

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: P522712

Luminaire Tested: **GLAN-SA3D-722-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522712  
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-SA3D-722-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16989 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

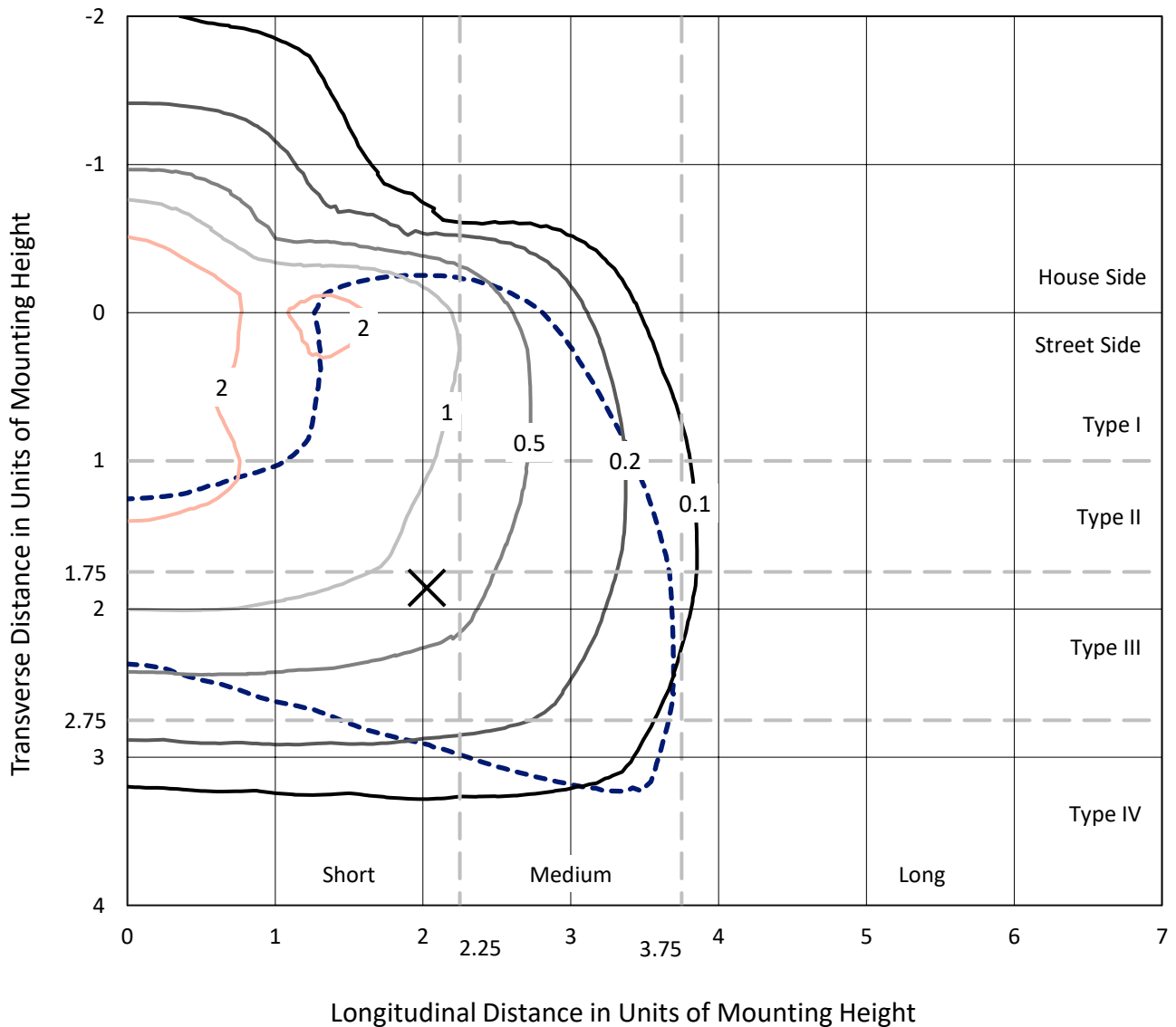
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

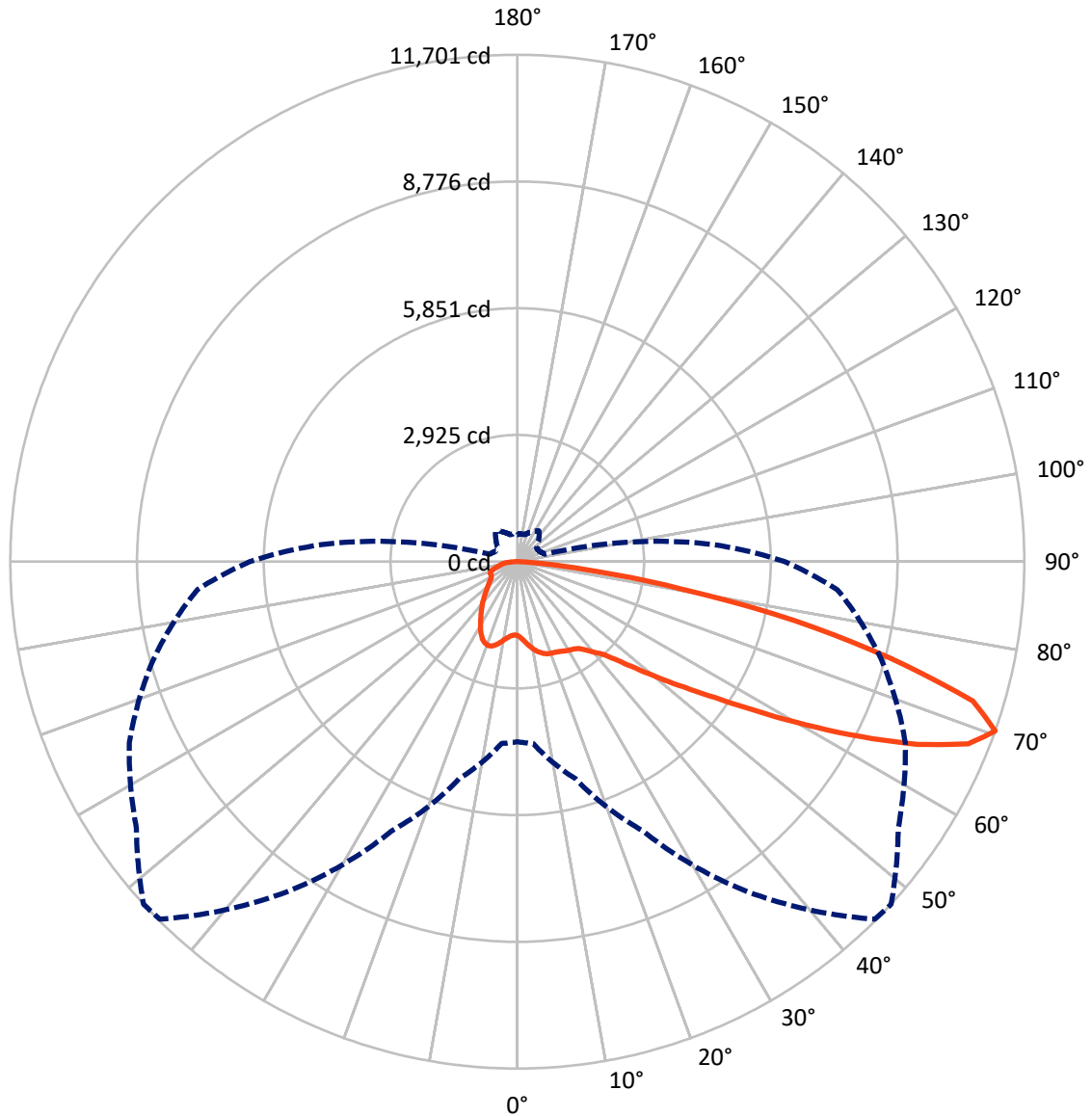
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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    | 3846.6   | 0.0    | 3846.6  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 13142.3  | 0.0    | 13142.3 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 16989.0  | 0.0    | 16989.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 175.8   | 1.0       |
| 10°-20°   | 587.7   | 3.5       |
| 20°-30°   | 977.4   | 5.8       |
| 30°-40°   | 1385.3  | 8.2       |
| 40°-50°   | 2044.9  | 12.0      |
| 50°-60°   | 3541.9  | 20.8      |
| 60°-70°   | 5003.1  | 29.4      |
| 70°-80°   | 2876.0  | 16.9      |
| 80°-90°   | 396.8   | 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°    | 16989.0 | 100.0     |
| 0°-180°   | 16989.0 | 100.0     |

**Coefficient of Utilization**



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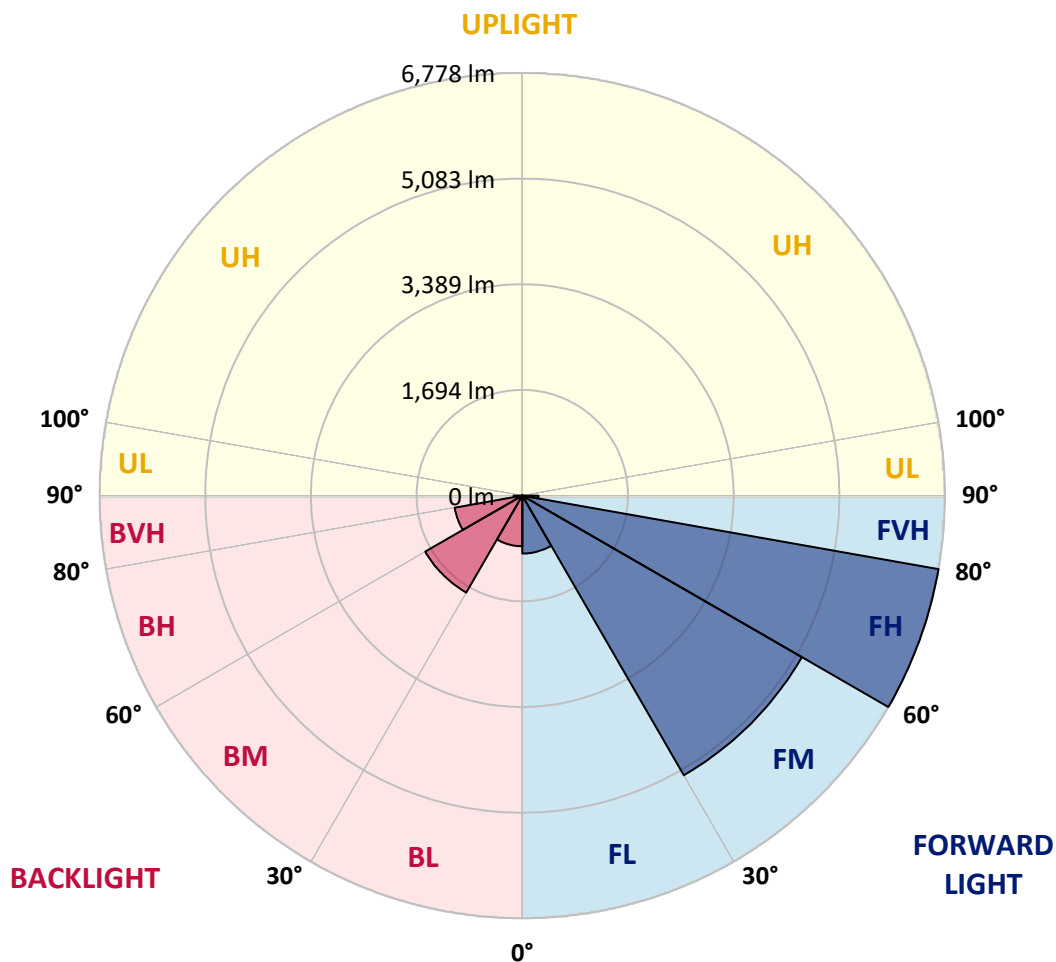
CATALOG NUMBER: GLAN-SA3D-722-U-T4W

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 929.0  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 5176.2 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 6777.9 | 39.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 259.2  | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 811.9  | 4.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1795.9 | 10.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1101.2 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 137.6  | 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°    | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5  | 1705.5  | 1705.5  | 1705.5  | 1705.5 | 1705.5 |
| 2.5°  | 1815.5 | 1809.1 | 1808.2 | 1794.6 | 1787.3 | 1773.7  | 1768.2  | 1755.5  | 1740.0  | 1724.6 | 1710.0 |
| 5°    | 1958.2 | 1958.2 | 1951.9 | 1932.8 | 1902.8 | 1871.9  | 1858.2  | 1833.7  | 1790.0  | 1754.6 | 1724.6 |
| 7.5°  | 2104.6 | 2106.4 | 2093.7 | 2065.5 | 2022.8 | 1972.8  | 1960.0  | 1923.7  | 1861.9  | 1810.0 | 1765.5 |
| 10°   | 2231.0 | 2231.0 | 2213.7 | 2175.5 | 2121.9 | 2067.3  | 2054.6  | 2013.7  | 1944.6  | 1880.0 | 1821.9 |
| 12.5° | 2327.3 | 2327.3 | 2304.6 | 2254.6 | 2196.4 | 2147.3  | 2132.8  | 2093.7  | 2029.1  | 1957.3 | 1883.7 |
| 15°   | 2390.1 | 2385.5 | 2360.1 | 2303.7 | 2247.3 | 2204.6  | 2194.6  | 2161.9  | 2102.8  | 2030.0 | 1947.3 |
| 17.5° | 2392.8 | 2391.0 | 2366.4 | 2319.1 | 2270.0 | 2241.0  | 2234.6  | 2212.8  | 2166.4  | 2097.3 | 2010.0 |
| 20°   | 2340.1 | 2343.7 | 2327.3 | 2293.7 | 2270.0 | 2257.3  | 2254.6  | 2247.3  | 2214.6  | 2150.0 | 2062.8 |
| 22.5° | 2283.7 | 2290.0 | 2274.6 | 2256.4 | 2254.6 | 2267.3  | 2269.1  | 2271.0  | 2250.0  | 2187.3 | 2107.3 |
| 25°   | 2270.0 | 2274.6 | 2259.1 | 2242.8 | 2252.8 | 2286.4  | 2293.7  | 2301.0  | 2284.6  | 2231.9 | 2160.0 |
| 27.5° | 2339.1 | 2335.5 | 2305.5 | 2270.0 | 2276.4 | 2321.9  | 2331.9  | 2340.1  | 2331.9  | 2286.4 | 2225.5 |
| 30°   | 2534.6 | 2522.8 | 2462.8 | 2359.1 | 2326.4 | 2358.2  | 2368.2  | 2391.0  | 2391.0  | 2357.3 | 2296.4 |
| 32.5° | 2861.9 | 2839.2 | 2729.1 | 2525.5 | 2411.9 | 2392.8  | 2402.8  | 2440.1  | 2459.1  | 2432.8 | 2366.4 |
| 35°   | 3259.2 | 3235.5 | 3078.2 | 2804.6 | 2568.2 | 2461.9  | 2459.1  | 2501.0  | 2551.9  | 2492.8 | 2406.4 |
| 37.5° | 3658.3 | 3633.7 | 3444.6 | 3137.3 | 2796.4 | 2607.3  | 2591.0  | 2605.5  | 2627.3  | 2519.1 | 2461.9 |
| 40°   | 4057.4 | 4028.3 | 3862.8 | 3509.2 | 3075.5 | 2800.1  | 2757.3  | 2691.9  | 2682.8  | 2605.5 | 2569.1 |
| 42.5° | 4452.8 | 4426.5 | 4342.8 | 3926.4 | 3410.1 | 2988.2  | 2922.8  | 2810.1  | 2844.6  | 2798.2 | 2766.4 |
| 45°   | 4851.9 | 4853.7 | 4764.6 | 4394.6 | 3813.7 | 3335.5  | 3247.3  | 3071.0  | 3152.8  | 3135.5 | 3153.7 |
| 47.5° | 5205.6 | 5201.0 | 5169.2 | 4849.2 | 4314.6 | 3782.8  | 3669.2  | 3464.6  | 3604.6  | 3668.3 | 3807.4 |
| 50°   | 5548.3 | 5545.6 | 5547.4 | 5364.7 | 4896.5 | 4314.6  | 4189.2  | 3974.6  | 4290.1  | 4511.0 | 4760.1 |
| 52.5° | 6039.2 | 6054.7 | 5944.7 | 5896.5 | 5603.8 | 4942.8  | 4804.6  | 4582.8  | 5100.1  | 5448.3 | 5934.7 |
| 55°   | 6532.0 | 6519.2 | 6432.9 | 6482.9 | 6343.8 | 5686.5  | 5541.9  | 5365.6  | 6001.9  | 6382.9 | 7113.8 |
| 57.5° | 6822.0 | 6826.5 | 6914.7 | 7159.2 | 7257.4 | 6613.8  | 6482.9  | 6346.5  | 7015.6  | 7285.6 | 8162.9 |
| 60°   | 7082.9 | 7103.8 | 7357.4 | 7819.3 | 8085.6 | 7752.9  | 7636.5  | 7503.8  | 7945.6  | 8052.9 | 9073.8 |
| 62.5° | 7164.7 | 7229.2 | 7672.0 | 8362.9 | 8892.9 | 9038.4  | 8893.8  | 8601.1  | 8831.1  | 8789.3 | 9691.1 |
| 65°   | 6756.5 | 6844.7 | 7638.3 | 8566.5 | 9613.8 | 10258.4 | 10166.6 | 9622.9  | 9585.7  | 9333.8 | 9792.0 |
| 67.5° | 5681.9 | 5770.1 | 6789.2 | 8139.3 | 9912.0 | 11314.8 | 11223.0 | 10368.4 | 10043.9 | 9384.7 | 9028.4 |
| 70°   | 4157.4 | 4212.8 | 5187.4 | 6852.9 | 9312.9 | 11669.3 | 11701.2 | 10732.0 | 9880.2  | 8692.9 | 7412.9 |
| 72.5° | 2395.5 | 2518.2 | 3201.0 | 4821.0 | 7608.3 | 10773.0 | 10993.9 | 9975.7  | 8845.6  | 7252.0 | 5182.8 |
| 75°   | 1030.0 | 1032.7 | 1480.0 | 2659.1 | 5152.8 | 8659.3  | 8872.9  | 8269.3  | 6946.5  | 5014.7 | 2767.3 |
| 77.5° | 490.0  | 499.1  | 650.9  | 1187.3 | 2836.4 | 5982.9  | 6559.2  | 5841.9  | 4442.8  | 2409.1 | 1045.5 |
| 80°   | 318.2  | 324.6  | 398.2  | 589.1  | 1390.9 | 3469.2  | 3871.0  | 3370.1  | 1960.0  | 860.9  | 450.9  |
| 82.5° | 192.7  | 194.5  | 266.4  | 360.0  | 765.5  | 1570.9  | 1851.9  | 1462.8  | 836.4   | 515.5  | 265.5  |
| 85°   | 117.3  | 118.2  | 161.8  | 222.7  | 464.6  | 542.7   | 557.3   | 552.7   | 490.9   | 337.3  | 141.8  |
| 87.5° | 56.4   | 58.2   | 83.6   | 105.5  | 182.7  | 168.2   | 159.1   | 184.5   | 231.8   | 181.8  | 60.9   |
| 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°    | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 | 1705.5 |
| 2.5°  | 1703.7 | 1700.9 | 1694.6 | 1691.9 | 1690.0 | 1690.9 | 1690.0 | 1690.0 | 1690.9 | 1690.9 | 1690.9 |
| 5°    | 1711.9 | 1707.3 | 1697.3 | 1697.3 | 1702.8 | 1715.5 | 1727.3 | 1736.4 | 1746.4 | 1745.5 | 1745.5 |
| 7.5°  | 1747.3 | 1739.1 | 1727.3 | 1730.9 | 1744.6 | 1764.6 | 1785.5 | 1805.5 | 1825.5 | 1827.3 | 1826.4 |
| 10°   | 1799.1 | 1790.9 | 1778.2 | 1782.8 | 1804.6 | 1834.6 | 1860.9 | 1890.0 | 1911.9 | 1918.2 | 1916.4 |
| 12.5° | 1858.2 | 1841.9 | 1830.9 | 1843.7 | 1878.2 | 1918.2 | 1943.7 | 1965.5 | 1981.0 | 1990.0 | 1986.4 |
| 15°   | 1918.2 | 1902.8 | 1890.0 | 1916.4 | 1958.2 | 1995.5 | 2008.2 | 2011.9 | 2014.6 | 2023.7 | 2021.9 |
| 17.5° | 1976.4 | 1955.5 | 1951.0 | 1985.5 | 2025.5 | 2041.9 | 2034.6 | 2019.1 | 2007.3 | 2014.6 | 2013.7 |
| 20°   | 2028.2 | 2011.9 | 2010.0 | 2044.6 | 2060.0 | 2044.6 | 2013.7 | 1986.4 | 1965.5 | 1967.3 | 1966.4 |
| 22.5° | 2077.3 | 2064.6 | 2066.4 | 2081.0 | 2056.4 | 2003.7 | 1952.8 | 1915.5 | 1892.8 | 1897.3 | 1900.0 |
| 25°   | 2131.9 | 2119.1 | 2123.7 | 2100.0 | 2019.1 | 1927.3 | 1853.7 | 1821.9 | 1812.8 | 1821.9 | 1828.2 |
| 27.5° | 2202.8 | 2194.6 | 2191.9 | 2101.0 | 1952.8 | 1814.6 | 1730.9 | 1719.1 | 1727.3 | 1747.3 | 1757.3 |
| 30°   | 2279.1 | 2279.1 | 2264.6 | 2085.5 | 1861.9 | 1679.1 | 1606.4 | 1608.2 | 1636.4 | 1664.6 | 1674.6 |
| 32.5° | 2352.8 | 2368.2 | 2322.8 | 2043.7 | 1744.6 | 1547.3 | 1491.9 | 1493.7 | 1518.2 | 1552.8 | 1561.9 |
| 35°   | 2413.7 | 2458.2 | 2372.8 | 1967.3 | 1606.4 | 1436.4 | 1394.6 | 1370.0 | 1370.9 | 1397.3 | 1404.6 |
| 37.5° | 2497.3 | 2580.1 | 2401.9 | 1853.7 | 1459.1 | 1341.8 | 1294.6 | 1251.8 | 1223.7 | 1212.8 | 1212.8 |
| 40°   | 2642.8 | 2764.6 | 2409.1 | 1685.5 | 1320.0 | 1251.8 | 1184.6 | 1133.7 | 1079.1 | 1030.0 | 1020.9 |
| 42.5° | 2889.2 | 3042.8 | 2394.6 | 1491.9 | 1194.6 | 1152.8 | 1087.3 | 1024.6 | 949.1  | 880.0  | 874.6  |
| 45°   | 3325.5 | 3404.6 | 2355.5 | 1290.9 | 1082.8 | 1057.3 | 993.7  | 925.5  | 845.5  | 783.7  | 779.1  |
| 47.5° | 4024.6 | 3912.8 | 2303.7 | 1112.8 | 980.9  | 973.7  | 924.6  | 845.5  | 765.5  | 722.7  | 718.2  |
| 50°   | 5045.6 | 4712.8 | 2296.4 | 983.7  | 899.1  | 902.7  | 862.7  | 790.0  | 720.0  | 684.6  | 679.1  |
| 52.5° | 6274.7 | 5679.2 | 2344.6 | 892.7  | 827.3  | 840.9  | 820.9  | 753.7  | 691.8  | 661.8  | 656.4  |
| 55°   | 7467.4 | 6548.3 | 2373.7 | 821.8  | 760.0  | 785.5  | 788.2  | 731.8  | 675.5  | 645.5  | 641.8  |
| 57.5° | 8435.6 | 7202.9 | 2244.6 | 757.3  | 701.8  | 740.9  | 760.9  | 719.1  | 667.3  | 644.6  | 640.9  |
| 60°   | 9109.3 | 7512.0 | 1877.3 | 700.0  | 659.1  | 705.5  | 750.9  | 720.0  | 687.3  | 690.0  | 691.8  |
| 62.5° | 9323.8 | 7374.7 | 1408.2 | 657.3  | 630.0  | 693.7  | 767.3  | 757.3  | 723.7  | 744.6  | 748.2  |
| 65°   | 8968.4 | 6807.4 | 1020.9 | 623.6  | 604.6  | 701.8  | 816.4  | 784.6  | 710.9  | 726.4  | 726.4  |
| 67.5° | 7778.3 | 5864.7 | 794.6  | 592.7  | 575.5  | 717.3  | 865.5  | 781.8  | 680.9  | 699.1  | 682.7  |
| 70°   | 6170.1 | 4536.5 | 661.8  | 558.2  | 544.6  | 694.6  | 870.0  | 753.7  | 645.5  | 649.1  | 618.2  |
| 72.5° | 4094.6 | 2982.8 | 569.1  | 525.5  | 497.3  | 624.6  | 832.7  | 717.3  | 610.9  | 590.0  | 559.1  |
| 75°   | 2006.4 | 1487.3 | 496.4  | 484.6  | 435.5  | 543.6  | 781.8  | 682.7  | 573.6  | 540.9  | 523.6  |
| 77.5° | 777.3  | 632.7  | 423.6  | 432.7  | 379.1  | 479.1  | 714.6  | 633.6  | 524.6  | 480.0  | 466.4  |
| 80°   | 377.3  | 359.1  | 347.3  | 360.9  | 311.8  | 408.2  | 652.7  | 590.9  | 479.1  | 430.0  | 410.0  |
| 82.5° | 234.6  | 221.8  | 266.4  | 280.9  | 240.0  | 372.7  | 619.1  | 554.6  | 421.8  | 356.4  | 340.0  |
| 85°   | 119.1  | 127.3  | 178.2  | 191.8  | 171.8  | 296.4  | 510.0  | 416.4  | 304.6  | 252.7  | 254.6  |
| 87.5° | 45.5   | 60.9   | 93.6   | 100.9  | 91.8   | 156.4  | 280.9  | 242.7  | 195.5  | 132.7  | 122.7  |
| 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)