

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386554

Luminaire Tested: GAW-SA2B-727-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-727-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8522 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

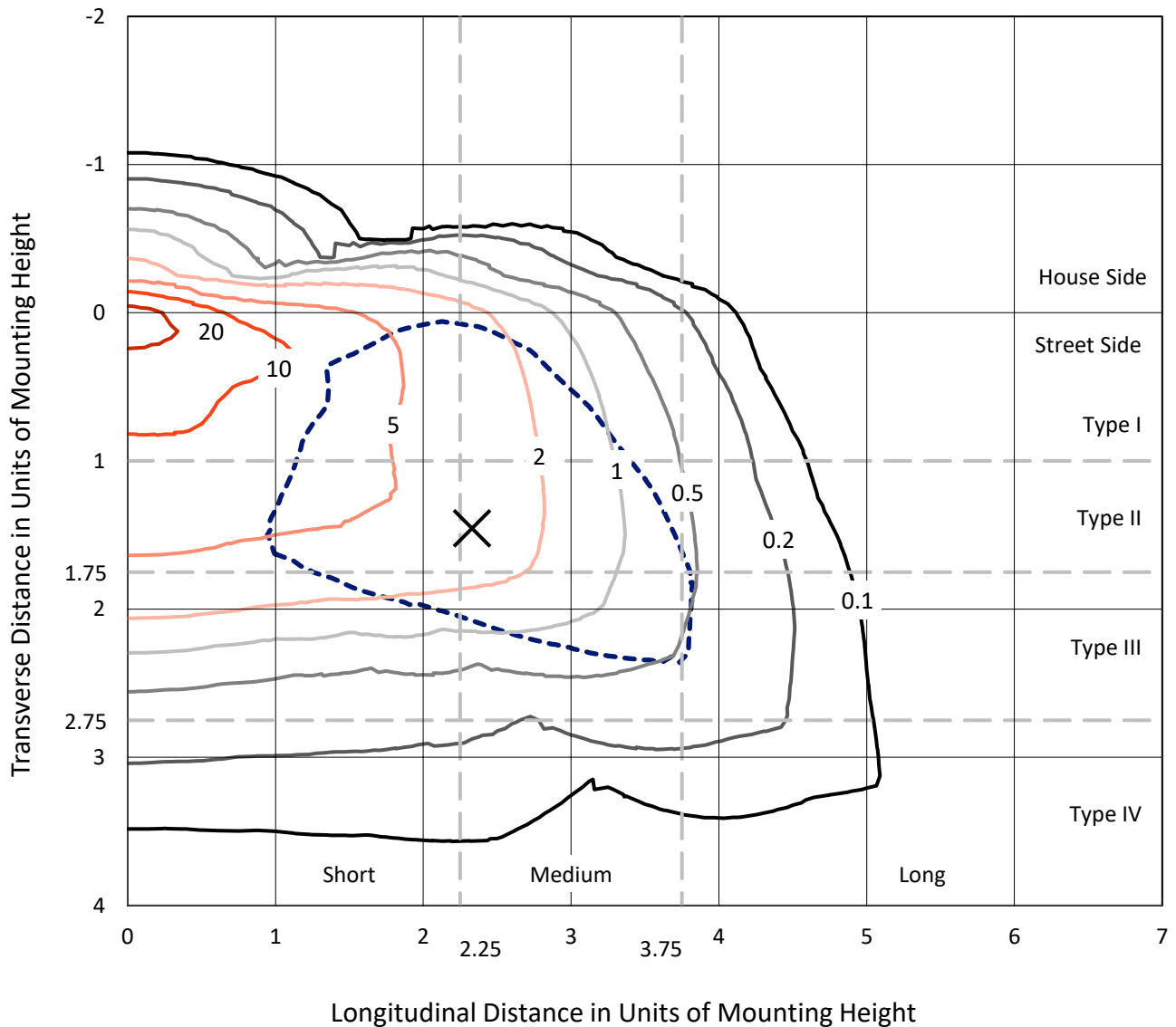
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

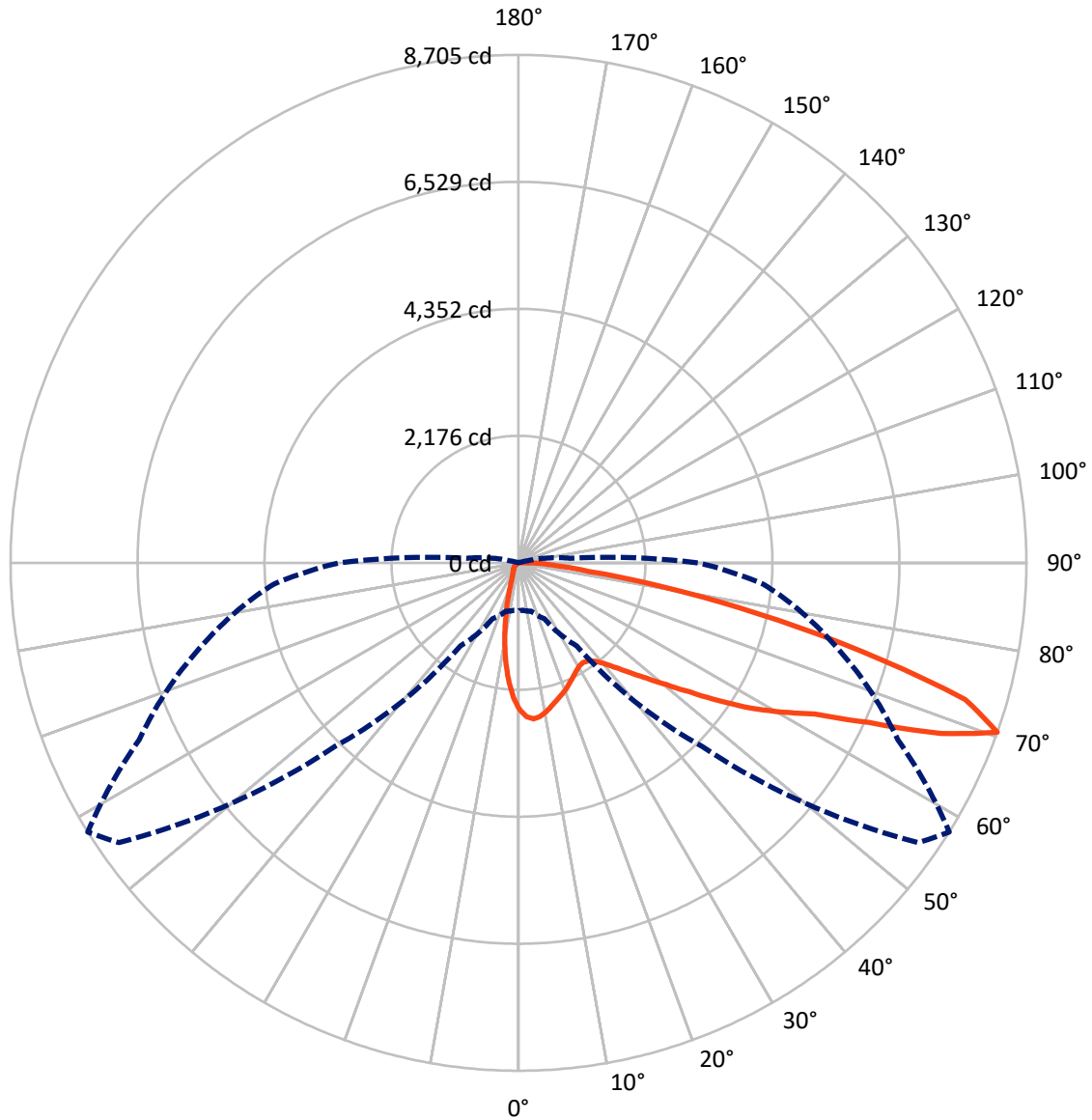
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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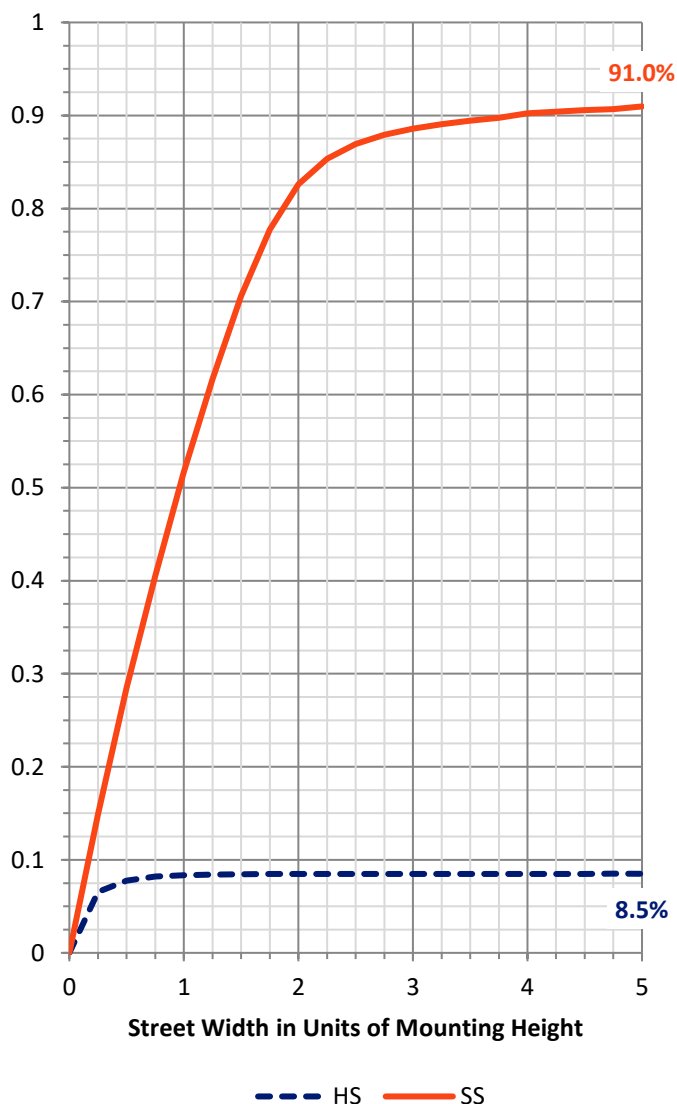
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 729.3 | 0.0 | 729.3 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 7792.7 | 0.0 | 7792.7 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 8522.0 | 0.0 | 8522.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 205.9 | 2.4 |
| 10°-20° | 432.0 | 5.1 |
| 20°-30° | 568.0 | 6.7 |
| 30°-40° | 752.2 | 8.8 |
| 40°-50° | 1124.4 | 13.2 |
| 50°-60° | 1801.2 | 21.1 |
| 60°-70° | 2270.4 | 26.6 |
| 70°-80° | 1224.6 | 14.4 |
| 80°-90° | 143.4 | 1.7 |
| 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° | 8522.0 | 100.0 |
| 0°-180° | 8522.0 | 100.0 |

Coefficient of Utilization

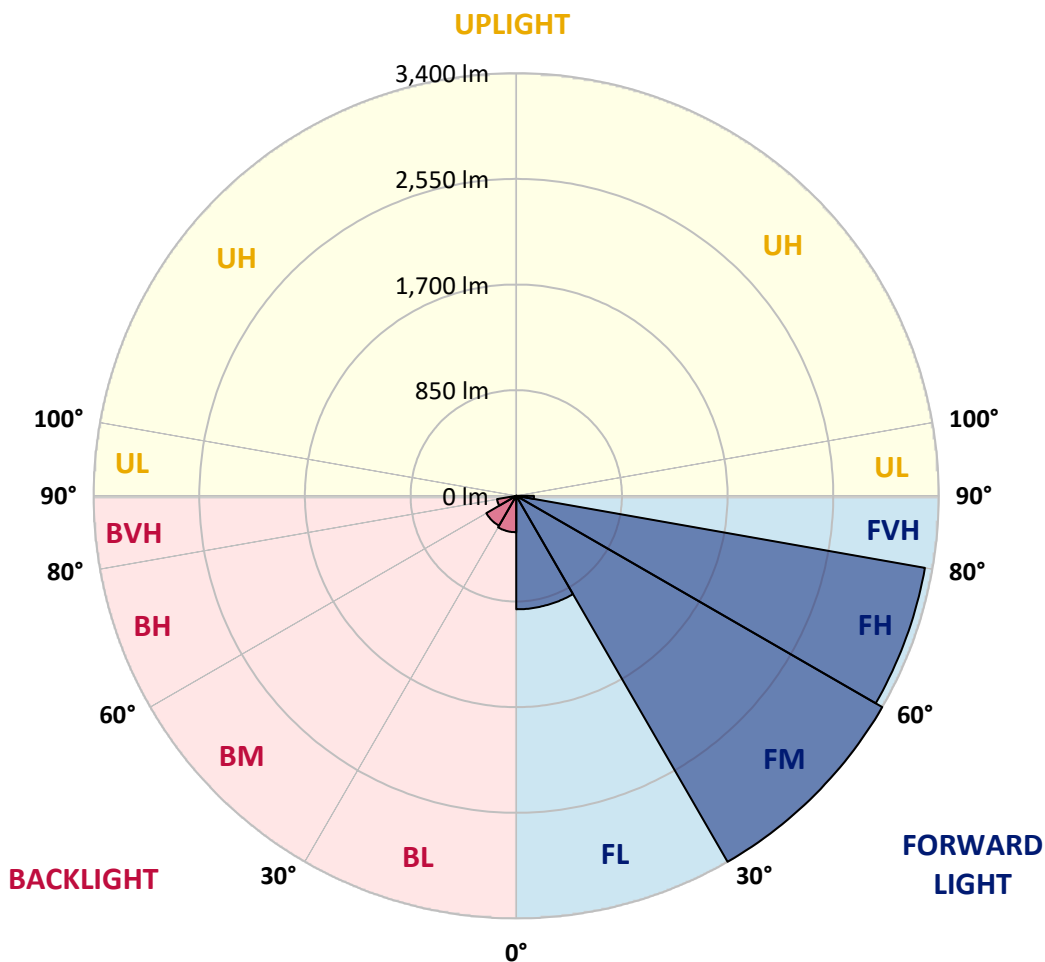


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 912.9 | 10.7 | | | |
| FM (30°-60°) | 3399.6 | 39.9 | | | |
| FH (60°-80°) | 3338.2 | 39.2 | | | G2/5000 |
| FVH (80°-90°) | 142.1 | 1.7 | | | G2/225 |
| BL (0°-30°) | 293.0 | 3.4 | B1/500 | | |
| BM (30°-60°) | 278.2 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 156.8 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 |
| 2.5° | 2726.1 | 2719.3 | 2716.9 | 2712.6 | 2696.3 | 2680.4 | 2648.8 | 2640.0 | 2620.1 | 2573.0 | 2523.0 |
| 5° | 2728.2 | 2727.8 | 2735.3 | 2733.5 | 2727.8 | 2720.4 | 2697.7 | 2686.0 | 2652.4 | 2585.0 | 2493.6 |
| 7.5° | 2596.7 | 2603.5 | 2620.1 | 2633.6 | 2649.2 | 2669.4 | 2672.2 | 2660.9 | 2633.2 | 2560.6 | 2439.4 |
| 10° | 2420.3 | 2430.9 | 2454.3 | 2480.9 | 2521.6 | 2562.0 | 2598.2 | 2596.7 | 2587.2 | 2515.6 | 2374.2 |
| 12.5° | 2243.4 | 2255.8 | 2282.8 | 2322.1 | 2379.9 | 2445.8 | 2510.3 | 2519.1 | 2535.1 | 2475.2 | 2314.0 |
| 15° | 2088.6 | 2099.2 | 2125.8 | 2174.0 | 2245.6 | 2334.2 | 2428.8 | 2445.1 | 2486.2 | 2443.7 | 2263.6 |
| 17.5° | 1957.1 | 1963.9 | 1983.3 | 2036.8 | 2119.8 | 2227.1 | 2350.1 | 2382.0 | 2443.3 | 2418.8 | 2220.1 |
| 20° | 1865.3 | 1866.4 | 1879.2 | 1916.7 | 1999.6 | 2119.8 | 2268.6 | 2314.3 | 2397.9 | 2397.6 | 2175.0 |
| 22.5° | 1820.0 | 1816.4 | 1818.9 | 1840.5 | 1901.5 | 2017.4 | 2187.1 | 2241.3 | 2357.2 | 2379.5 | 2129.3 |
| 25° | 1811.5 | 1808.6 | 1801.6 | 1804.4 | 1841.2 | 1927.7 | 2104.9 | 2167.6 | 2321.4 | 2368.5 | 2089.6 |
| 27.5° | 1838.1 | 1840.9 | 1828.8 | 1816.1 | 1818.9 | 1869.6 | 2031.9 | 2104.5 | 2292.3 | 2368.5 | 2061.7 |
| 30° | 1891.6 | 1893.0 | 1884.1 | 1867.5 | 1845.1 | 1853.3 | 1981.2 | 2053.9 | 2277.8 | 2384.8 | 2043.9 |
| 32.5° | 1950.7 | 1958.5 | 1957.5 | 1944.0 | 1912.1 | 1879.2 | 1969.2 | 2035.4 | 2276.7 | 2421.0 | 2042.2 |
| 35° | 2024.1 | 2033.0 | 2047.8 | 2045.0 | 2011.7 | 1957.5 | 2010.3 | 2062.4 | 2297.7 | 2480.5 | 2061.3 |
| 37.5° | 2102.1 | 2115.5 | 2147.4 | 2162.6 | 2141.0 | 2079.7 | 2102.4 | 2139.6 | 2353.6 | 2576.9 | 2109.8 |
| 40° | 2177.5 | 2192.8 | 2250.9 | 2310.8 | 2294.5 | 2231.4 | 2242.0 | 2271.8 | 2453.2 | 2715.4 | 2202.0 |
| 42.5° | 2251.6 | 2274.3 | 2359.7 | 2458.2 | 2477.7 | 2427.4 | 2433.0 | 2456.8 | 2601.0 | 2906.1 | 2352.6 |
| 45° | 2340.2 | 2365.7 | 2492.2 | 2613.7 | 2665.8 | 2643.9 | 2668.0 | 2683.6 | 2794.1 | 3158.0 | 2555.6 |
| 47.5° | 2470.2 | 2499.6 | 2654.8 | 2793.4 | 2884.8 | 2899.0 | 2947.5 | 2957.8 | 3038.3 | 3451.4 | 2820.3 |
| 50° | 2723.9 | 2732.1 | 2872.4 | 2998.2 | 3130.0 | 3215.1 | 3270.4 | 3278.2 | 3333.8 | 3772.1 | 3151.0 |
| 52.5° | 3043.2 | 3048.5 | 3127.9 | 3212.3 | 3362.1 | 3535.8 | 3665.1 | 3676.1 | 3687.8 | 4084.7 | 3477.3 |
| 55° | 3360.4 | 3359.7 | 3412.1 | 3461.7 | 3633.2 | 3885.5 | 4166.2 | 4172.9 | 4088.9 | 4381.3 | 3726.8 |
| 57.5° | 3558.5 | 3577.6 | 3657.3 | 3721.1 | 3960.7 | 4284.2 | 4673.6 | 4698.4 | 4510.3 | 4601.0 | 3973.4 |
| 60° | 3495.4 | 3504.6 | 3681.4 | 3917.4 | 4368.5 | 4850.8 | 5187.1 | 5193.5 | 4827.1 | 4820.3 | 4285.2 |
| 62.5° | 2978.0 | 2983.0 | 3260.8 | 3747.3 | 4575.1 | 5585.7 | 5806.5 | 5702.7 | 5191.3 | 5124.7 | 4658.4 |
| 65° | 2041.1 | 2073.3 | 2305.5 | 2906.8 | 4195.6 | 6046.8 | 6765.4 | 6593.5 | 5746.6 | 5563.4 | 4995.7 |
| 67.5° | 1202.0 | 1195.2 | 1310.1 | 1753.0 | 3081.5 | 5740.6 | 7978.4 | 7807.6 | 6503.9 | 5857.2 | 4896.9 |
| 70° | 821.0 | 816.4 | 860.4 | 1061.3 | 1739.5 | 4453.2 | 8360.0 | 8704.8 | 7172.6 | 5659.4 | 4214.4 |
| 72.5° | 586.1 | 588.6 | 653.4 | 824.6 | 1092.1 | 2594.6 | 7189.2 | 8005.3 | 6963.1 | 4933.7 | 3203.4 |
| 75° | 397.9 | 404.7 | 497.5 | 676.5 | 957.5 | 1320.0 | 5101.7 | 6085.4 | 5670.1 | 3585.7 | 1841.2 |
| 77.5° | 214.0 | 221.5 | 331.0 | 545.0 | 865.7 | 917.1 | 3281.7 | 4188.2 | 3561.7 | 1612.0 | 533.7 |
| 80° | 89.3 | 93.6 | 154.9 | 396.2 | 748.0 | 805.5 | 1930.9 | 2539.7 | 1517.7 | 317.9 | 119.1 |
| 82.5° | 38.6 | 40.8 | 64.5 | 236.4 | 559.2 | 680.0 | 1022.3 | 1221.8 | 460.0 | 69.8 | 59.9 |
| 85° | 7.4 | 7.8 | 26.6 | 125.1 | 356.8 | 383.8 | 662.6 | 649.5 | 206.6 | 30.1 | 43.6 |
| 87.5° | 0.0 | 0.0 | 6.4 | 39.3 | 104.9 | 209.1 | 404.3 | 399.4 | 70.2 | 14.5 | 16.3 |
| 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° | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 | 2517.4 |
| 2.5° | 2497.5 | 2473.1 | 2421.7 | 2358.3 | 2309.7 | 2256.2 | 2213.7 | 2159.8 | 2136.4 | 2137.5 | 2124.7 |
| 5° | 2441.5 | 2391.2 | 2277.5 | 2133.9 | 2023.4 | 1909.3 | 1811.1 | 1713.3 | 1655.6 | 1636.8 | 1619.1 |
| 7.5° | 2361.4 | 2281.7 | 2100.3 | 1879.2 | 1692.1 | 1509.2 | 1350.1 | 1210.1 | 1121.5 | 1078.3 | 1062.4 |
| 10° | 2271.1 | 2159.1 | 1896.5 | 1605.2 | 1338.1 | 1090.7 | 884.5 | 705.2 | 633.6 | 585.0 | 572.6 |
| 12.5° | 2191.7 | 2040.0 | 1697.4 | 1324.2 | 1007.1 | 708.7 | 512.0 | 400.4 | 351.9 | 332.7 | 329.6 |
| 15° | 2116.9 | 1928.8 | 1505.7 | 1069.8 | 697.4 | 436.2 | 325.7 | 287.7 | 276.4 | 273.2 | 273.2 |
| 17.5° | 2046.4 | 1822.8 | 1318.2 | 819.3 | 461.4 | 305.8 | 269.7 | 261.2 | 257.6 | 257.3 | 257.6 |
| 20° | 1972.7 | 1716.9 | 1133.9 | 600.3 | 322.1 | 259.0 | 249.1 | 244.5 | 243.4 | 243.4 | 243.4 |
| 22.5° | 1902.2 | 1610.9 | 954.6 | 428.8 | 258.3 | 236.4 | 231.4 | 228.2 | 227.1 | 226.8 | 226.1 |
| 25° | 1834.5 | 1510.3 | 779.6 | 303.0 | 226.8 | 216.5 | 212.3 | 208.0 | 204.8 | 203.0 | 202.0 |
| 27.5° | 1778.9 | 1420.6 | 616.6 | 243.1 | 204.8 | 196.0 | 190.6 | 184.3 | 176.5 | 172.9 | 171.5 |
| 30° | 1734.6 | 1338.8 | 475.2 | 205.2 | 184.3 | 175.4 | 167.3 | 156.3 | 144.9 | 138.9 | 138.6 |
| 32.5° | 1699.9 | 1258.3 | 360.7 | 181.4 | 165.8 | 154.9 | 143.2 | 129.3 | 116.2 | 109.5 | 109.1 |
| 35° | 1682.8 | 1187.5 | 275.7 | 164.1 | 149.5 | 135.7 | 121.2 | 106.0 | 93.2 | 86.8 | 86.1 |
| 37.5° | 1694.2 | 1127.6 | 215.1 | 149.5 | 135.7 | 119.8 | 102.8 | 86.8 | 75.5 | 69.8 | 69.5 |
| 40° | 1735.6 | 1089.3 | 174.7 | 137.1 | 124.0 | 104.5 | 86.1 | 71.2 | 61.7 | 57.1 | 56.7 |
| 42.5° | 1823.9 | 1075.1 | 149.2 | 126.9 | 112.7 | 90.4 | 71.6 | 58.8 | 50.0 | 46.8 | 46.1 |
| 45° | 1971.3 | 1096.0 | 131.8 | 116.9 | 101.0 | 76.9 | 59.2 | 48.2 | 40.4 | 37.9 | 37.6 |
| 47.5° | 2167.6 | 1151.0 | 119.4 | 107.4 | 90.4 | 64.8 | 49.3 | 39.0 | 33.0 | 30.5 | 30.1 |
| 50° | 2420.6 | 1238.1 | 109.1 | 97.8 | 80.4 | 54.9 | 40.8 | 30.8 | 25.5 | 23.7 | 23.7 |
| 52.5° | 2696.0 | 1342.0 | 99.9 | 88.9 | 70.5 | 45.7 | 33.0 | 23.7 | 20.2 | 18.1 | 18.1 |
| 55° | 2923.5 | 1432.7 | 90.0 | 82.2 | 58.5 | 37.9 | 25.2 | 18.1 | 14.9 | 13.8 | 13.8 |
| 57.5° | 3150.6 | 1529.4 | 78.7 | 70.5 | 46.8 | 30.8 | 19.1 | 13.5 | 11.0 | 10.3 | 10.3 |
| 60° | 3445.1 | 1647.8 | 67.7 | 57.4 | 36.9 | 23.4 | 14.2 | 9.6 | 8.2 | 7.8 | 7.8 |
| 62.5° | 3769.0 | 1717.2 | 57.8 | 46.1 | 28.7 | 17.4 | 10.3 | 6.4 | 6.0 | 6.0 | 5.7 |
| 65° | 3967.0 | 1619.1 | 48.5 | 36.9 | 22.3 | 13.1 | 6.7 | 4.6 | 5.3 | 5.0 | 4.3 |
| 67.5° | 3714.4 | 1267.5 | 39.7 | 28.7 | 17.4 | 9.9 | 4.3 | 3.2 | 5.7 | 4.6 | 3.5 |
| 70° | 3075.5 | 887.3 | 30.8 | 20.2 | 13.8 | 8.5 | 2.8 | 2.1 | 6.0 | 4.6 | 2.8 |
| 72.5° | 2301.6 | 593.9 | 24.5 | 13.5 | 10.3 | 7.4 | 2.5 | 1.1 | 5.3 | 3.9 | 2.5 |
| 75° | 1257.6 | 239.2 | 19.5 | 8.5 | 6.4 | 5.3 | 1.8 | 0.7 | 3.5 | 2.8 | 1.8 |
| 77.5° | 331.0 | 63.1 | 14.2 | 5.7 | 3.5 | 2.1 | 1.1 | 0.4 | 1.8 | 1.4 | 0.7 |
| 80° | 84.3 | 24.5 | 9.2 | 3.9 | 2.5 | 1.1 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| 82.5° | 45.0 | 10.3 | 5.7 | 2.8 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 34.0 | 6.7 | 3.2 | 1.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.1 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 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)