

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: P318406

Luminaire Tested: **GAN-SA2C-740-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14475 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

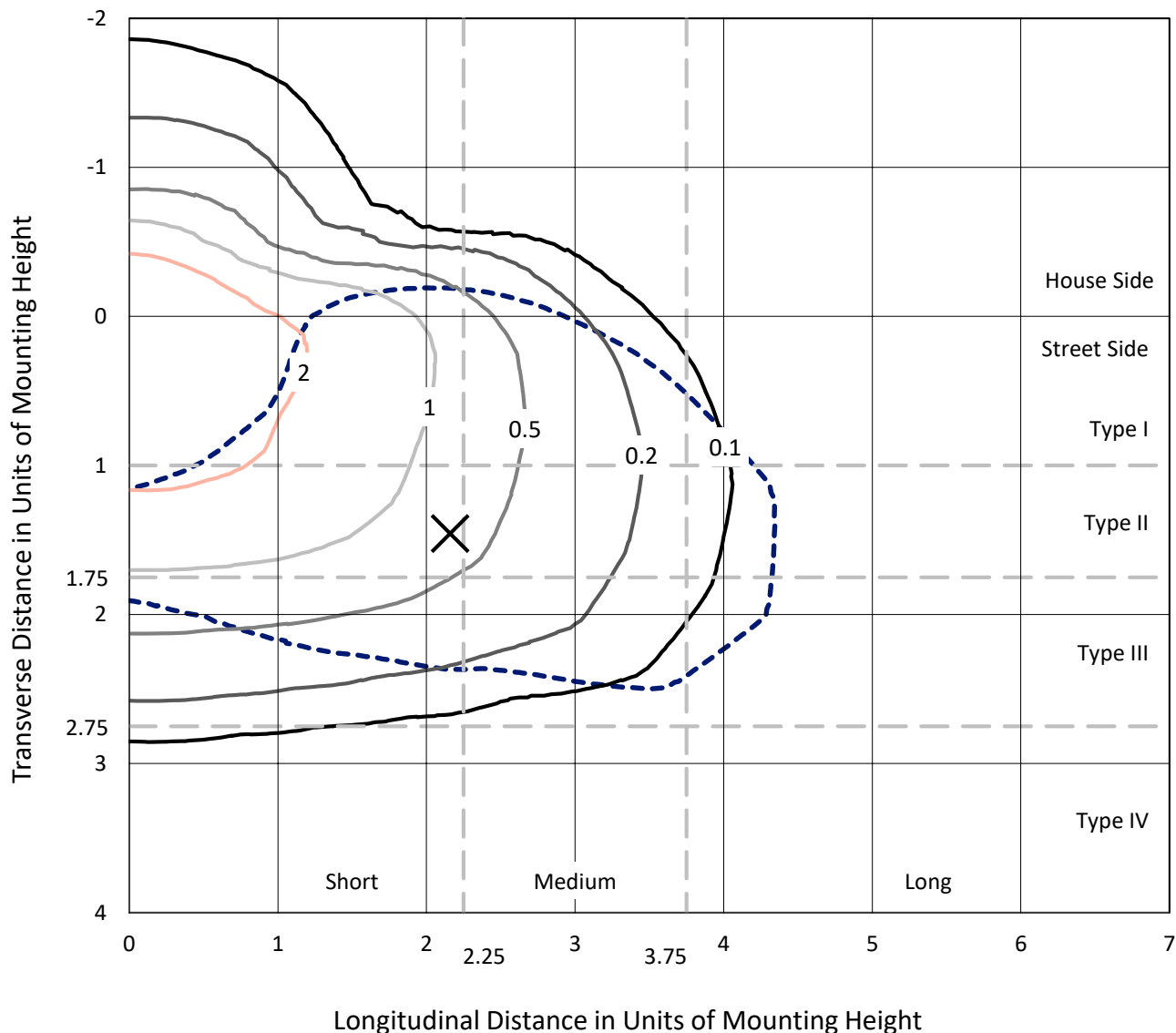
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

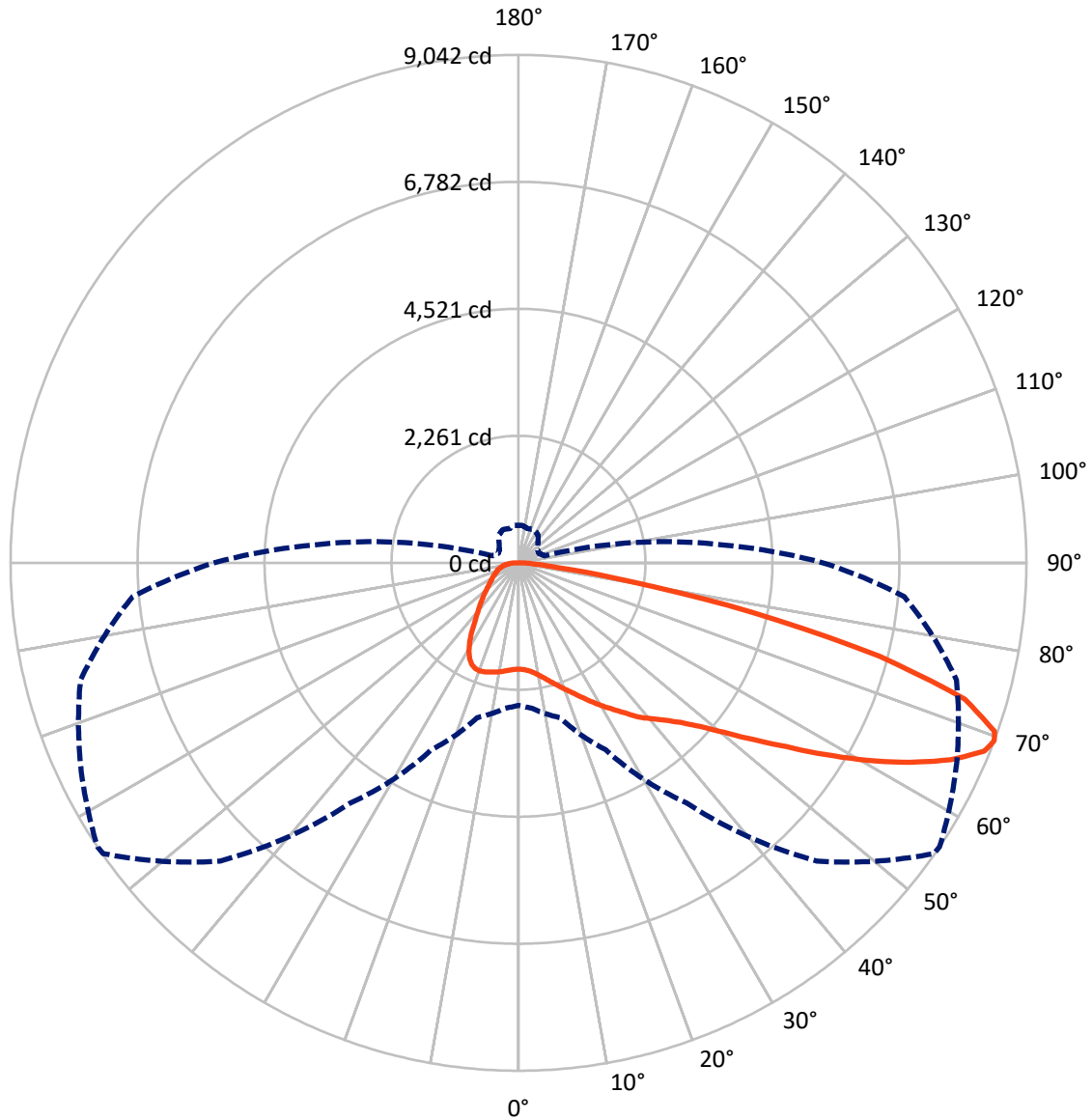
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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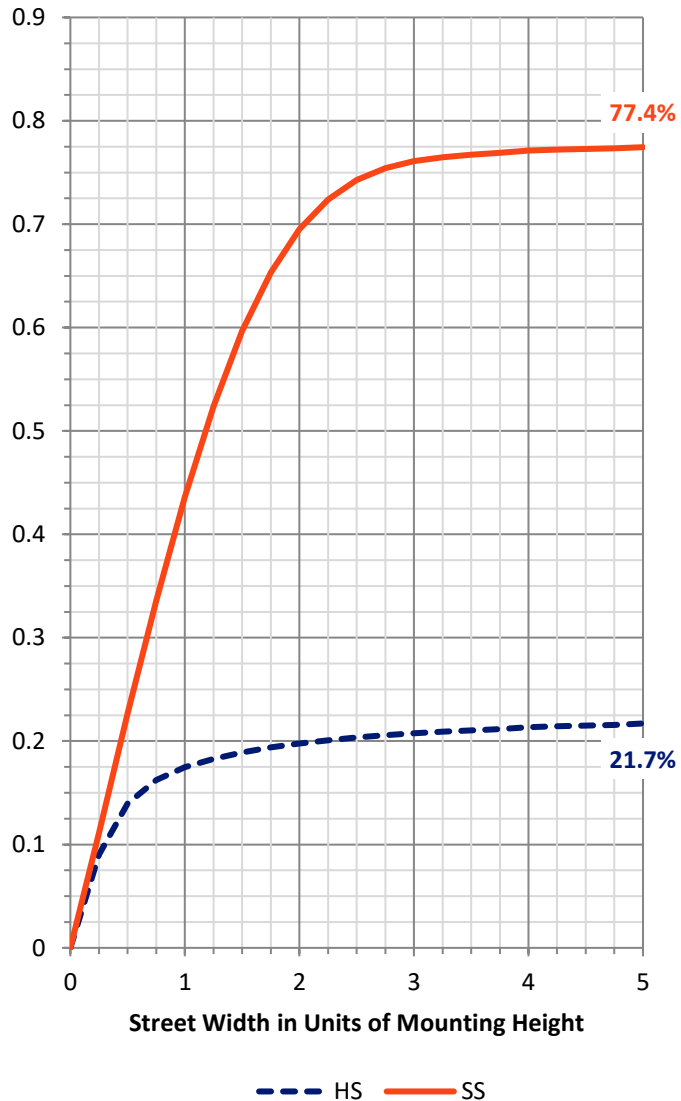
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3223.6   | 0.0    | 3223.6  |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 11251.4  | 0.0    | 11251.4 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 14475.0  | 0.0    | 14475.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 185.9   | 1.3       |
| 10°-20°   | 597.7   | 4.1       |
| 20°-30°   | 1043.3  | 7.2       |
| 30°-40°   | 1498.6  | 10.4      |
| 40°-50°   | 2074.0  | 14.3      |
| 50°-60°   | 3038.8  | 21.0      |
| 60°-70°   | 3704.8  | 25.6      |
| 70°-80°   | 2048.3  | 14.2      |
| 80°-90°   | 283.7   | 2.0       |
| 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°    | 14475.0 | 100.0     |
| 0°-180°   | 14475.0 | 100.0     |

**Coefficient of Utilization**

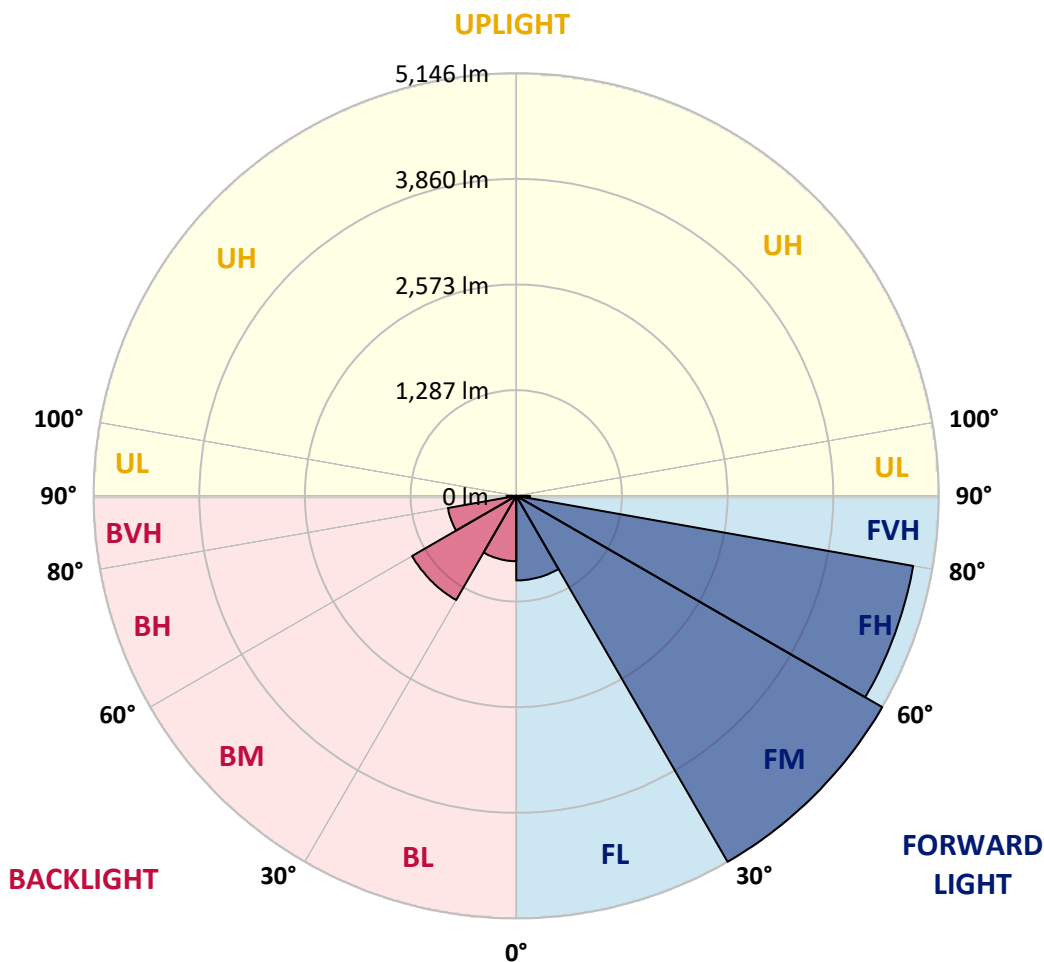


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1030.2 | 7.1       |                         |      |         |
| FM (30°-60°)   | 5146.4 | 35.6      |                         |      |         |
| FH (60°-80°)   | 4907.8 | 33.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 167.1  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 796.6  | 5.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1465.0 | 10.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 845.3  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 116.6  | 0.8       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 |
| 2.5°  | 1904.4 | 1906.4 | 1904.9 | 1908.8 | 1904.4 | 1907.3 | 1904.9 | 1904.9 | 1903.4 | 1898.9 | 1893.9 |
| 5°    | 1934.3 | 1938.3 | 1935.8 | 1939.8 | 1934.3 | 1935.3 | 1930.8 | 1930.8 | 1926.3 | 1916.8 | 1906.8 |
| 7.5°  | 1981.1 | 1985.6 | 1983.6 | 1987.6 | 1980.2 | 1980.2 | 1974.2 | 1973.7 | 1964.7 | 1949.2 | 1937.8 |
| 10°   | 2037.0 | 2043.0 | 2041.0 | 2047.0 | 2041.0 | 2043.0 | 2037.0 | 2037.0 | 2025.0 | 2003.1 | 1988.6 |
| 12.5° | 2118.3 | 2125.8 | 2120.3 | 2119.8 | 2117.3 | 2121.3 | 2116.3 | 2115.3 | 2104.3 | 2074.4 | 2054.5 |
| 15°   | 2227.0 | 2235.0 | 2223.5 | 2222.5 | 2208.5 | 2207.0 | 2207.0 | 2205.5 | 2198.6 | 2162.7 | 2129.7 |
| 17.5° | 2352.1 | 2354.6 | 2344.7 | 2328.7 | 2310.8 | 2299.3 | 2297.8 | 2301.8 | 2301.8 | 2259.9 | 2207.5 |
| 20°   | 2474.8 | 2479.3 | 2471.3 | 2453.4 | 2430.4 | 2413.5 | 2401.5 | 2409.5 | 2409.0 | 2359.1 | 2284.8 |
| 22.5° | 2608.5 | 2618.9 | 2607.0 | 2584.0 | 2557.1 | 2538.1 | 2517.2 | 2524.2 | 2524.7 | 2463.3 | 2360.6 |
| 25°   | 2781.5 | 2772.0 | 2764.5 | 2732.1 | 2693.7 | 2674.3 | 2654.8 | 2661.8 | 2659.8 | 2575.5 | 2438.9 |
| 27.5° | 2934.6 | 2936.6 | 2926.6 | 2892.2 | 2847.8 | 2804.9 | 2803.9 | 2808.4 | 2800.9 | 2692.2 | 2512.7 |
| 30°   | 3112.6 | 3113.6 | 3099.6 | 3068.7 | 3020.3 | 2965.0 | 2952.0 | 2959.5 | 2943.5 | 2802.9 | 2590.5 |
| 32.5° | 3289.6 | 3294.6 | 3279.1 | 3241.7 | 3202.8 | 3135.5 | 3109.6 | 3114.6 | 3074.7 | 2916.1 | 2670.8 |
| 35°   | 3444.7 | 3451.7 | 3446.7 | 3421.8 | 3379.4 | 3321.5 | 3290.6 | 3287.6 | 3238.3 | 3054.7 | 2777.0 |
| 37.5° | 3602.8 | 3609.3 | 3603.8 | 3582.8 | 3565.9 | 3504.5 | 3488.1 | 3488.1 | 3402.3 | 3196.4 | 2912.1 |
| 40°   | 3765.3 | 3775.3 | 3768.8 | 3739.9 | 3725.4 | 3697.5 | 3658.1 | 3648.6 | 3555.9 | 3366.4 | 3132.5 |
| 42.5° | 3916.4 | 3929.4 | 3955.3 | 3938.4 | 3908.9 | 3912.9 | 3833.6 | 3828.7 | 3760.8 | 3617.7 | 3409.3 |
| 45°   | 4130.8 | 4149.8 | 4193.7 | 4180.7 | 4174.7 | 4152.8 | 4058.5 | 4054.0 | 4028.1 | 3955.8 | 3752.9 |
| 47.5° | 4364.7 | 4390.6 | 4469.9 | 4472.4 | 4536.7 | 4495.4 | 4367.2 | 4351.7 | 4357.7 | 4360.7 | 4172.2 |
| 50°   | 4580.1 | 4608.6 | 4738.7 | 4800.0 | 4951.6 | 4960.6 | 4755.7 | 4741.7 | 4765.1 | 4833.9 | 4660.9 |
| 52.5° | 4752.2 | 4788.1 | 4950.6 | 5140.1 | 5399.9 | 5473.7 | 5233.9 | 5223.4 | 5240.8 | 5359.5 | 5213.4 |
| 55°   | 4878.3 | 4917.2 | 5094.2 | 5439.3 | 5854.2 | 5984.3 | 5784.4 | 5774.4 | 5785.4 | 5936.5 | 5814.3 |
| 57.5° | 4907.7 | 4917.2 | 5174.0 | 5640.8 | 6237.7 | 6550.3 | 6458.1 | 6438.1 | 6384.3 | 6515.9 | 6477.5 |
| 60°   | 4769.6 | 4807.5 | 5108.2 | 5711.6 | 6534.3 | 7108.3 | 7162.2 | 7137.2 | 6986.1 | 7093.8 | 7062.9 |
| 62.5° | 4489.4 | 4557.2 | 4862.4 | 5603.9 | 6650.5 | 7564.1 | 7852.8 | 7822.9 | 7562.6 | 7632.4 | 7483.8 |
| 65°   | 4031.6 | 4060.5 | 4381.2 | 5232.4 | 6502.9 | 7855.8 | 8468.6 | 8453.7 | 8126.1 | 8016.8 | 7561.6 |
| 67.5° | 3212.8 | 3267.2 | 3539.4 | 4456.0 | 5899.1 | 7821.4 | 8944.8 | 8943.3 | 8494.1 | 8159.5 | 7285.8 |
| 69°   | 2538.1 | 2594.5 | 2853.8 | 3670.6 | 5219.9 | 7506.7 | 9024.6 | 9042.1 | 8597.8 | 8072.7 | 6891.9 |
| 70°   | 2023.5 | 2088.9 | 2266.9 | 3091.6 | 4617.0 | 7091.8 | 8958.3 | 8989.7 | 8577.8 | 7929.6 | 6528.4 |
| 72.5° | 861.2  | 914.0  | 1040.7 | 1593.7 | 2813.9 | 5295.7 | 8190.9 | 8309.6 | 8115.6 | 7257.4 | 5395.4 |
| 75°   | 376.0  | 392.4  | 449.8  | 649.7  | 1249.1 | 2882.2 | 6416.7 | 6636.1 | 6939.3 | 6134.4 | 4019.1 |
| 77.5° | 275.3  | 282.2  | 313.7  | 381.5  | 560.5  | 1088.6 | 4126.4 | 4254.0 | 5004.5 | 4463.9 | 2465.3 |
| 80°   | 212.9  | 217.9  | 242.3  | 280.2  | 366.0  | 440.3  | 1881.9 | 1991.6 | 2813.9 | 2292.8 | 1026.7 |
| 82.5° | 169.5  | 173.0  | 190.0  | 206.4  | 252.8  | 266.8  | 624.8  | 693.1  | 1038.7 | 633.3  | 271.8  |
| 85°   | 157.6  | 161.6  | 167.5  | 150.6  | 162.1  | 156.6  | 270.3  | 282.7  | 313.7  | 248.8  | 113.7  |
| 87.5° | 71.3   | 84.3   | 166.1  | 117.2  | 86.3   | 68.8   | 110.7  | 115.7  | 130.1  | 130.6  | 50.4   |
| 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°    | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 | 1892.4 |
| 2.5°  | 1896.9 | 1895.4 | 1897.9 | 1891.9 | 1899.4 | 1898.9 | 1896.4 | 1897.4 | 1902.4 | 1901.9 | 1902.4 |
| 5°    | 1908.3 | 1907.3 | 1910.3 | 1905.9 | 1914.8 | 1917.8 | 1918.3 | 1922.8 | 1928.3 | 1929.8 | 1929.8 |
| 7.5°  | 1937.3 | 1937.3 | 1938.8 | 1932.8 | 1938.8 | 1938.3 | 1935.8 | 1940.3 | 1945.7 | 1946.2 | 1945.7 |
| 10°   | 1987.1 | 1987.6 | 1985.1 | 1969.7 | 1964.7 | 1951.2 | 1938.8 | 1939.3 | 1946.2 | 1951.7 | 1953.2 |
| 12.5° | 2050.0 | 2048.0 | 2037.0 | 2008.6 | 1987.6 | 1960.2 | 1947.2 | 1946.7 | 1953.7 | 1958.2 | 1959.7 |
| 15°   | 2121.8 | 2116.3 | 2087.9 | 2041.5 | 2004.6 | 1977.7 | 1956.7 | 1951.7 | 1947.7 | 1942.8 | 1943.3 |
| 17.5° | 2189.6 | 2177.1 | 2129.7 | 2065.4 | 2026.5 | 1990.6 | 1950.2 | 1917.8 | 1895.4 | 1882.4 | 1878.4 |
| 20°   | 2258.4 | 2234.0 | 2165.7 | 2087.9 | 2038.5 | 1973.2 | 1895.4 | 1829.6 | 1788.7 | 1769.7 | 1766.2 |
| 22.5° | 2321.2 | 2281.8 | 2199.1 | 2111.3 | 2029.0 | 1914.3 | 1792.2 | 1696.4 | 1639.6 | 1614.1 | 1616.1 |
| 25°   | 2382.6 | 2327.7 | 2234.0 | 2127.8 | 1981.1 | 1810.6 | 1648.5 | 1530.9 | 1465.0 | 1436.6 | 1435.6 |
| 27.5° | 2436.4 | 2374.1 | 2271.9 | 2114.3 | 1891.9 | 1663.0 | 1478.5 | 1363.8 | 1309.0 | 1284.5 | 1280.5 |
| 30°   | 2498.3 | 2432.4 | 2322.2 | 2062.9 | 1761.2 | 1492.5 | 1312.5 | 1231.7 | 1192.8 | 1168.3 | 1163.9 |
| 32.5° | 2573.5 | 2511.7 | 2363.6 | 1969.7 | 1594.2 | 1314.4 | 1182.8 | 1126.5 | 1091.1 | 1063.6 | 1058.6 |
| 35°   | 2683.3 | 2616.4 | 2374.1 | 1836.0 | 1410.7 | 1173.8 | 1087.6 | 1029.7 | 981.8  | 946.4  | 943.0  |
| 37.5° | 2820.9 | 2747.6 | 2350.2 | 1663.0 | 1232.7 | 1082.6 | 1008.3 | 937.0  | 874.6  | 824.8  | 816.8  |
| 40°   | 3019.3 | 2908.6 | 2283.8 | 1463.5 | 1101.5 | 1012.3 | 931.0  | 849.7  | 772.4  | 714.1  | 702.6  |
| 42.5° | 3257.7 | 3097.6 | 2182.1 | 1265.1 | 1005.3 | 941.0  | 854.2  | 753.5  | 679.7  | 638.3  | 632.3  |
| 45°   | 3560.9 | 3294.1 | 2041.0 | 1091.6 | 910.5  | 869.7  | 771.4  | 678.7  | 632.8  | 602.4  | 597.4  |
| 47.5° | 3906.9 | 3514.5 | 1892.9 | 950.4  | 830.3  | 802.8  | 705.1  | 645.3  | 608.9  | 584.9  | 580.4  |
| 50°   | 4332.3 | 3763.3 | 1735.8 | 834.7  | 749.5  | 722.5  | 673.7  | 626.8  | 597.9  | 579.4  | 574.9  |
| 52.5° | 4812.0 | 4044.1 | 1622.6 | 743.5  | 682.7  | 663.2  | 657.2  | 616.8  | 593.4  | 579.4  | 574.9  |
| 55°   | 5328.6 | 4329.8 | 1500.4 | 666.7  | 624.8  | 630.3  | 646.3  | 617.8  | 601.9  | 584.9  | 578.4  |
| 57.5° | 5845.7 | 4625.0 | 1364.3 | 601.9  | 578.9  | 605.9  | 638.8  | 619.8  | 606.4  | 589.9  | 583.9  |
| 60°   | 6254.6 | 4812.0 | 1153.4 | 547.5  | 542.5  | 578.9  | 620.8  | 604.9  | 587.4  | 587.9  | 586.9  |
| 62.5° | 6445.6 | 4802.0 | 920.5  | 499.2  | 506.1  | 542.5  | 591.9  | 581.4  | 567.0  | 586.4  | 587.9  |
| 65°   | 6338.4 | 4562.7 | 716.6  | 455.3  | 467.2  | 504.6  | 562.0  | 570.0  | 574.9  | 612.3  | 617.3  |
| 67.5° | 5888.6 | 4096.9 | 555.0  | 416.9  | 431.8  | 478.7  | 565.0  | 620.8  | 627.3  | 666.7  | 666.2  |
| 69°   | 5423.4 | 3660.1 | 482.2  | 396.9  | 414.4  | 485.2  | 603.9  | 653.2  | 628.8  | 670.7  | 664.7  |
| 70°   | 5033.4 | 3314.5 | 443.3  | 383.5  | 406.4  | 496.7  | 629.8  | 652.7  | 621.3  | 657.2  | 647.3  |
| 72.5° | 3876.5 | 2384.6 | 376.0  | 358.5  | 379.5  | 475.2  | 637.3  | 638.3  | 603.9  | 610.8  | 593.9  |
| 75°   | 2658.8 | 1506.9 | 328.1  | 324.6  | 338.6  | 428.3  | 613.3  | 609.9  | 558.5  | 548.5  | 534.6  |
| 77.5° | 1466.0 | 765.4  | 278.7  | 292.2  | 301.7  | 379.5  | 557.5  | 552.5  | 510.1  | 489.2  | 484.2  |
| 80°   | 565.5  | 335.1  | 235.4  | 259.8  | 265.8  | 328.6  | 488.7  | 484.2  | 448.8  | 421.9  | 414.4  |
| 82.5° | 213.4  | 175.5  | 194.5  | 224.9  | 222.9  | 271.3  | 413.9  | 411.4  | 377.0  | 337.6  | 325.6  |
| 85°   | 98.7   | 105.2  | 154.1  | 185.5  | 171.0  | 201.0  | 331.1  | 335.6  | 293.7  | 246.8  | 246.8  |
| 87.5° | 41.9   | 58.8   | 109.2  | 140.1  | 115.2  | 135.6  | 242.8  | 231.9  | 212.9  | 147.6  | 138.6  |
| 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)