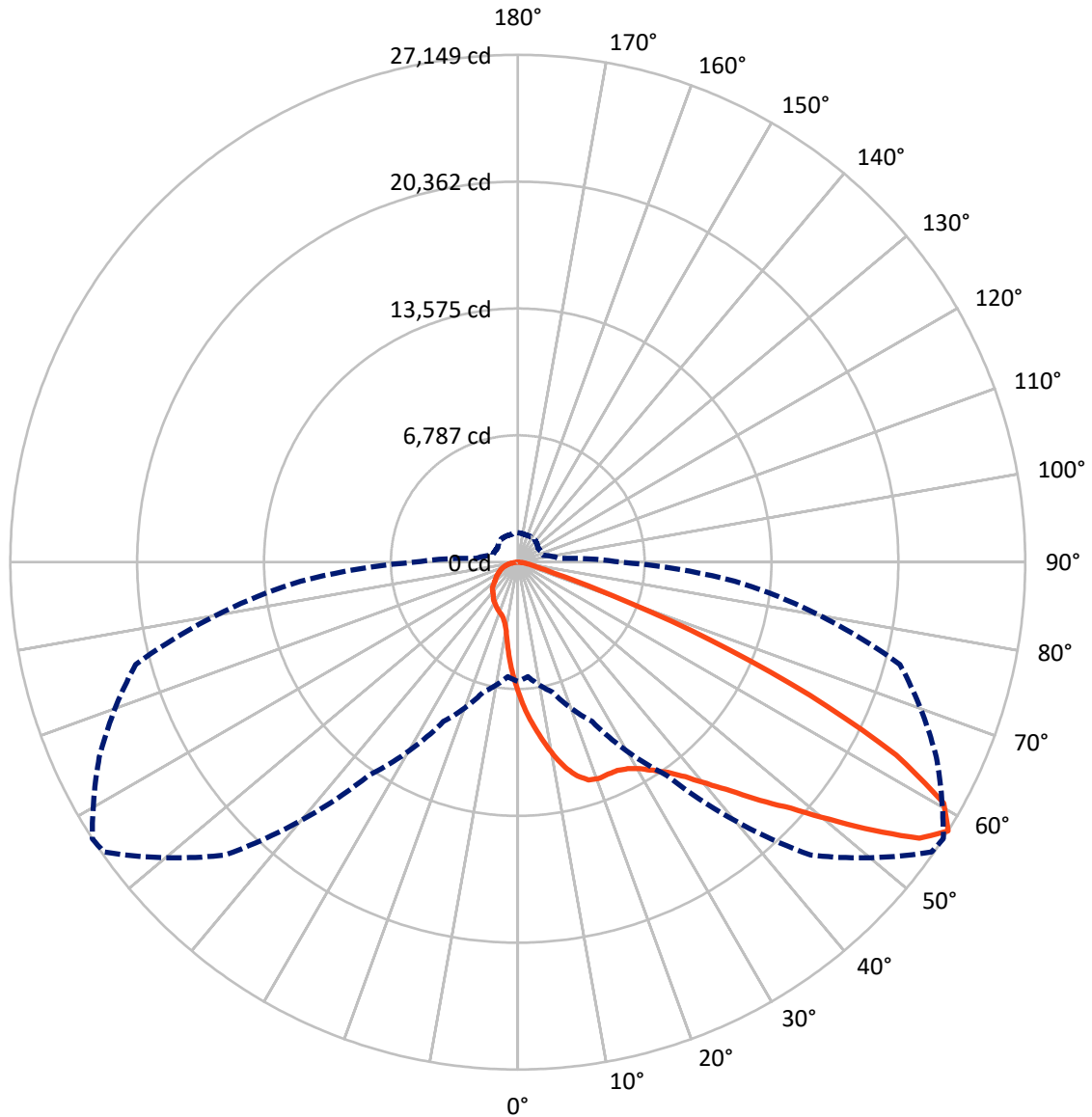
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5087.3 | 0.0 | 5087.3 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 28365.7 | 0.0 | 28365.7 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 33453.0 | 0.0 | 33453.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 675.5 | 2.0 |
| 10°-20° | 1990.6 | 6.0 |
| 20°-30° | 3305.5 | 9.9 |
| 30°-40° | 4979.0 | 14.9 |
| 40°-50° | 7475.6 | 22.3 |
| 50°-60° | 8379.2 | 25.0 |
| 60°-70° | 4903.9 | 14.7 |
| 70°-80° | 1450.5 | 4.3 |
| 80°-90° | 293.2 | 0.9 |
| 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° | 33453.0 | 100.0 |
| 0°-180° | 33453.0 | 100.0 |

Coefficient of Utilization



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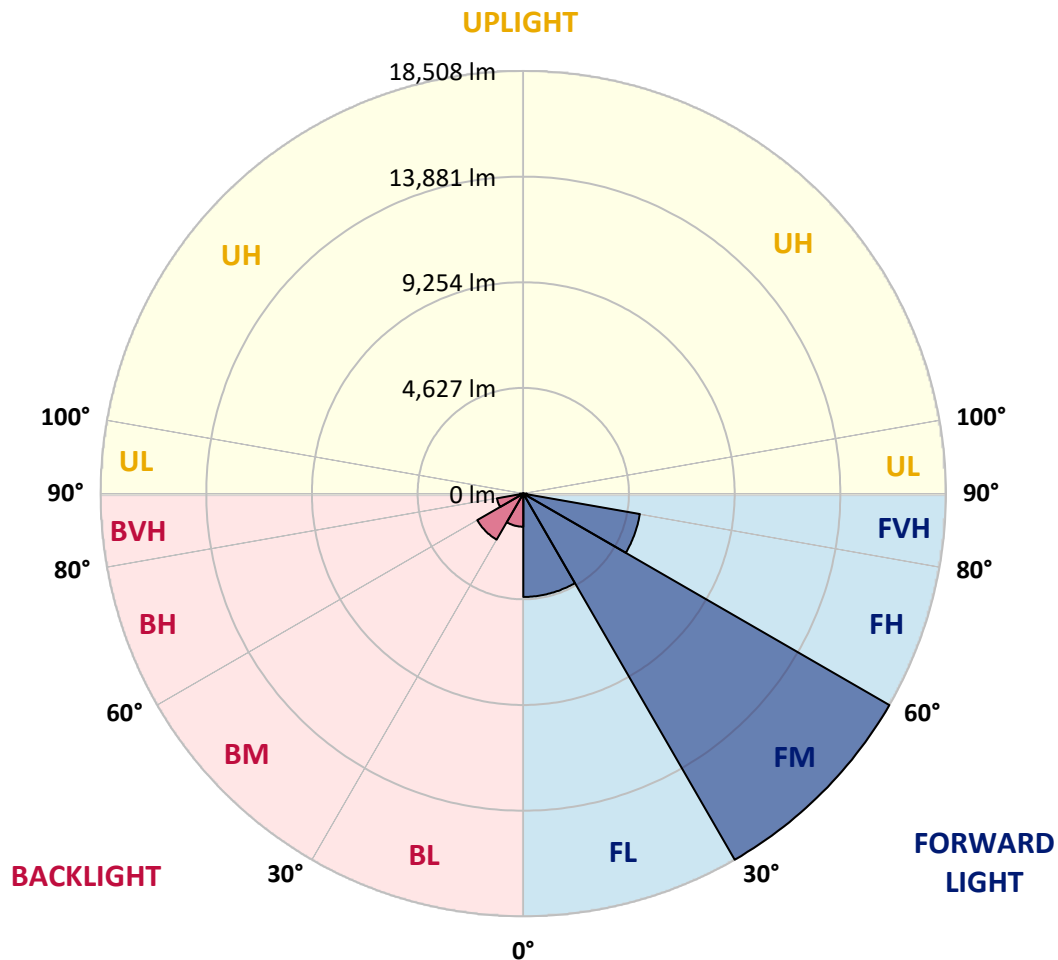
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4522.1 | 13.5 | | | |
| FM | (30°-60°) | 18507.7 | 55.3 | | | |
| FH | (60°-80°) | 5183.9 | 15.5 | | | G3/7500 |
| FVH | (80°-90°) | 152.1 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1449.5 | 4.3 | B3/2500 | | |
| BM | (30°-60°) | 2326.1 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 1170.6 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 141.1 | 0.4 | | | 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° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 |
| 2.5° | 8732.9 | 8637.7 | 8562.6 | 8496.7 | 8410.6 | 8178.1 | 7945.5 | 7941.9 | 7756.9 | 7471.2 | 7178.2 |
| 5° | 10155.8 | 10027.6 | 10044.1 | 9839.0 | 9633.9 | 9296.9 | 8804.3 | 8778.7 | 8385.0 | 7850.3 | 7306.4 |
| 7.5° | 11082.3 | 11084.2 | 11032.9 | 10915.7 | 10694.1 | 10311.4 | 9752.9 | 9626.5 | 9079.0 | 8267.8 | 7452.9 |
| 10° | 11034.7 | 11084.2 | 11170.2 | 11271.0 | 11338.7 | 11150.1 | 10641.0 | 10487.2 | 9774.9 | 8773.2 | 7615.9 |
| 12.5° | 10401.1 | 10478.0 | 10600.7 | 10853.4 | 11261.8 | 11573.1 | 11399.1 | 11274.6 | 10580.6 | 9276.8 | 7795.4 |
| 15° | 10005.6 | 10051.4 | 10119.1 | 10289.4 | 10728.9 | 11474.2 | 11924.7 | 11858.8 | 11340.5 | 9846.3 | 7996.8 |
| 17.5° | 9884.7 | 9930.5 | 9952.5 | 10056.9 | 10370.0 | 11133.6 | 12131.6 | 12248.8 | 12014.4 | 10370.0 | 8200.1 |
| 20° | 10005.6 | 10027.6 | 10027.6 | 10089.8 | 10335.2 | 10934.0 | 12122.5 | 12358.7 | 12567.4 | 10998.1 | 8390.5 |
| 22.5° | 10322.4 | 10331.6 | 10318.7 | 10340.7 | 10523.8 | 10988.9 | 12036.4 | 12329.4 | 13014.2 | 11531.0 | 8538.8 |
| 25° | 10837.0 | 10851.6 | 10767.4 | 10716.1 | 10849.8 | 11230.7 | 12084.0 | 12353.2 | 13364.0 | 12040.0 | 8637.7 |
| 27.5° | 11421.1 | 11439.4 | 11336.9 | 11217.8 | 11280.1 | 11529.1 | 12270.8 | 12512.5 | 13625.9 | 12541.8 | 8700.0 |
| 30° | 12137.1 | 12144.4 | 11972.3 | 11829.5 | 11789.2 | 11974.1 | 12589.4 | 12814.6 | 13951.8 | 13133.3 | 8793.4 |
| 32.5° | 12869.6 | 12924.5 | 12702.9 | 12501.5 | 12433.8 | 12490.5 | 13060.0 | 13277.9 | 14340.0 | 13768.7 | 8943.5 |
| 35° | 13865.7 | 13874.9 | 13609.4 | 13364.0 | 13140.6 | 13213.8 | 13662.5 | 13820.0 | 14876.6 | 14503.0 | 9155.9 |
| 37.5° | 15109.1 | 15193.4 | 14827.1 | 14369.3 | 14094.6 | 13988.4 | 14391.3 | 14563.4 | 15629.2 | 15403.9 | 9476.4 |
| 40° | 16489.8 | 16521.0 | 16207.8 | 15922.2 | 15420.4 | 15112.8 | 15391.1 | 15577.9 | 16557.6 | 16478.8 | 9848.1 |
| 42.5° | 17357.8 | 17425.6 | 17449.4 | 17420.1 | 17042.8 | 16526.5 | 16632.7 | 16720.6 | 17656.3 | 17487.8 | 10229.0 |
| 45° | 17650.8 | 17751.5 | 18092.1 | 18813.6 | 18853.9 | 18344.8 | 18097.6 | 18181.8 | 18853.9 | 18506.0 | 10593.4 |
| 47.5° | 17165.5 | 17337.7 | 17965.8 | 19445.4 | 20553.2 | 20591.7 | 19846.4 | 19661.4 | 19945.3 | 19350.1 | 10857.1 |
| 50° | 15911.2 | 15947.8 | 16909.2 | 19051.7 | 21349.8 | 22739.7 | 21968.7 | 21624.5 | 20981.7 | 19974.6 | 11038.4 |
| 52.5° | 13970.1 | 14012.2 | 14818.0 | 17222.3 | 20859.0 | 24241.2 | 24451.8 | 23836.6 | 22034.7 | 20459.8 | 11157.4 |
| 55° | 10370.0 | 10613.6 | 11499.8 | 13823.6 | 18533.4 | 24100.2 | 26425.8 | 26076.1 | 23307.3 | 20844.4 | 11344.2 |
| 57.5° | 6376.2 | 6152.8 | 7203.9 | 9405.0 | 13939.0 | 22162.8 | 27035.6 | 27149.2 | 24708.2 | 21166.7 | 11657.3 |
| 60° | 2933.6 | 2977.5 | 3411.5 | 4850.8 | 8496.7 | 17337.7 | 25464.5 | 26182.3 | 25482.8 | 21155.7 | 11736.1 |
| 62.5° | 2021.6 | 1981.3 | 1871.5 | 2129.7 | 3874.8 | 10965.1 | 21509.1 | 22725.0 | 23929.9 | 20498.3 | 11422.9 |
| 65° | 1807.4 | 1767.1 | 1554.7 | 1483.3 | 1779.9 | 4779.4 | 15636.5 | 17171.0 | 20148.5 | 18839.2 | 10642.9 |
| 67.5° | 1688.4 | 1633.4 | 1413.7 | 1274.5 | 1270.8 | 1902.6 | 9220.0 | 11067.7 | 14944.3 | 15927.7 | 9221.9 |
| 70° | 1563.8 | 1519.9 | 1302.0 | 1148.2 | 1082.2 | 1195.8 | 4052.4 | 5304.9 | 9703.5 | 11477.9 | 7183.7 |
| 72.5° | 1439.3 | 1388.0 | 1192.1 | 1027.3 | 941.2 | 895.5 | 1552.8 | 2019.8 | 5482.6 | 6881.6 | 4404.0 |
| 75° | 1258.0 | 1232.4 | 1065.8 | 930.2 | 836.9 | 723.3 | 985.2 | 1124.3 | 2622.3 | 3160.6 | 2210.2 |
| 77.5° | 1100.5 | 1073.1 | 946.7 | 813.0 | 745.3 | 587.8 | 699.5 | 763.6 | 1106.0 | 1281.8 | 998.0 |
| 80° | 805.7 | 833.2 | 798.4 | 717.8 | 664.7 | 461.5 | 470.6 | 523.7 | 657.4 | 727.0 | 609.8 |
| 82.5° | 510.9 | 562.2 | 615.3 | 553.0 | 503.6 | 364.4 | 326.0 | 346.1 | 448.6 | 476.1 | 271.0 |
| 85° | 214.2 | 217.9 | 357.1 | 336.9 | 287.5 | 216.1 | 195.9 | 206.9 | 239.9 | 250.9 | 126.4 |
| 87.5° | 82.4 | 80.6 | 126.4 | 117.2 | 89.7 | 62.3 | 62.3 | 69.6 | 95.2 | 87.9 | 40.3 |
| 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° | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 | 7028.1 |
| 2.5° | 7051.9 | 6921.9 | 6663.7 | 6343.2 | 6108.8 | 5845.1 | 5612.6 | 5445.9 | 5383.7 | 5354.4 | 5299.5 |
| 5° | 7046.4 | 6790.0 | 6255.3 | 5695.0 | 5244.5 | 4783.1 | 4393.0 | 4140.3 | 4118.3 | 3949.9 | 3933.4 |
| 7.5° | 7048.2 | 6656.4 | 5804.9 | 4980.8 | 4294.1 | 3821.7 | 3499.4 | 3415.2 | 3314.4 | 3288.8 | 3301.6 |
| 10° | 7053.7 | 6486.1 | 5321.4 | 4274.0 | 3609.3 | 3299.8 | 3178.9 | 3146.0 | 3149.6 | 3160.6 | 3162.5 |
| 12.5° | 7061.1 | 6321.3 | 4819.7 | 3737.5 | 3224.7 | 3096.5 | 3083.7 | 3113.0 | 3144.1 | 3168.0 | 3173.4 |
| 15° | 7070.2 | 6132.6 | 4330.8 | 3305.3 | 3032.4 | 3021.5 | 3063.6 | 3113.0 | 3157.0 | 3191.8 | 3197.3 |
| 17.5° | 7059.2 | 5912.9 | 3920.6 | 3039.8 | 2926.2 | 2979.3 | 3048.9 | 3111.2 | 3151.5 | 3184.4 | 3188.1 |
| 20° | 7033.6 | 5667.5 | 3525.0 | 2853.0 | 2860.3 | 2946.4 | 3021.5 | 3080.1 | 3124.0 | 3140.5 | 3153.3 |
| 22.5° | 6934.7 | 5374.5 | 3180.8 | 2708.3 | 2781.6 | 2900.6 | 2990.3 | 3025.1 | 2975.7 | 2940.9 | 2950.0 |
| 25° | 6766.2 | 4993.6 | 2860.3 | 2591.1 | 2710.2 | 2836.5 | 2928.1 | 2843.8 | 2803.5 | 2788.9 | 2796.2 |
| 27.5° | 6555.6 | 4576.1 | 2618.6 | 2468.4 | 2618.6 | 2765.1 | 2739.5 | 2724.8 | 2706.5 | 2682.7 | 2688.2 |
| 30° | 6328.6 | 4167.8 | 2413.5 | 2373.2 | 2519.7 | 2603.9 | 2614.9 | 2638.7 | 2618.6 | 2582.0 | 2596.6 |
| 32.5° | 6118.0 | 3783.2 | 2257.9 | 2292.6 | 2450.1 | 2437.3 | 2519.7 | 2547.2 | 2453.8 | 2331.1 | 2336.6 |
| 35° | 5938.5 | 3426.1 | 2140.7 | 2213.9 | 2331.1 | 2336.6 | 2419.0 | 2323.8 | 2223.1 | 2164.5 | 2168.1 |
| 37.5° | 5803.0 | 3147.8 | 2063.7 | 2146.2 | 2179.1 | 2248.7 | 2204.7 | 2155.3 | 2142.5 | 2102.2 | 2104.0 |
| 40° | 5722.5 | 2904.3 | 2014.3 | 2093.0 | 2087.6 | 2135.2 | 1994.2 | 2043.6 | 2061.9 | 2049.1 | 2050.9 |
| 42.5° | 5641.9 | 2732.1 | 1963.0 | 2019.8 | 2018.0 | 1924.6 | 1893.4 | 1935.6 | 1983.2 | 1988.7 | 1985.0 |
| 45° | 5577.8 | 2598.5 | 1909.9 | 1908.1 | 1944.7 | 1798.2 | 1789.1 | 1814.7 | 1882.5 | 1915.4 | 1913.6 |
| 47.5° | 5506.4 | 2486.8 | 1829.4 | 1778.1 | 1789.1 | 1719.5 | 1704.8 | 1715.8 | 1798.2 | 1851.3 | 1866.0 |
| 50° | 5416.6 | 2375.0 | 1728.6 | 1659.1 | 1613.3 | 1646.2 | 1649.9 | 1651.7 | 1734.1 | 1794.6 | 1807.4 |
| 52.5° | 5345.2 | 2290.8 | 1613.3 | 1562.0 | 1507.1 | 1580.3 | 1607.8 | 1611.4 | 1660.9 | 1710.3 | 1719.5 |
| 55° | 5387.3 | 2243.2 | 1499.7 | 1463.1 | 1413.7 | 1512.6 | 1565.7 | 1573.0 | 1584.0 | 1620.6 | 1626.1 |
| 57.5° | 5513.7 | 2254.2 | 1408.2 | 1360.6 | 1323.9 | 1432.0 | 1521.7 | 1527.2 | 1519.9 | 1563.8 | 1571.2 |
| 60° | 5552.2 | 2248.7 | 1340.4 | 1247.0 | 1225.1 | 1345.9 | 1457.6 | 1468.6 | 1466.8 | 1530.9 | 1543.7 |
| 62.5° | 5391.0 | 2179.1 | 1272.7 | 1151.8 | 1137.2 | 1258.0 | 1367.9 | 1411.8 | 1421.0 | 1512.6 | 1529.0 |
| 65° | 5012.0 | 2036.3 | 1182.9 | 1051.1 | 1051.1 | 1164.6 | 1281.8 | 1342.3 | 1367.9 | 1490.6 | 1508.9 |
| 67.5° | 4512.0 | 1867.8 | 1091.4 | 965.0 | 961.4 | 1074.9 | 1190.3 | 1252.5 | 1292.8 | 1459.5 | 1470.4 |
| 70° | 3744.8 | 1640.7 | 977.9 | 871.6 | 871.6 | 974.2 | 1078.6 | 1153.6 | 1212.2 | 1400.9 | 1400.9 |
| 72.5° | 2565.5 | 1364.2 | 840.5 | 765.4 | 767.3 | 862.5 | 968.7 | 1052.9 | 1122.5 | 1283.7 | 1287.3 |
| 75° | 1622.4 | 1065.8 | 690.4 | 651.9 | 659.2 | 749.0 | 858.8 | 946.7 | 1085.9 | 1269.0 | 1274.5 |
| 77.5° | 862.5 | 749.0 | 549.4 | 540.2 | 549.4 | 631.8 | 754.4 | 875.3 | 1089.6 | 1100.5 | 1082.2 |
| 80° | 558.5 | 531.0 | 434.0 | 415.7 | 419.3 | 509.1 | 672.0 | 831.4 | 875.3 | 886.3 | 846.0 |
| 82.5° | 304.0 | 336.9 | 307.6 | 289.3 | 289.3 | 397.4 | 573.2 | 661.1 | 628.1 | 521.9 | 498.1 |
| 85° | 130.0 | 157.5 | 159.3 | 139.2 | 133.7 | 245.4 | 384.5 | 360.7 | 335.1 | 320.5 | 316.8 |
| 87.5° | 36.6 | 51.3 | 51.3 | 38.5 | 29.3 | 67.8 | 76.9 | 22.0 | 0.0 | 1.8 | 3.7 |
| 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)