

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: P522725

Luminaire Tested: **GLAN-SA4A-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18104 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

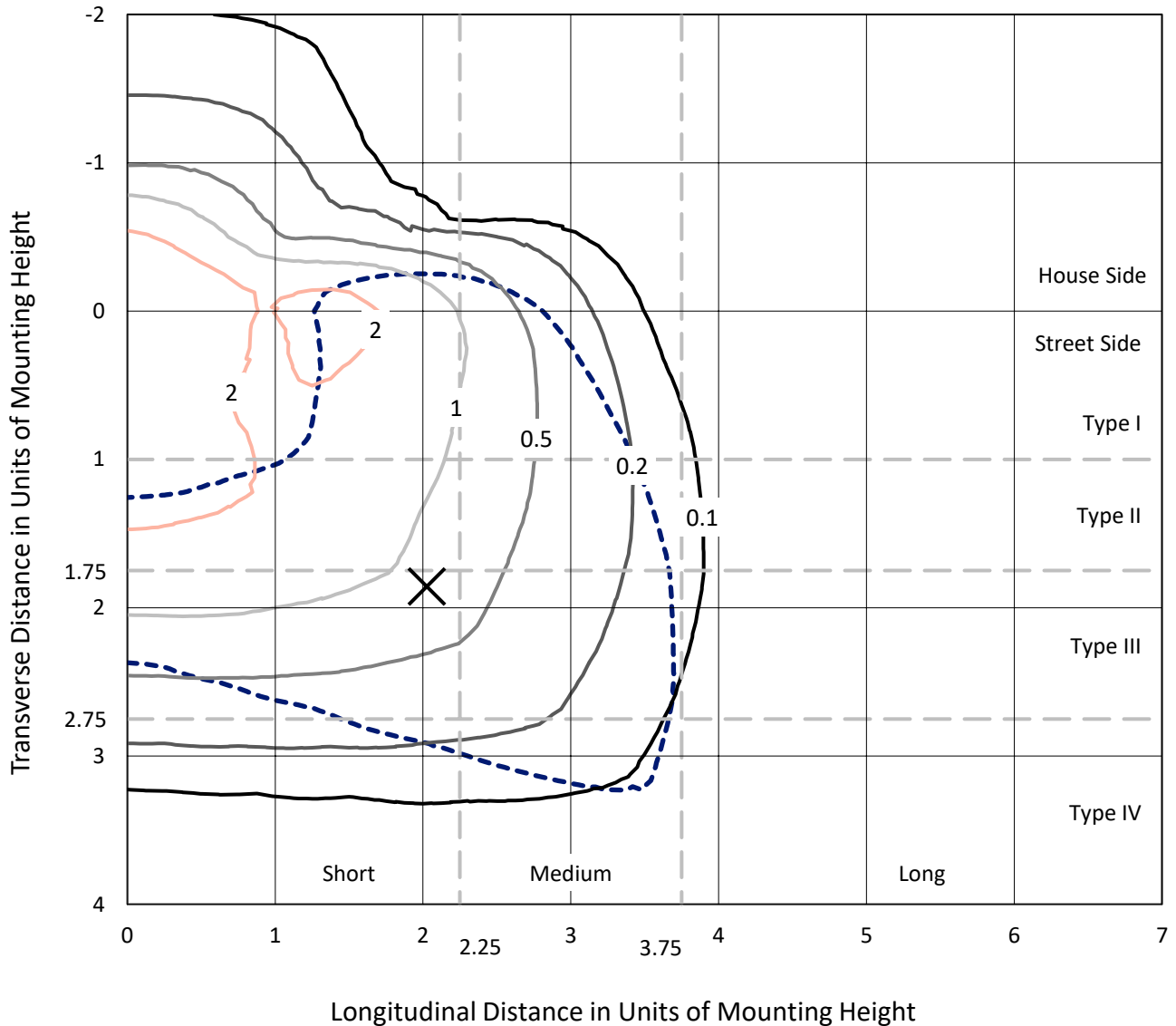
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

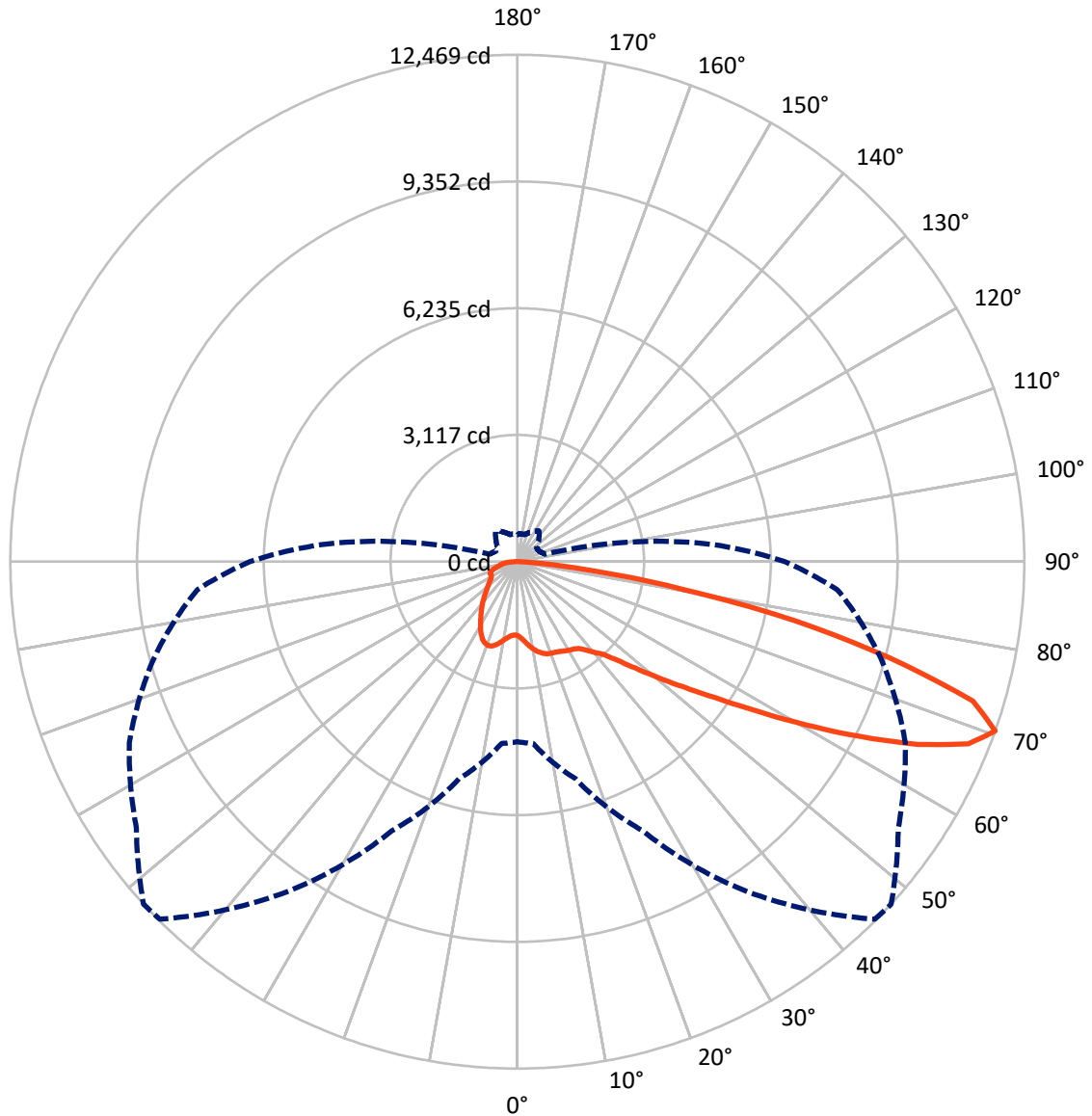
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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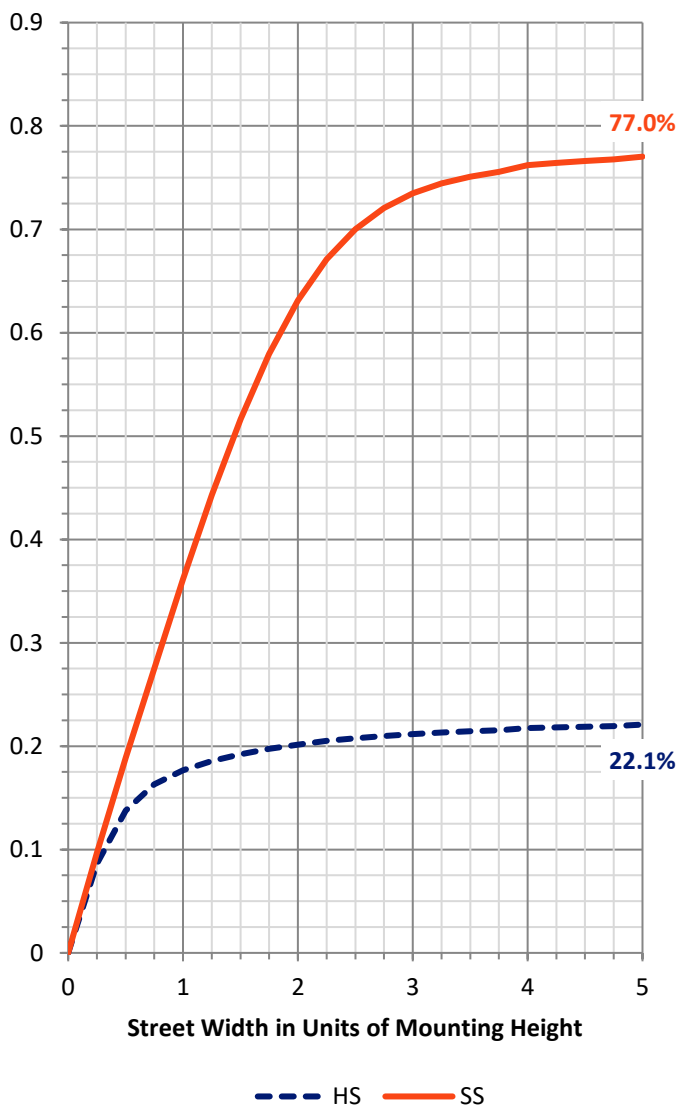
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4099.1 | 0.0 | 4099.1 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 14004.9 | 0.0 | 14004.9 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 18104.0 | 0.0 | 18104.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.3 | 1.0 |
| 10°-20° | 626.3 | 3.5 |
| 20°-30° | 1041.5 | 5.8 |
| 30°-40° | 1476.2 | 8.2 |
| 40°-50° | 2179.2 | 12.0 |
| 50°-60° | 3774.4 | 20.8 |
| 60°-70° | 5331.5 | 29.4 |
| 70°-80° | 3064.8 | 16.9 |
| 80°-90° | 422.9 | 2.3 |
| 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° | 18104.0 | 100.0 |
| 0°-180° | 18104.0 | 100.0 |

Coefficient of Utilization



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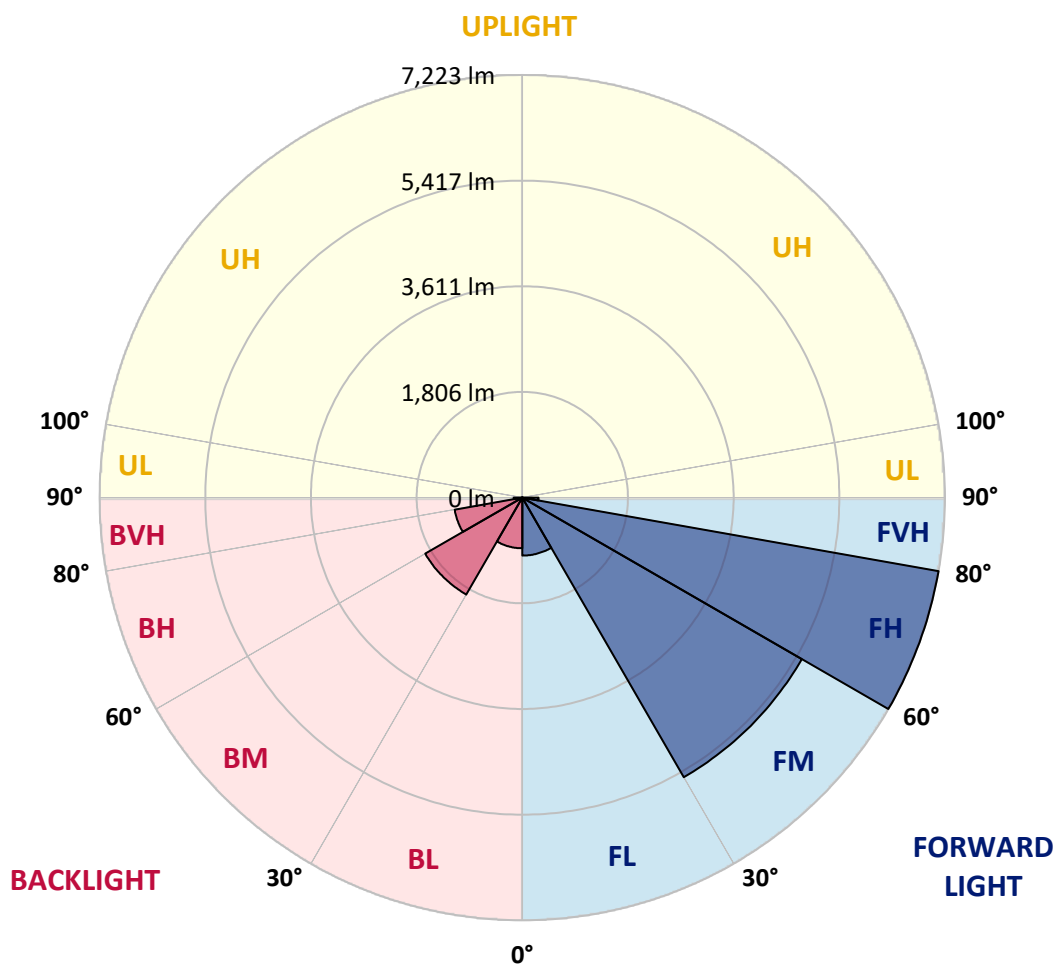
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 990.0 | 5.5 | | | |
| FM | (30°-60°) | 5515.9 | 30.5 | | | |
| FH | (60°-80°) | 7222.7 | 39.9 | | | G3/7500 |
| FVH | (80°-90°) | 276.2 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 865.1 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 1913.8 | 10.6 | B2/2500 | | |
| BH | (60°-80°) | 1173.5 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 146.6 | 0.8 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 |
| 2.5° | 1934.6 | 1927.9 | 1926.9 | 1912.4 | 1904.6 | 1890.1 | 1884.3 | 1870.7 | 1854.2 | 1837.8 | 1822.3 |
| 5° | 2086.7 | 2086.7 | 2080.0 | 2059.6 | 2027.6 | 1994.7 | 1980.2 | 1954.0 | 1907.5 | 1869.7 | 1837.8 |
| 7.5° | 2242.7 | 2244.7 | 2231.1 | 2201.1 | 2155.5 | 2102.2 | 2088.7 | 2049.9 | 1984.1 | 1928.8 | 1881.4 |
| 10° | 2377.4 | 2377.4 | 2359.0 | 2318.3 | 2261.1 | 2203.0 | 2189.4 | 2145.8 | 2072.2 | 2003.4 | 1941.4 |
| 12.5° | 2480.1 | 2480.1 | 2455.8 | 2402.6 | 2340.6 | 2288.2 | 2272.7 | 2231.1 | 2162.3 | 2085.8 | 2007.3 |
| 15° | 2546.9 | 2542.1 | 2514.9 | 2454.9 | 2394.8 | 2349.3 | 2338.6 | 2303.7 | 2240.8 | 2163.3 | 2075.1 |
| 17.5° | 2549.8 | 2547.9 | 2521.7 | 2471.3 | 2419.0 | 2388.0 | 2381.3 | 2358.0 | 2308.6 | 2235.0 | 2142.0 |
| 20° | 2493.6 | 2497.5 | 2480.1 | 2444.2 | 2419.0 | 2405.5 | 2402.6 | 2394.8 | 2359.9 | 2291.2 | 2198.2 |
| 22.5° | 2433.6 | 2440.3 | 2423.9 | 2404.5 | 2402.6 | 2416.1 | 2418.1 | 2420.0 | 2397.7 | 2330.9 | 2245.6 |
| 25° | 2419.0 | 2423.9 | 2407.4 | 2390.0 | 2400.6 | 2436.5 | 2444.2 | 2452.0 | 2434.5 | 2378.3 | 2301.8 |
| 27.5° | 2492.7 | 2488.8 | 2456.8 | 2419.0 | 2425.8 | 2474.3 | 2484.9 | 2493.6 | 2484.9 | 2436.5 | 2371.6 |
| 30° | 2700.9 | 2688.4 | 2624.4 | 2514.0 | 2479.1 | 2513.0 | 2523.7 | 2547.9 | 2547.9 | 2512.0 | 2447.1 |
| 32.5° | 3049.7 | 3025.5 | 2908.3 | 2691.3 | 2570.2 | 2549.8 | 2560.5 | 2600.2 | 2620.5 | 2592.4 | 2521.7 |
| 35° | 3473.1 | 3447.9 | 3280.3 | 2988.7 | 2736.8 | 2623.4 | 2620.5 | 2665.1 | 2719.4 | 2656.4 | 2564.4 |
| 37.5° | 3898.4 | 3872.2 | 3670.7 | 3343.2 | 2980.0 | 2778.4 | 2761.0 | 2776.5 | 2799.8 | 2684.5 | 2623.4 |
| 40° | 4323.6 | 4292.6 | 4116.3 | 3739.5 | 3277.4 | 2983.8 | 2938.3 | 2868.5 | 2858.9 | 2776.5 | 2737.8 |
| 42.5° | 4745.1 | 4717.0 | 4627.8 | 4184.1 | 3633.9 | 3184.4 | 3114.6 | 2994.5 | 3031.3 | 2981.9 | 2948.0 |
| 45° | 5170.4 | 5172.3 | 5077.4 | 4683.1 | 4064.0 | 3554.4 | 3460.5 | 3272.5 | 3359.7 | 3341.3 | 3360.7 |
| 47.5° | 5547.2 | 5542.4 | 5508.5 | 5167.5 | 4597.8 | 4031.1 | 3910.0 | 3692.0 | 3841.2 | 3909.0 | 4057.2 |
| 50° | 5912.4 | 5909.5 | 5911.5 | 5716.7 | 5217.8 | 4597.8 | 4464.1 | 4235.5 | 4571.7 | 4807.1 | 5072.5 |
| 52.5° | 6435.6 | 6452.0 | 6334.8 | 6283.5 | 5971.5 | 5267.2 | 5120.0 | 4883.6 | 5434.8 | 5805.9 | 6324.2 |
| 55° | 6960.7 | 6947.1 | 6855.1 | 6908.3 | 6760.1 | 6059.7 | 5905.7 | 5717.7 | 6395.9 | 6801.8 | 7580.7 |
| 57.5° | 7269.7 | 7274.5 | 7368.5 | 7629.1 | 7733.7 | 7047.8 | 6908.3 | 6763.0 | 7476.0 | 7763.8 | 8698.6 |
| 60° | 7547.7 | 7570.0 | 7840.3 | 8332.4 | 8616.3 | 8261.7 | 8137.7 | 7996.3 | 8467.1 | 8581.4 | 9669.4 |
| 62.5° | 7634.9 | 7703.7 | 8175.5 | 8911.8 | 9476.6 | 9631.6 | 9477.5 | 9165.6 | 9410.7 | 9366.1 | 10327.2 |
| 65° | 7199.9 | 7293.9 | 8139.7 | 9128.8 | 10244.8 | 10931.7 | 10833.8 | 10254.5 | 10214.8 | 9946.4 | 10434.7 |
| 67.5° | 6054.8 | 6148.8 | 7234.8 | 8673.5 | 10562.6 | 12057.4 | 11959.5 | 11048.9 | 10703.0 | 10000.7 | 9620.9 |
| 70° | 4430.2 | 4489.3 | 5527.8 | 7302.6 | 9924.1 | 12435.2 | 12469.1 | 11436.4 | 10528.7 | 9263.4 | 7899.4 |
| 72.5° | 2552.7 | 2683.5 | 3411.1 | 5137.4 | 8107.7 | 11480.0 | 11715.4 | 10630.4 | 9426.2 | 7727.9 | 5523.0 |
| 75° | 1097.6 | 1100.5 | 1577.2 | 2833.7 | 5491.0 | 9227.6 | 9455.3 | 8812.0 | 7402.4 | 5343.8 | 2949.0 |
| 77.5° | 522.2 | 531.9 | 693.6 | 1265.2 | 3022.6 | 6375.5 | 6989.7 | 6225.4 | 4734.4 | 2567.3 | 1114.1 |
| 80° | 339.1 | 345.9 | 424.3 | 627.8 | 1482.2 | 3696.8 | 4125.0 | 3591.3 | 2088.7 | 917.4 | 480.5 |
| 82.5° | 205.4 | 207.3 | 283.9 | 383.6 | 815.7 | 1674.0 | 1973.4 | 1558.8 | 891.3 | 549.3 | 282.9 |
| 85° | 125.0 | 125.9 | 172.4 | 237.4 | 495.0 | 578.4 | 593.9 | 589.0 | 523.1 | 359.4 | 151.1 |
| 87.5° | 60.1 | 62.0 | 89.1 | 112.4 | 194.7 | 179.2 | 169.5 | 196.7 | 247.0 | 193.8 | 64.9 |
| 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° | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 | 1817.4 |
| 2.5° | 1815.5 | 1812.6 | 1805.8 | 1802.9 | 1801.0 | 1801.9 | 1801.0 | 1801.0 | 1801.9 | 1801.9 | 1801.9 |
| 5° | 1824.2 | 1819.4 | 1808.7 | 1808.7 | 1814.5 | 1828.1 | 1840.7 | 1850.4 | 1861.0 | 1860.0 | 1860.0 |
| 7.5° | 1862.0 | 1853.3 | 1840.7 | 1844.5 | 1859.1 | 1880.4 | 1902.7 | 1924.0 | 1945.3 | 1947.2 | 1946.3 |
| 10° | 1917.2 | 1908.5 | 1894.9 | 1899.8 | 1923.0 | 1955.0 | 1983.1 | 2014.1 | 2037.3 | 2044.1 | 2042.2 |
| 12.5° | 1980.2 | 1962.7 | 1951.1 | 1964.7 | 2001.5 | 2044.1 | 2071.2 | 2094.5 | 2111.0 | 2120.7 | 2116.8 |
| 15° | 2044.1 | 2027.6 | 2014.1 | 2042.2 | 2086.7 | 2126.5 | 2140.0 | 2143.9 | 2146.8 | 2156.5 | 2154.6 |
| 17.5° | 2106.1 | 2083.8 | 2079.0 | 2115.8 | 2158.4 | 2175.9 | 2168.1 | 2151.7 | 2139.1 | 2146.8 | 2145.8 |
| 20° | 2161.3 | 2143.9 | 2142.0 | 2178.8 | 2195.2 | 2178.8 | 2145.8 | 2116.8 | 2094.5 | 2096.4 | 2095.5 |
| 22.5° | 2213.7 | 2200.1 | 2202.0 | 2217.5 | 2191.4 | 2135.2 | 2080.9 | 2041.2 | 2017.0 | 2021.8 | 2024.7 |
| 25° | 2271.8 | 2258.2 | 2263.1 | 2237.9 | 2151.7 | 2053.8 | 1975.3 | 1941.4 | 1931.7 | 1941.4 | 1948.2 |
| 27.5° | 2347.3 | 2338.6 | 2335.7 | 2238.8 | 2080.9 | 1933.7 | 1844.5 | 1832.0 | 1840.7 | 1862.0 | 1872.6 |
| 30° | 2428.7 | 2428.7 | 2413.2 | 2222.4 | 1984.1 | 1789.3 | 1711.8 | 1713.8 | 1743.8 | 1773.8 | 1784.5 |
| 32.5° | 2507.2 | 2523.7 | 2475.2 | 2177.8 | 1859.1 | 1648.9 | 1589.8 | 1591.7 | 1617.9 | 1654.7 | 1664.4 |
| 35° | 2572.1 | 2619.6 | 2528.5 | 2096.4 | 1711.8 | 1530.7 | 1486.1 | 1459.9 | 1460.9 | 1489.0 | 1496.8 |
| 37.5° | 2661.2 | 2749.4 | 2559.5 | 1975.3 | 1554.9 | 1429.9 | 1379.5 | 1334.0 | 1304.0 | 1292.3 | 1292.3 |
| 40° | 2816.2 | 2946.0 | 2567.3 | 1796.1 | 1406.7 | 1334.0 | 1262.3 | 1208.1 | 1149.9 | 1097.6 | 1087.9 |
| 42.5° | 3078.8 | 3242.5 | 2551.8 | 1589.8 | 1273.0 | 1228.4 | 1158.7 | 1091.8 | 1011.4 | 937.8 | 932.0 |
| 45° | 3543.8 | 3628.1 | 2510.1 | 1375.7 | 1153.8 | 1126.7 | 1058.9 | 986.2 | 901.0 | 835.1 | 830.2 |
| 47.5° | 4288.8 | 4169.6 | 2454.9 | 1185.8 | 1045.3 | 1037.6 | 985.2 | 901.0 | 815.7 | 770.2 | 765.3 |
| 50° | 5376.7 | 5022.1 | 2447.1 | 1048.2 | 958.1 | 962.0 | 919.4 | 841.9 | 767.3 | 729.5 | 723.7 |
| 52.5° | 6686.5 | 6051.9 | 2498.5 | 951.3 | 881.6 | 896.1 | 874.8 | 803.1 | 737.2 | 705.3 | 699.5 |
| 55° | 7957.5 | 6978.1 | 2529.5 | 875.8 | 809.9 | 837.0 | 839.9 | 779.9 | 719.8 | 687.8 | 684.0 |
| 57.5° | 8989.3 | 7675.6 | 2391.9 | 807.0 | 747.9 | 789.6 | 810.9 | 766.3 | 711.1 | 686.9 | 683.0 |
| 60° | 9707.1 | 8005.0 | 2000.5 | 746.0 | 702.4 | 751.8 | 800.2 | 767.3 | 732.4 | 735.3 | 737.2 |
| 62.5° | 9935.8 | 7858.7 | 1500.6 | 700.4 | 671.4 | 739.2 | 817.6 | 807.0 | 771.1 | 793.4 | 797.3 |
| 65° | 9557.0 | 7254.2 | 1087.9 | 664.6 | 644.2 | 747.9 | 870.0 | 836.1 | 757.6 | 774.1 | 774.1 |
| 67.5° | 8288.8 | 6249.6 | 846.7 | 631.6 | 613.2 | 764.4 | 922.3 | 833.1 | 725.6 | 745.0 | 727.6 |
| 70° | 6575.1 | 4834.2 | 705.3 | 594.8 | 580.3 | 740.1 | 927.1 | 803.1 | 687.8 | 691.7 | 658.8 |
| 72.5° | 4363.4 | 3178.6 | 606.5 | 560.0 | 529.9 | 665.5 | 887.4 | 764.4 | 651.0 | 628.7 | 595.8 |
| 75° | 2138.1 | 1584.9 | 529.0 | 516.4 | 464.0 | 579.3 | 833.1 | 727.6 | 611.3 | 576.4 | 558.0 |
| 77.5° | 828.3 | 674.3 | 451.4 | 461.1 | 404.0 | 510.5 | 761.5 | 675.2 | 559.0 | 511.5 | 497.0 |
| 80° | 402.0 | 382.7 | 370.1 | 384.6 | 332.3 | 435.0 | 695.6 | 629.7 | 510.5 | 458.2 | 436.9 |
| 82.5° | 249.9 | 236.4 | 283.9 | 299.4 | 255.8 | 397.2 | 659.7 | 591.0 | 449.5 | 379.8 | 362.3 |
| 85° | 126.9 | 135.6 | 189.9 | 204.4 | 183.1 | 315.8 | 543.5 | 443.7 | 324.5 | 269.3 | 271.3 |
| 87.5° | 48.4 | 64.9 | 99.8 | 107.5 | 97.8 | 166.6 | 299.4 | 258.7 | 208.3 | 141.4 | 130.8 |
| 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)