

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: P650387

Luminaire Tested: **GLAN-SA4B-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650387  
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-SA4B-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17637.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

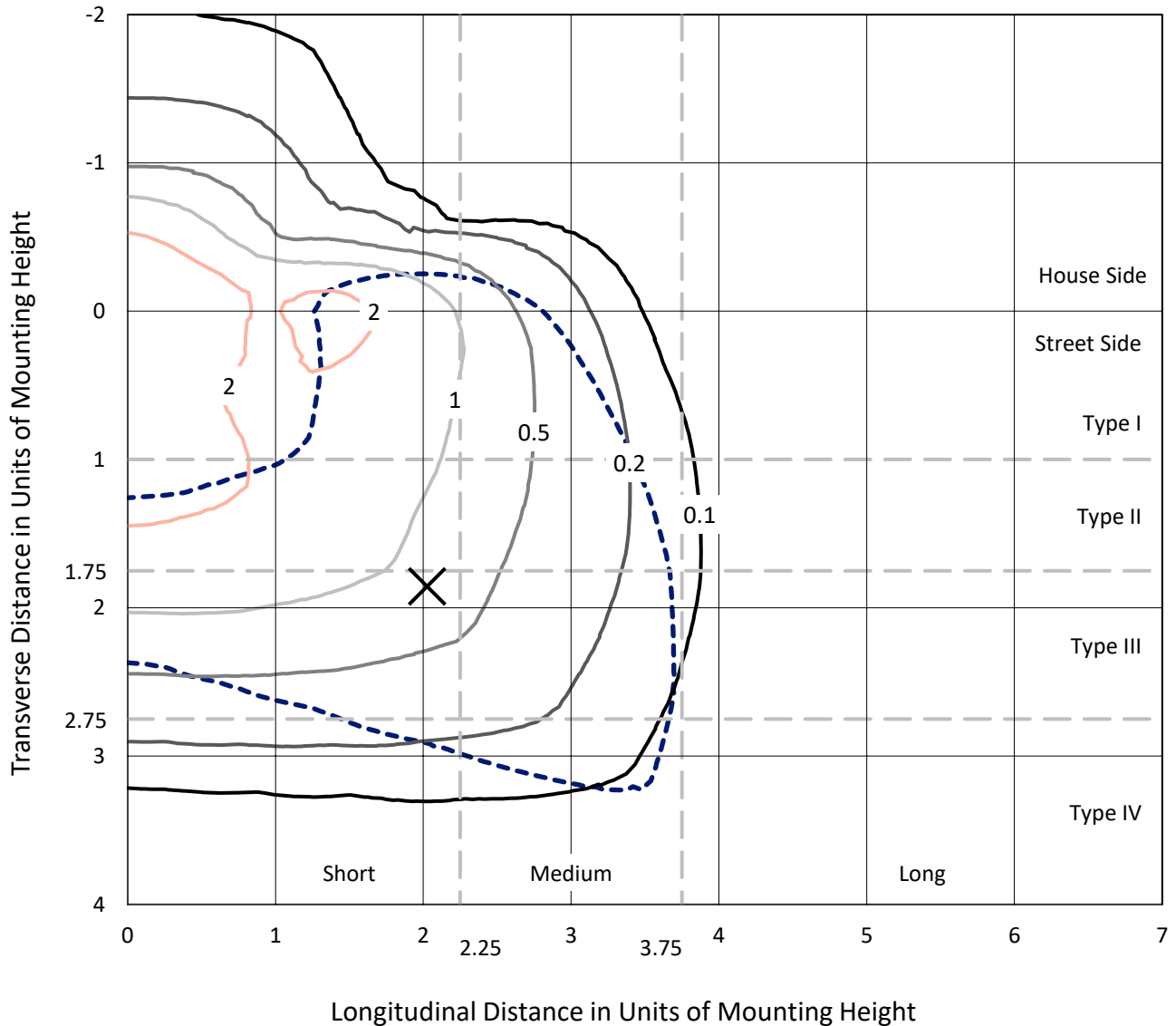
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

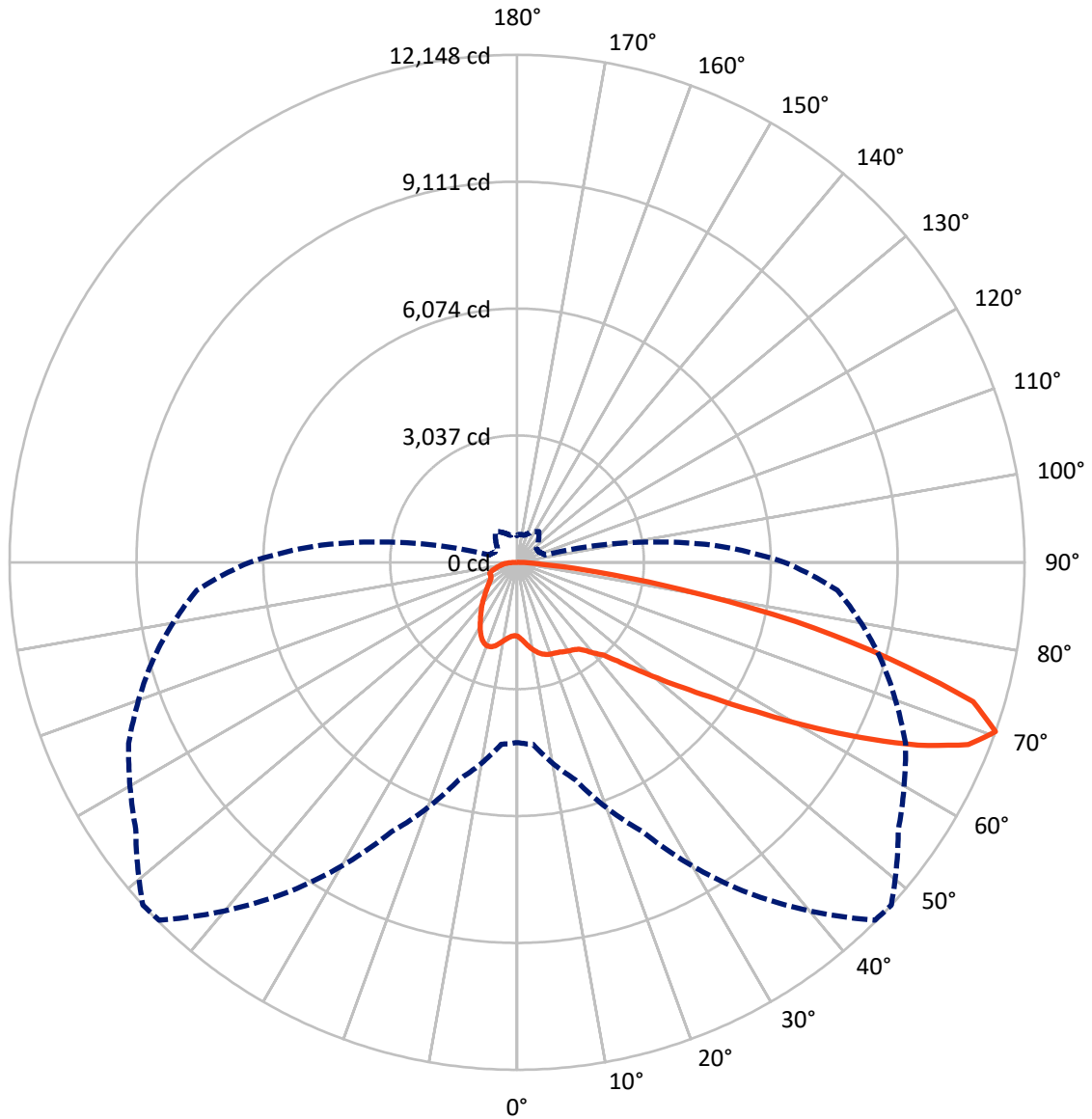
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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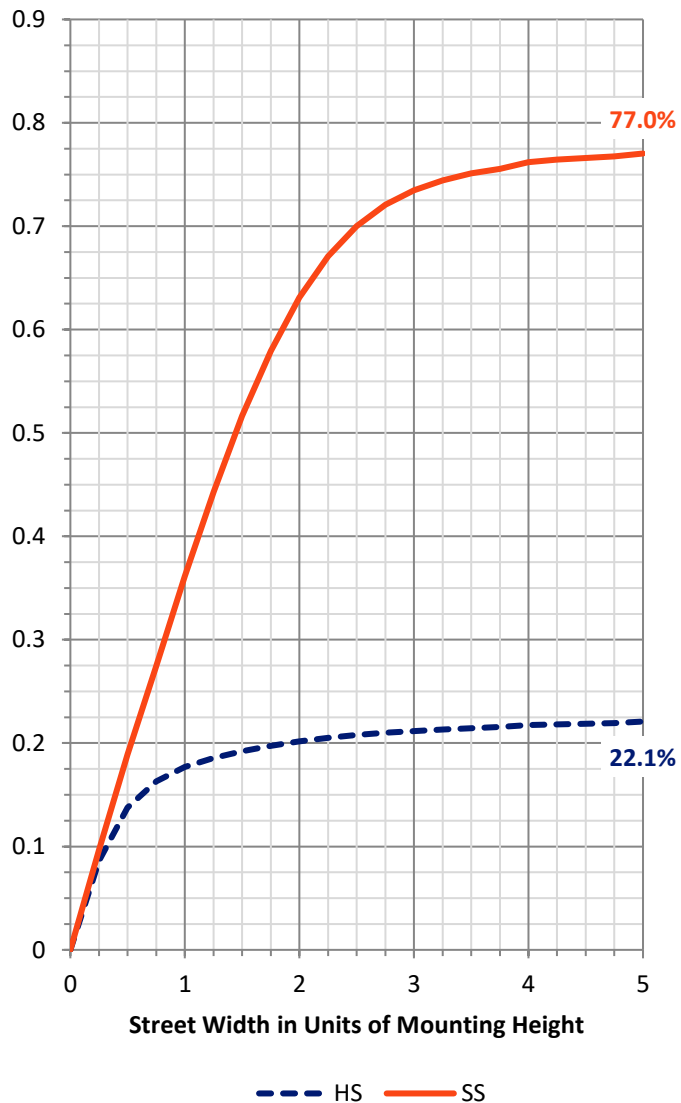
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3993.6   | 0.0    | 3993.6  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 13644.3  | 0.0    | 13644.3 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 17637.9  | 0.0    | 17637.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 182.5   | 1.0       |
| 10°-20°   | 610.2   | 3.5       |
| 20°-30°   | 1014.7  | 5.8       |
| 30°-40°   | 1438.2  | 8.2       |
| 40°-50°   | 2123.0  | 12.0      |
| 50°-60°   | 3677.2  | 20.8      |
| 60°-70°   | 5194.2  | 29.4      |
| 70°-80°   | 2985.9  | 16.9      |
| 80°-90°   | 412.0   | 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°    | 17637.9 | 100.0     |
| 0°-180°   | 17637.9 | 100.0     |

**Coefficient of Utilization**



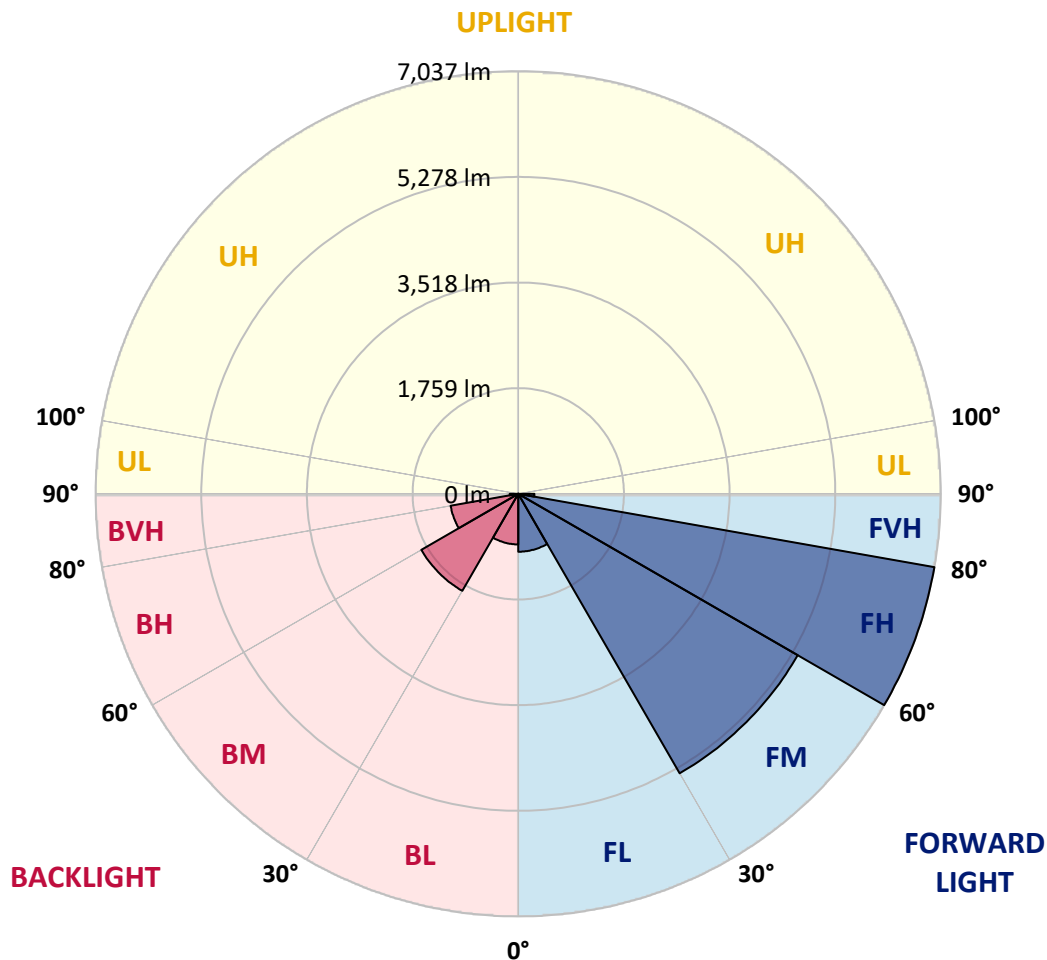
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 964.5  | 5.5       |                         |      |         |
| FM (30°-60°)   | 5373.9 | 30.5      |                         |      |         |
| FH (60°-80°)   | 7036.8 | 39.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 269.1  | 1.5       |                         |      | G3/500  |
| BL (0°-30°)    | 842.9  | 4.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1864.5 | 10.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 1143.3 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 142.9  | 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°    | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6  | 1770.6  | 1770.6  | 1770.6  | 1770.6  | 1770.6 | 1770.6  |
| 2.5°  | 1884.8 | 1878.3 | 1877.3 | 1863.1 | 1855.6  | 1841.4  | 1835.7  | 1822.5  | 1806.5  | 1790.5 | 1775.4  |
| 5°    | 2033.0 | 2033.0 | 2026.4 | 2006.6 | 1975.4  | 1943.3  | 1929.2  | 1903.7  | 1858.4  | 1821.6 | 1790.5  |
| 7.5°  | 2185.0 | 2186.8 | 2173.6 | 2144.4 | 2100.0  | 2048.1  | 2034.9  | 1997.1  | 1933.0  | 1879.2 | 1832.9  |
| 10°   | 2316.2 | 2316.2 | 2298.3 | 2258.6 | 2202.9  | 2146.3  | 2133.0  | 2090.6  | 2018.9  | 1951.9 | 1891.4  |
| 12.5° | 2416.2 | 2416.2 | 2392.6 | 2340.7 | 2280.3  | 2229.4  | 2214.2  | 2173.6  | 2106.7  | 2032.0 | 1955.6  |
| 15°   | 2481.3 | 2476.6 | 2450.2 | 2391.7 | 2333.2  | 2288.8  | 2278.4  | 2244.5  | 2183.1  | 2107.6 | 2021.7  |
| 17.5° | 2484.1 | 2482.3 | 2456.8 | 2407.7 | 2356.8  | 2326.5  | 2320.0  | 2297.3  | 2249.2  | 2177.4 | 2086.8  |
| 20°   | 2429.4 | 2433.2 | 2416.2 | 2381.3 | 2356.8  | 2343.5  | 2340.7  | 2333.2  | 2299.2  | 2232.2 | 2141.6  |
| 22.5° | 2370.9 | 2377.5 | 2361.4 | 2342.6 | 2340.7  | 2353.9  | 2355.8  | 2357.7  | 2336.0  | 2270.9 | 2187.8  |
| 25°   | 2356.8 | 2361.4 | 2345.4 | 2328.4 | 2338.8  | 2373.7  | 2381.3  | 2388.9  | 2371.9  | 2317.1 | 2242.5  |
| 27.5° | 2428.5 | 2424.7 | 2393.6 | 2356.8 | 2363.3  | 2410.5  | 2421.0  | 2429.4  | 2421.0  | 2373.7 | 2310.5  |
| 30°   | 2631.4 | 2619.1 | 2556.8 | 2449.2 | 2415.2  | 2448.3  | 2458.7  | 2482.3  | 2482.3  | 2447.3 | 2384.2  |
| 32.5° | 2971.2 | 2947.6 | 2833.4 | 2622.0 | 2504.0  | 2484.1  | 2494.6  | 2533.2  | 2553.0  | 2525.7 | 2456.8  |
| 35°   | 3383.7 | 3359.1 | 3195.8 | 2911.7 | 2666.3  | 2555.9  | 2553.0  | 2596.5  | 2649.4  | 2588.0 | 2498.3  |
| 37.5° | 3797.9 | 3772.5 | 3576.2 | 3257.2 | 2903.2  | 2706.9  | 2689.9  | 2705.0  | 2727.7  | 2615.4 | 2555.9  |
| 40°   | 4212.3 | 4182.1 | 4010.4 | 3643.2 | 3193.0  | 2907.0  | 2862.6  | 2794.7  | 2785.2  | 2705.0 | 2667.3  |
| 42.5° | 4622.9 | 4595.5 | 4508.7 | 4076.4 | 3540.3  | 3102.4  | 3034.4  | 2917.4  | 2953.2  | 2905.1 | 2872.0  |
| 45°   | 5037.2 | 5039.2 | 4946.6 | 4562.5 | 3959.4  | 3462.9  | 3371.4  | 3188.3  | 3273.2  | 3255.2 | 3274.1  |
| 47.5° | 5404.3 | 5399.6 | 5366.6 | 5034.4 | 4479.5  | 3927.3  | 3809.3  | 3596.9  | 3742.3  | 3808.4 | 3952.7  |
| 50°   | 5760.2 | 5757.4 | 5759.3 | 5569.6 | 5083.5  | 4479.5  | 4349.2  | 4126.4  | 4453.9  | 4683.3 | 4941.9  |
| 52.5° | 6269.9 | 6285.9 | 6171.7 | 6121.7 | 5817.8  | 5131.6  | 4988.2  | 4757.8  | 5294.9  | 5656.4 | 6161.3  |
| 55°   | 6781.4 | 6768.3 | 6678.5 | 6730.4 | 6586.0  | 5903.7  | 5753.6  | 5570.5  | 6231.2  | 6626.6 | 7385.5  |
| 57.5° | 7082.5 | 7087.2 | 7178.8 | 7432.7 | 7534.6  | 6866.4  | 6730.4  | 6588.9  | 7283.5  | 7563.9 | 8474.6  |
| 60°   | 7353.4 | 7375.1 | 7638.4 | 8117.9 | 8394.5  | 8049.0  | 7928.2  | 7790.4  | 8249.1  | 8360.5 | 9420.4  |
| 62.5° | 7438.3 | 7505.4 | 7965.0 | 8682.3 | 9232.6  | 9383.6  | 9233.5  | 8929.6  | 9168.4  | 9125.0 | 10061.2 |
| 65°   | 7014.6 | 7106.1 | 7930.1 | 8893.7 | 9981.1  | 10650.2 | 10554.8 | 9990.5  | 9951.8  | 9690.3 | 10166.0 |
| 67.5° | 5899.0 | 5990.5 | 7048.6 | 8450.1 | 10290.6 | 11747.0 | 11651.6 | 10764.4 | 10427.4 | 9743.2 | 9373.2  |
| 70°   | 4316.1 | 4373.7 | 5385.5 | 7114.6 | 9668.6  | 12115.0 | 12148.1 | 11141.9 | 10257.5 | 9024.9 | 7696.0  |
| 72.5° | 2487.0 | 2614.4 | 3323.2 | 5005.2 | 7898.9  | 11184.4 | 11413.8 | 10356.7 | 9183.5  | 7528.9 | 5380.8  |
| 75°   | 1069.3 | 1072.2 | 1536.6 | 2760.7 | 5349.6  | 8990.0  | 9211.8  | 8585.1  | 7211.8  | 5206.2 | 2873.1  |
| 77.5° | 508.7  | 518.2  | 675.8  | 1232.7 | 2944.8  | 6211.4  | 6809.8  | 6065.0  | 4612.5  | 2501.1 | 1085.4  |
| 80°   | 330.3  | 336.9  | 413.4  | 611.6  | 1444.1  | 3601.6  | 4018.8  | 3498.8  | 2034.9  | 893.8  | 468.2   |
| 82.5° | 200.1  | 202.0  | 276.6  | 373.7  | 794.7   | 1630.9  | 1922.6  | 1518.6  | 868.3   | 535.2  | 275.6   |
| 85°   | 121.8  | 122.7  | 168.0  | 231.2  | 482.3   | 563.4   | 578.6   | 573.9   | 509.7   | 350.2  | 147.2   |
| 87.5° | 58.5   | 60.4   | 86.8   | 109.5  | 189.7   | 174.6   | 165.1   | 191.6   | 240.7   | 188.8  | 63.3    |
| 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°    | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5°  | 1768.7 | 1765.9 | 1759.3 | 1756.5 | 1754.5 | 1755.6 | 1754.5 | 1754.5 | 1755.6 | 1755.6 | 1755.6 |
| 5°    | 1777.3 | 1772.6 | 1762.1 | 1762.1 | 1767.8 | 1781.0 | 1793.3 | 1802.7 | 1813.1 | 1812.2 | 1812.2 |
| 7.5°  | 1814.1 | 1805.5 | 1793.3 | 1797.1 | 1811.2 | 1832.0 | 1853.7 | 1874.4 | 1895.3 | 1897.1 | 1896.2 |
| 10°   | 1867.8 | 1859.3 | 1846.2 | 1850.9 | 1873.5 | 1904.6 | 1932.1 | 1962.2 | 1984.9 | 1991.5 | 1989.6 |
| 12.5° | 1929.2 | 1912.2 | 1900.9 | 1914.1 | 1950.0 | 1991.5 | 2017.9 | 2040.6 | 2056.6 | 2066.0 | 2062.3 |
| 15°   | 1991.5 | 1975.4 | 1962.2 | 1989.6 | 2033.0 | 2071.7 | 2084.9 | 2088.7 | 2091.5 | 2100.9 | 2099.1 |
| 17.5° | 2051.9 | 2030.2 | 2025.5 | 2061.3 | 2102.8 | 2119.8 | 2112.3 | 2096.2 | 2084.0 | 2091.5 | 2090.6 |
| 20°   | 2105.7 | 2088.7 | 2086.8 | 2122.7 | 2138.7 | 2122.7 | 2090.6 | 2062.3 | 2040.6 | 2042.5 | 2041.5 |
| 22.5° | 2156.6 | 2143.5 | 2145.3 | 2160.5 | 2134.9 | 2080.2 | 2027.3 | 1988.7 | 1965.1 | 1969.8 | 1972.6 |
| 25°   | 2213.3 | 2200.1 | 2204.8 | 2180.3 | 2096.2 | 2001.0 | 1924.5 | 1891.4 | 1882.0 | 1891.4 | 1898.1 |
| 27.5° | 2286.9 | 2278.4 | 2275.6 | 2181.2 | 2027.3 | 1883.9 | 1797.1 | 1784.8 | 1793.3 | 1814.1 | 1824.4 |
| 30°   | 2366.1 | 2366.1 | 2351.1 | 2165.2 | 1933.0 | 1743.3 | 1667.8 | 1669.7 | 1698.9 | 1728.2 | 1738.6 |
| 32.5° | 2442.6 | 2458.7 | 2411.5 | 2121.7 | 1811.2 | 1606.4 | 1548.9 | 1550.7 | 1576.2 | 1612.0 | 1621.5 |
| 35°   | 2505.8 | 2552.1 | 2463.4 | 2042.5 | 1667.8 | 1491.2 | 1447.8 | 1422.3 | 1423.3 | 1450.7 | 1458.3 |
| 37.5° | 2592.7 | 2678.6 | 2493.6 | 1924.5 | 1514.9 | 1393.1 | 1344.0 | 1299.6 | 1270.4 | 1259.1 | 1259.1 |
| 40°   | 2743.7 | 2870.2 | 2501.1 | 1749.8 | 1370.4 | 1299.6 | 1229.8 | 1176.9 | 1120.3 | 1069.3 | 1059.9 |
| 42.5° | 2999.5 | 3159.0 | 2486.0 | 1548.9 | 1240.2 | 1196.8 | 1128.9 | 1063.7 | 985.3  | 913.6  | 908.0  |
| 45°   | 3452.6 | 3534.6 | 2445.5 | 1340.3 | 1124.1 | 1097.7 | 1031.6 | 960.8  | 877.7  | 813.6  | 808.8  |
| 47.5° | 4178.3 | 4062.3 | 2391.7 | 1155.2 | 1018.4 | 1010.9 | 959.9  | 877.7  | 794.7  | 750.3  | 745.7  |
| 50°   | 5238.3 | 4892.8 | 2384.2 | 1021.2 | 933.4  | 937.3  | 895.7  | 820.2  | 747.5  | 710.7  | 705.0  |
| 52.5° | 6514.3 | 5896.1 | 2434.1 | 926.8  | 858.9  | 873.0  | 852.3  | 782.5  | 718.2  | 687.1  | 681.4  |
| 55°   | 7752.6 | 6798.4 | 2464.3 | 853.2  | 789.0  | 815.5  | 818.3  | 759.8  | 701.3  | 670.1  | 666.3  |
| 57.5° | 8757.9 | 7478.0 | 2330.3 | 786.2  | 728.7  | 769.2  | 790.0  | 746.6  | 692.8  | 669.2  | 665.4  |
| 60°   | 9457.2 | 7798.9 | 1949.0 | 726.8  | 684.3  | 732.4  | 779.6  | 747.5  | 713.5  | 716.4  | 718.2  |
| 62.5° | 9679.9 | 7656.3 | 1462.0 | 682.4  | 654.0  | 720.1  | 796.6  | 786.2  | 751.3  | 773.0  | 776.7  |
| 65°   | 9310.9 | 7067.4 | 1059.9 | 647.5  | 627.7  | 728.7  | 847.6  | 814.6  | 738.1  | 754.1  | 754.1  |
| 67.5° | 8075.4 | 6088.7 | 824.9  | 615.4  | 597.4  | 744.7  | 898.5  | 811.7  | 706.9  | 725.8  | 708.8  |
| 70°   | 6405.8 | 4709.7 | 687.1  | 579.5  | 565.3  | 721.1  | 903.3  | 782.5  | 670.1  | 673.9  | 641.8  |
| 72.5° | 4251.0 | 3096.7 | 590.9  | 545.5  | 516.3  | 648.4  | 864.6  | 744.7  | 634.2  | 612.5  | 580.4  |
| 75°   | 2083.0 | 1544.1 | 515.4  | 503.1  | 452.1  | 564.4  | 811.7  | 708.8  | 595.5  | 561.6  | 543.6  |
| 77.5° | 807.0  | 656.9  | 439.8  | 449.3  | 393.6  | 497.4  | 741.8  | 657.9  | 544.6  | 498.4  | 484.2  |
| 80°   | 391.7  | 372.8  | 360.6  | 374.7  | 323.8  | 423.8  | 677.7  | 613.5  | 497.4  | 446.5  | 425.6  |
| 82.5° | 243.5  | 230.3  | 276.6  | 291.7  | 249.2  | 387.0  | 642.8  | 575.7  | 437.9  | 370.0  | 353.0  |
| 85°   | 123.6  | 132.2  | 185.0  | 199.1  | 178.4  | 307.7  | 529.5  | 432.3  | 316.2  | 262.4  | 264.3  |
| 87.5° | 47.2   | 63.3   | 97.2   | 104.8  | 95.3   | 162.3  | 291.7  | 252.0  | 203.0  | 137.8  | 127.4  |
| 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)