

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: P317716

Luminaire Tested: **GAN-SA2B-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10888 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

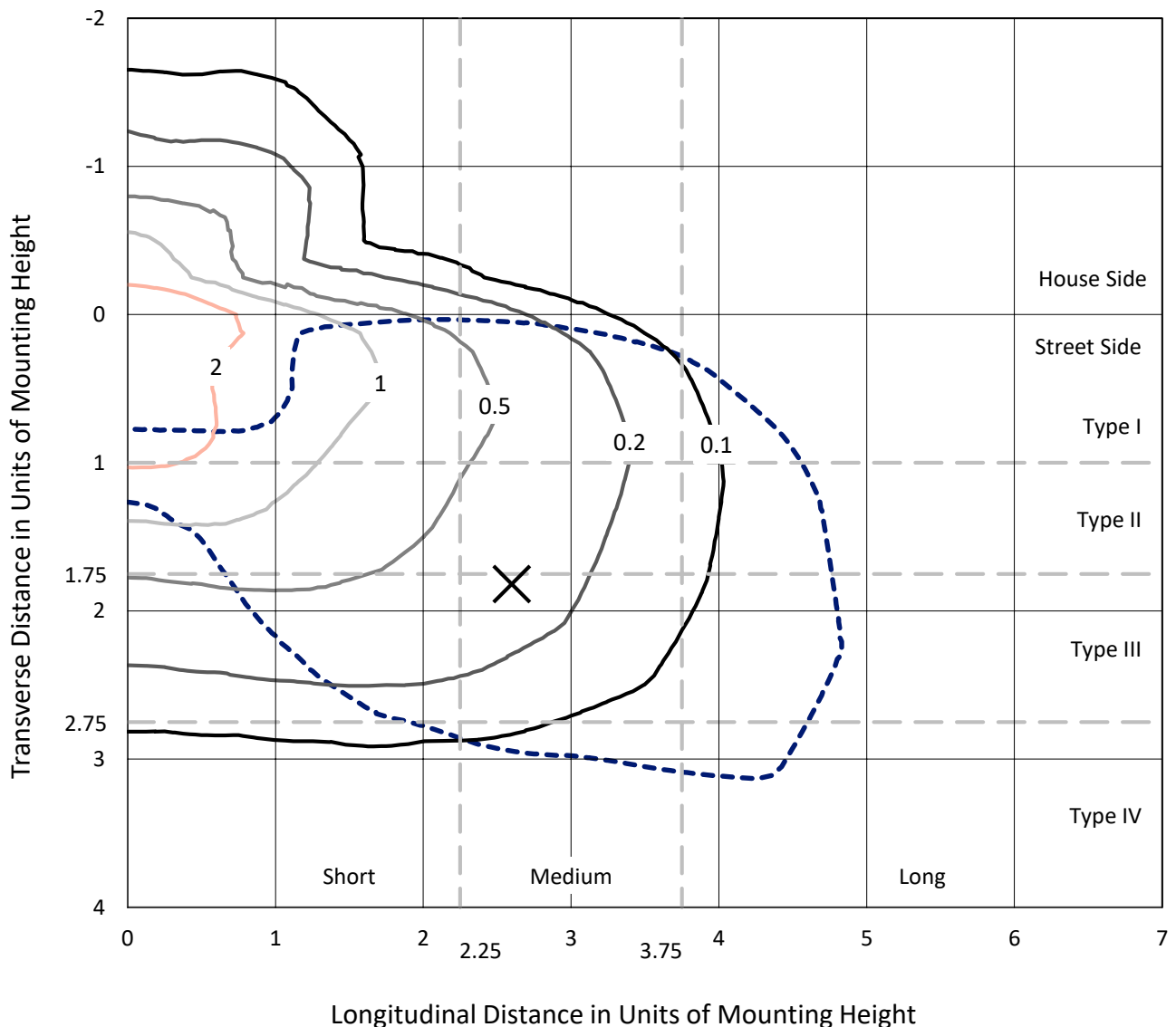
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

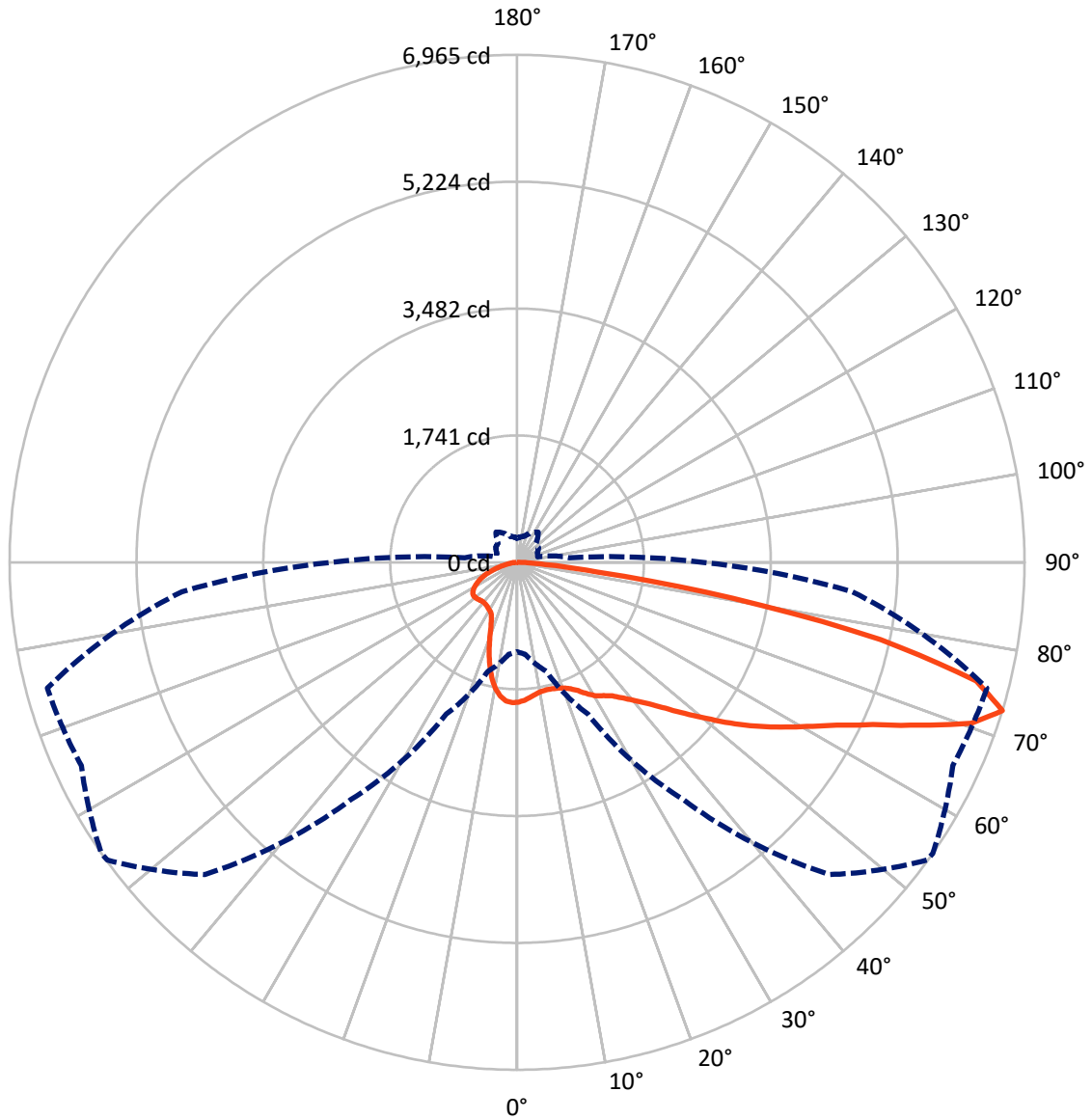
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2023.7   | 0.0    | 2023.7  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 8864.3   | 0.0    | 8864.3  |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 10888.0  | 0.0    | 10888.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 173.8   | 1.6       |
| 10°-20°   | 462.7   | 4.2       |
| 20°-30°   | 762.8   | 7.0       |
| 30°-40°   | 1128.4  | 10.4      |
| 40°-50°   | 1575.0  | 14.5      |
| 50°-60°   | 2050.7  | 18.8      |
| 60°-70°   | 2520.2  | 23.1      |
| 70°-80°   | 1975.5  | 18.1      |
| 80°-90°   | 239.1   | 2.2       |
| 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°    | 10888.0 | 100.0     |
| 0°-180°   | 10888.0 | 100.0     |

**Coefficient of Utilization**

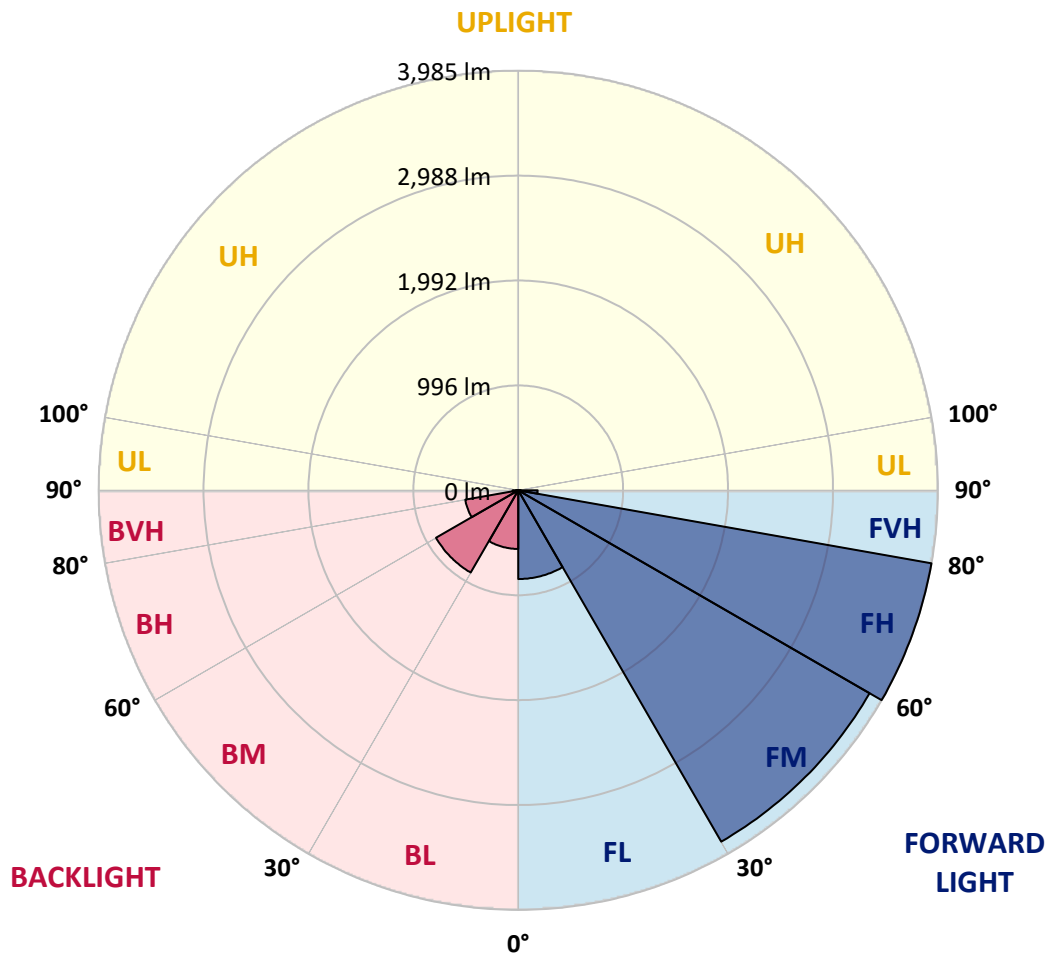


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 842.4  | 7.7       |                         |      |         |
| FM (30°-60°)   | 3852.4 | 35.4      |                         |      |         |
| FH (60°-80°)   | 3984.6 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 184.8  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 556.8  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 901.6  | 8.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 511.1  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 54.2   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 |
| 2.5°  | 1857.9 | 1853.5 | 1859.0 | 1866.7 | 1875.2 | 1886.6 | 1893.2 | 1896.1 | 1907.5 | 1912.0 | 1921.5 |
| 5°    | 1771.8 | 1769.6 | 1778.8 | 1792.1 | 1810.8 | 1837.3 | 1858.6 | 1862.7 | 1892.8 | 1914.2 | 1933.6 |
| 7.5°  | 1709.3 | 1709.3 | 1720.0 | 1735.8 | 1756.8 | 1792.4 | 1822.6 | 1828.1 | 1879.2 | 1925.2 | 1961.2 |
| 10°   | 1659.7 | 1661.5 | 1674.0 | 1692.8 | 1717.4 | 1755.3 | 1795.4 | 1801.6 | 1875.5 | 1950.9 | 2008.3 |
| 12.5° | 1626.6 | 1631.0 | 1642.4 | 1659.3 | 1689.8 | 1735.8 | 1786.5 | 1795.0 | 1883.3 | 1987.7 | 2064.9 |
| 15°   | 1647.5 | 1654.9 | 1656.0 | 1663.0 | 1679.9 | 1729.9 | 1791.7 | 1800.5 | 1899.8 | 2025.2 | 2129.3 |
| 17.5° | 1739.5 | 1742.0 | 1730.6 | 1715.9 | 1707.8 | 1739.8 | 1807.1 | 1816.3 | 1919.7 | 2062.4 | 2191.1 |
| 20°   | 1879.2 | 1877.7 | 1853.1 | 1813.4 | 1772.2 | 1777.4 | 1832.5 | 1842.1 | 1946.5 | 2095.1 | 2252.9 |
| 22.5° | 2055.7 | 2050.6 | 2012.7 | 1939.5 | 1869.3 | 1839.9 | 1877.0 | 1885.1 | 1987.0 | 2141.8 | 2319.1 |
| 25°   | 2269.8 | 2258.4 | 2208.4 | 2110.2 | 2006.8 | 1931.1 | 1943.9 | 1951.7 | 2045.8 | 2194.0 | 2379.7 |
| 27.5° | 2495.6 | 2484.2 | 2420.6 | 2301.8 | 2164.2 | 2046.2 | 2036.3 | 2042.9 | 2112.7 | 2232.6 | 2424.6 |
| 30°   | 2731.7 | 2719.5 | 2661.4 | 2528.3 | 2331.2 | 2165.3 | 2122.3 | 2124.9 | 2159.8 | 2253.6 | 2461.4 |
| 32.5° | 2968.9 | 2957.5 | 2892.4 | 2737.9 | 2512.5 | 2293.3 | 2184.5 | 2181.1 | 2188.1 | 2275.3 | 2502.9 |
| 35°   | 3209.4 | 3213.8 | 3137.7 | 2966.7 | 2713.3 | 2435.6 | 2258.0 | 2251.0 | 2235.6 | 2319.8 | 2561.8 |
| 37.5° | 3466.8 | 3463.9 | 3365.3 | 3186.6 | 2923.3 | 2590.1 | 2363.6 | 2362.4 | 2309.1 | 2404.0 | 2654.1 |
| 40°   | 3638.9 | 3640.8 | 3580.8 | 3411.6 | 3135.5 | 2761.1 | 2498.9 | 2496.3 | 2426.4 | 2530.1 | 2775.1 |
| 42.5° | 3706.2 | 3718.4 | 3733.8 | 3626.4 | 3357.6 | 2959.3 | 2660.3 | 2656.7 | 2590.1 | 2711.1 | 2917.4 |
| 45°   | 3711.0 | 3735.3 | 3830.9 | 3817.3 | 3582.7 | 3186.2 | 2866.6 | 2856.3 | 2808.5 | 2951.6 | 3087.3 |
| 47.5° | 3669.8 | 3694.8 | 3853.7 | 3930.9 | 3783.8 | 3425.6 | 3107.9 | 3099.8 | 3058.6 | 3252.4 | 3271.2 |
| 50°   | 3579.7 | 3603.6 | 3806.6 | 3986.4 | 3949.3 | 3655.8 | 3385.9 | 3364.6 | 3342.5 | 3599.9 | 3481.5 |
| 52.5° | 3410.9 | 3456.9 | 3743.7 | 3999.7 | 4048.2 | 3860.3 | 3678.3 | 3664.3 | 3676.4 | 3966.6 | 3692.2 |
| 55°   | 3011.2 | 3062.7 | 3581.6 | 3988.7 | 4121.4 | 4032.0 | 3970.6 | 3969.9 | 4032.8 | 4351.3 | 3918.4 |
| 57.5° | 2787.2 | 2823.6 | 3251.3 | 3969.9 | 4208.2 | 4202.7 | 4260.1 | 4267.0 | 4389.5 | 4770.1 | 4155.2 |
| 60°   | 2660.7 | 2698.9 | 3084.0 | 3900.4 | 4342.8 | 4423.3 | 4555.4 | 4569.3 | 4752.1 | 5233.9 | 4440.3 |
| 62.5° | 2545.6 | 2587.5 | 2980.3 | 3758.8 | 4501.3 | 4738.9 | 4909.1 | 4921.6 | 5136.0 | 5710.5 | 4715.7 |
| 65°   | 2348.8 | 2396.3 | 2828.4 | 3665.8 | 4645.5 | 5150.4 | 5358.9 | 5367.4 | 5577.0 | 6209.9 | 4926.4 |
| 67.5° | 2070.8 | 2114.2 | 2541.9 | 3460.2 | 4752.1 | 5650.2 | 5956.9 | 5961.7 | 6014.2 | 6562.6 | 5034.2 |
| 70°   | 1746.1 | 1762.6 | 2133.7 | 3035.8 | 4626.0 | 6117.6 | 6612.2 | 6613.3 | 6412.9 | 6788.4 | 5016.5 |
| 72.5° | 1226.8 | 1265.8 | 1549.0 | 2298.1 | 3975.4 | 6060.6 | 6952.4 | 6964.9 | 6598.2 | 6674.4 | 4615.7 |
| 75°   | 752.4  | 793.6  | 971.6  | 1392.7 | 2522.1 | 4766.5 | 6423.6 | 6510.3 | 6250.7 | 5951.0 | 3770.6 |
| 77.5° | 503.1  | 518.5  | 634.0  | 812.0  | 1142.6 | 2742.3 | 4938.6 | 5101.8 | 5192.7 | 4339.9 | 2411.4 |
| 80°   | 280.6  | 310.0  | 420.3  | 504.6  | 508.2  | 1089.7 | 2961.2 | 2999.4 | 2889.1 | 1728.1 | 744.0  |
| 82.5° | 148.6  | 164.8  | 280.6  | 296.4  | 277.3  | 364.8  | 1103.6 | 1104.7 | 923.1  | 463.4  | 221.0  |
| 85°   | 115.1  | 128.7  | 192.3  | 180.9  | 141.6  | 161.8  | 364.1  | 383.9  | 314.1  | 189.8  | 72.1   |
| 87.5° | 57.4   | 71.3   | 130.6  | 114.7  | 55.5   | 46.3   | 130.2  | 139.0  | 123.9  | 74.3   | 26.1   |
| 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°    | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 | 1920.4 |
| 2.5°  | 1925.2 | 1928.5 | 1932.5 | 1928.1 | 1926.7 | 1920.8 | 1910.8 | 1908.6 | 1903.5 | 1903.9 | 1906.8 |
| 5°    | 1942.1 | 1947.6 | 1945.4 | 1928.5 | 1908.3 | 1880.0 | 1850.5 | 1825.5 | 1809.0 | 1807.9 | 1806.8 |
| 7.5°  | 1974.5 | 1978.1 | 1960.9 | 1912.7 | 1856.1 | 1790.6 | 1728.8 | 1674.7 | 1642.0 | 1633.9 | 1632.1 |
| 10°   | 2025.2 | 2024.5 | 1977.0 | 1880.0 | 1767.1 | 1650.1 | 1550.8 | 1475.8 | 1432.0 | 1419.2 | 1415.9 |
| 12.5° | 2081.9 | 2073.4 | 1982.6 | 1820.4 | 1641.3 | 1479.1 | 1353.3 | 1269.9 | 1224.3 | 1209.5 | 1205.9 |
| 15°   | 2140.3 | 2119.4 | 1969.0 | 1731.4 | 1486.8 | 1294.9 | 1162.8 | 1085.6 | 1061.0 | 1052.9 | 1051.4 |
| 17.5° | 2194.8 | 2154.3 | 1930.0 | 1610.8 | 1310.7 | 1111.4 | 1008.4 | 977.5  | 983.4  | 994.0  | 994.4  |
| 20°   | 2248.1 | 2177.8 | 1867.5 | 1458.5 | 1125.0 | 960.2  | 925.3  | 948.1  | 976.0  | 997.7  | 1000.7 |
| 22.5° | 2300.7 | 2194.4 | 1786.9 | 1282.7 | 958.7  | 875.3  | 899.9  | 941.4  | 973.4  | 997.0  | 1001.0 |
| 25°   | 2344.8 | 2198.4 | 1675.9 | 1095.2 | 843.3  | 843.3  | 887.8  | 927.1  | 958.7  | 981.9  | 985.9  |
| 27.5° | 2361.0 | 2171.2 | 1519.2 | 921.6  | 785.2  | 828.5  | 870.8  | 903.6  | 930.4  | 955.1  | 959.5  |
| 30°   | 2367.2 | 2120.8 | 1338.3 | 782.2  | 761.2  | 812.7  | 848.0  | 876.0  | 901.4  | 924.5  | 928.6  |
| 32.5° | 2368.3 | 2060.2 | 1146.3 | 703.1  | 744.7  | 796.2  | 819.7  | 844.4  | 871.6  | 880.8  | 882.2  |
| 35°   | 2375.3 | 1988.4 | 944.0  | 662.7  | 729.3  | 780.7  | 799.5  | 817.1  | 773.0  | 776.3  | 779.3  |
| 37.5° | 2395.5 | 1917.5 | 774.9  | 639.9  | 719.3  | 772.7  | 795.1  | 731.1  | 696.5  | 688.4  | 687.3  |
| 40°   | 2433.4 | 1841.7 | 649.5  | 621.5  | 715.6  | 776.7  | 766.8  | 682.6  | 623.0  | 578.5  | 571.9  |
| 42.5° | 2486.0 | 1760.1 | 569.3  | 609.4  | 718.2  | 796.2  | 727.4  | 635.8  | 536.9  | 508.2  | 504.6  |
| 45°   | 2545.2 | 1674.4 | 525.9  | 600.9  | 727.0  | 811.3  | 719.3  | 573.7  | 496.8  | 475.1  | 473.3  |
| 47.5° | 2602.6 | 1569.6 | 503.5  | 597.2  | 739.2  | 799.1  | 685.1  | 554.6  | 477.7  | 466.3  | 467.4  |
| 50°   | 2668.4 | 1475.1 | 489.8  | 593.2  | 749.8  | 791.4  | 646.5  | 544.6  | 470.4  | 484.3  | 499.0  |
| 52.5° | 2724.0 | 1377.2 | 477.7  | 585.1  | 753.9  | 777.8  | 636.6  | 546.5  | 470.4  | 497.2  | 511.2  |
| 55°   | 2789.8 | 1303.3 | 463.7  | 568.2  | 746.2  | 739.2  | 629.6  | 557.5  | 475.9  | 459.0  | 460.4  |
| 57.5° | 2874.7 | 1279.0 | 448.3  | 541.7  | 720.4  | 682.9  | 626.3  | 568.2  | 472.6  | 461.9  | 465.6  |
| 60°   | 2992.4 | 1304.8 | 442.0  | 507.1  | 680.3  | 638.8  | 626.7  | 562.7  | 449.4  | 431.0  | 431.4  |
| 62.5° | 3104.6 | 1333.5 | 441.7  | 485.4  | 631.1  | 599.4  | 618.2  | 544.6  | 437.6  | 427.0  | 431.0  |
| 65°   | 3141.4 | 1304.4 | 424.0  | 461.2  | 575.5  | 552.4  | 602.7  | 525.5  | 428.8  | 412.6  | 411.9  |
| 67.5° | 3092.1 | 1214.3 | 388.3  | 421.8  | 511.9  | 497.6  | 582.5  | 502.7  | 414.8  | 401.6  | 399.4  |
| 70°   | 2945.7 | 1013.2 | 344.2  | 370.0  | 439.5  | 435.8  | 550.5  | 476.2  | 396.1  | 384.7  | 375.1  |
| 72.5° | 2551.8 | 721.9  | 290.2  | 307.8  | 357.8  | 369.6  | 506.4  | 441.7  | 369.6  | 345.0  | 330.2  |
| 75°   | 2095.8 | 534.3  | 238.3  | 242.0  | 271.8  | 303.8  | 445.7  | 401.2  | 338.3  | 296.4  | 285.0  |
| 77.5° | 1283.5 | 326.9  | 189.8  | 191.2  | 194.9  | 242.3  | 367.0  | 356.0  | 298.6  | 247.1  | 239.0  |
| 80°   | 415.6  | 178.4  | 137.2  | 144.2  | 133.1  | 177.6  | 283.9  | 303.0  | 256.3  | 206.7  | 197.9  |
| 82.5° | 158.1  | 104.1  | 92.7   | 97.5   | 92.3   | 119.2  | 207.0  | 242.7  | 210.0  | 169.9  | 138.3  |
| 85°   | 76.5   | 58.8   | 54.8   | 61.4   | 57.0   | 61.0   | 132.4  | 178.7  | 159.2  | 110.7  | 103.0  |
| 87.5° | 27.2   | 26.1   | 21.0   | 28.3   | 24.3   | 21.7   | 40.5   | 90.1   | 105.2  | 76.1   | 68.0   |
| 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)