

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: P458771

Luminaire Tested: **GLAN-SA3A-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12689 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

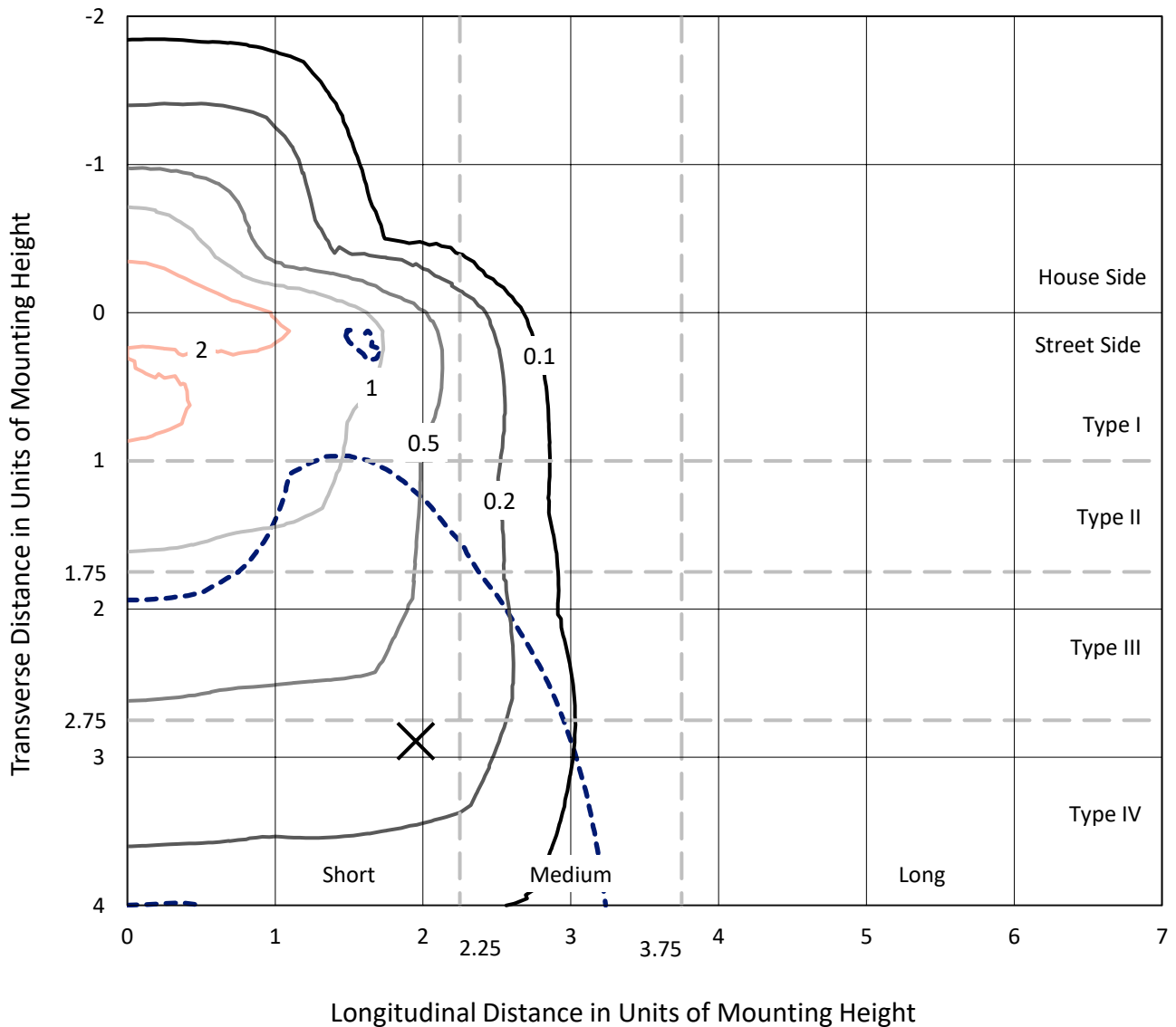
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

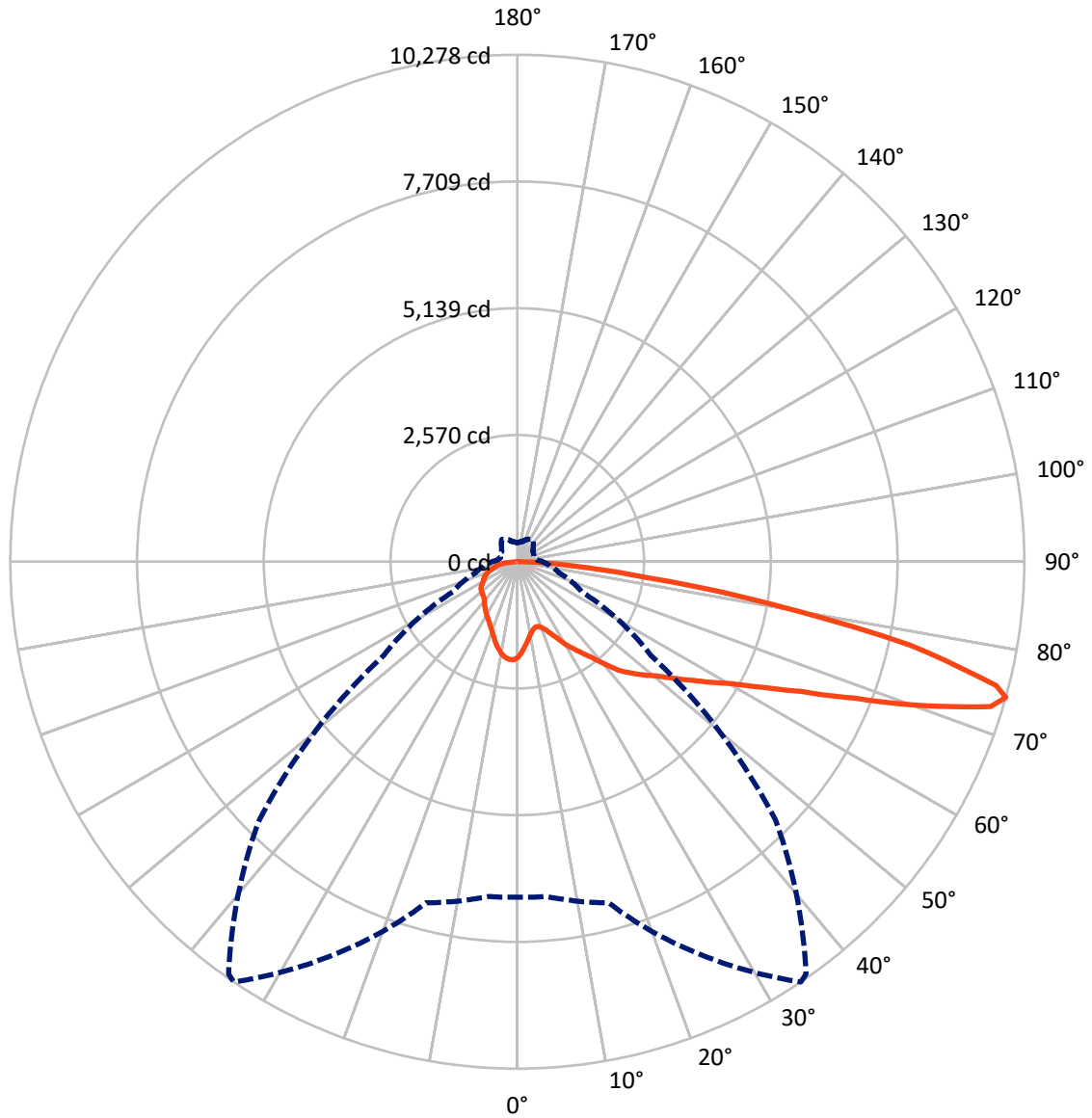
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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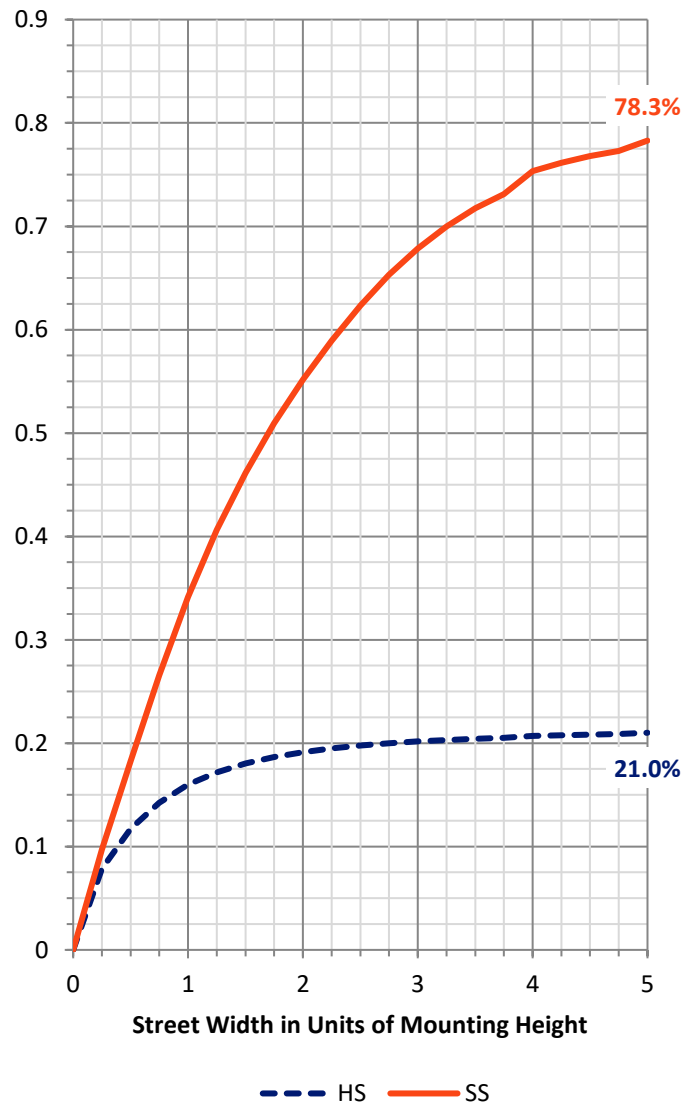
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2700.3   | 0.0    | 2700.3  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 9988.7   | 0.0    | 9988.7  |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 12689.0  | 0.0    | 12689.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 176.2   | 1.4       |
| 10°-20°   | 482.3   | 3.8       |
| 20°-30°   | 795.2   | 6.3       |
| 30°-40°   | 1191.2  | 9.4       |
| 40°-50°   | 1731.6  | 13.6      |
| 50°-60°   | 2418.7  | 19.1      |
| 60°-70°   | 3028.0  | 23.9      |
| 70°-80°   | 2504.0  | 19.7      |
| 80°-90°   | 361.8   | 2.9       |
| 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°    | 12689.0 | 100.0     |
| 0°-180°   | 12689.0 | 100.0     |



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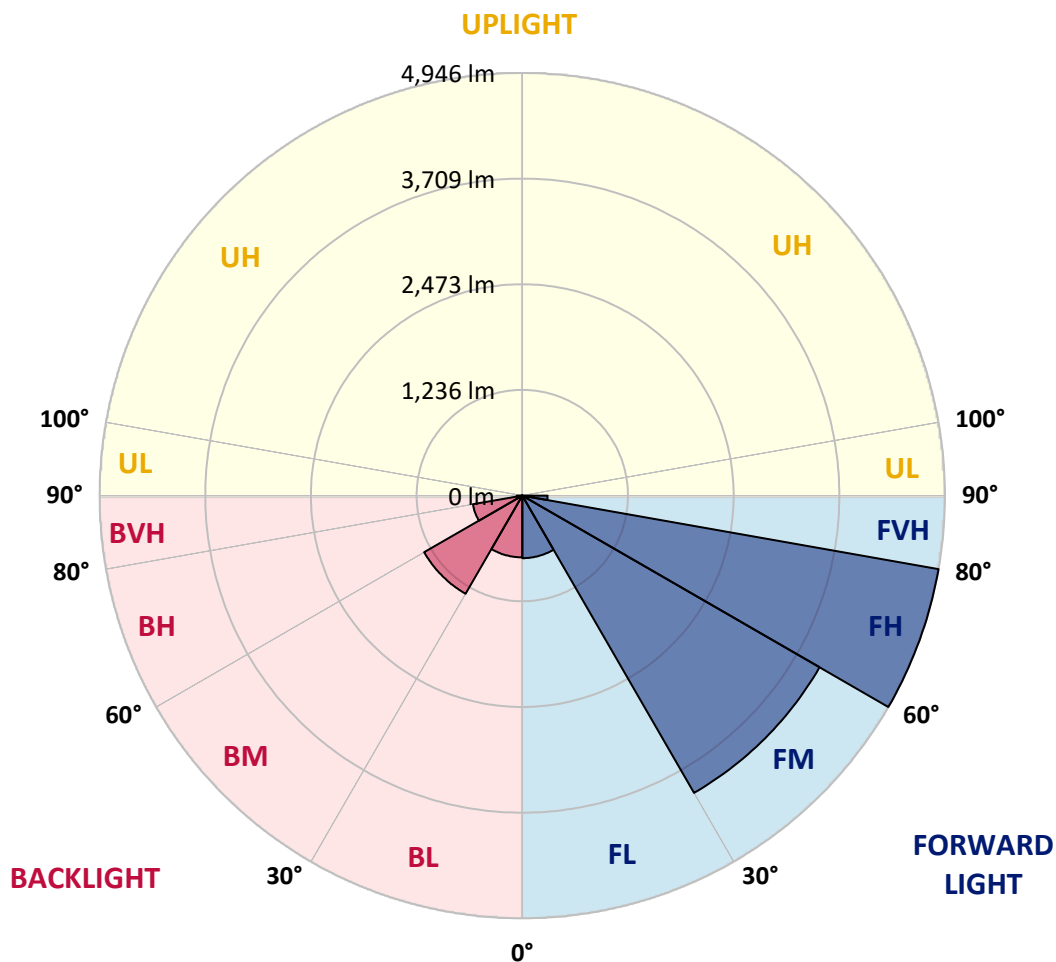
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 731.5  | 5.8       |                         |      |         |
| FM (30°-60°)   | 4015.3 | 31.6      |                         |      |         |
| FH (60°-80°)   | 4945.5 | 39.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 296.4  | 2.3       |                         |      | G3/500  |
| BL (0°-30°)    | 722.3  | 5.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1326.1 | 10.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 586.5  | 4.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 65.4   | 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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4  | 1937.4  | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 |
| 2.5°  | 1790.4 | 1799.6 | 1804.5 | 1822.1 | 1826.3  | 1831.9  | 1846.7 | 1866.4 | 1891.7 | 1914.2 | 1933.8 |
| 5°    | 1641.4 | 1655.5 | 1663.9 | 1679.4 | 1709.6  | 1712.4  | 1751.8 | 1796.8 | 1848.1 | 1895.9 | 1935.3 |
| 7.5°  | 1500.1 | 1515.6 | 1522.6 | 1550.7 | 1590.8  | 1597.1  | 1654.8 | 1725.8 | 1811.5 | 1883.9 | 1944.4 |
| 10°   | 1394.0 | 1401.7 | 1417.2 | 1438.3 | 1486.1  | 1490.3  | 1565.5 | 1660.4 | 1771.5 | 1878.3 | 1959.9 |
| 12.5° | 1336.3 | 1340.5 | 1344.1 | 1366.6 | 1413.7  | 1420.0  | 1498.7 | 1606.3 | 1739.8 | 1882.5 | 1985.2 |
| 15°   | 1344.8 | 1346.2 | 1330.7 | 1334.9 | 1372.9  | 1382.0  | 1460.0 | 1570.4 | 1720.1 | 1893.1 | 2023.1 |
| 17.5° | 1415.8 | 1410.8 | 1372.9 | 1353.2 | 1379.9  | 1384.1  | 1452.3 | 1556.4 | 1711.0 | 1912.8 | 2062.5 |
| 20°   | 1527.5 | 1520.5 | 1455.1 | 1411.5 | 1427.0  | 1430.5  | 1477.6 | 1566.9 | 1720.1 | 1945.1 | 2123.6 |
| 22.5° | 1666.7 | 1663.9 | 1564.8 | 1512.1 | 1511.4  | 1511.4  | 1536.0 | 1604.9 | 1747.6 | 1989.4 | 2187.6 |
| 25°   | 1861.4 | 1846.7 | 1717.3 | 1649.1 | 1630.2  | 1628.8  | 1625.9 | 1667.4 | 1782.7 | 2036.5 | 2263.5 |
| 27.5° | 2061.1 | 2035.8 | 1920.5 | 1815.7 | 1775.0  | 1770.1  | 1751.8 | 1756.0 | 1827.7 | 2089.9 | 2350.0 |
| 30°   | 2240.3 | 2224.2 | 2115.9 | 1999.9 | 1951.4  | 1940.2  | 1889.6 | 1866.4 | 1902.9 | 2186.2 | 2487.8 |
| 32.5° | 2377.4 | 2367.6 | 2283.2 | 2177.8 | 2106.1  | 2104.0  | 2030.2 | 2011.2 | 2020.3 | 2302.9 | 2645.2 |
| 35°   | 2488.5 | 2492.0 | 2449.1 | 2357.7 | 2275.5  | 2263.5  | 2214.3 | 2190.4 | 2163.7 | 2471.6 | 2843.5 |
| 37.5° | 2640.3 | 2648.1 | 2645.2 | 2566.5 | 2466.0  | 2468.8  | 2457.6 | 2418.2 | 2347.2 | 2660.0 | 3063.5 |
| 40°   | 2807.6 | 2813.2 | 2812.5 | 2782.3 | 2729.6  | 2732.4  | 2728.2 | 2683.2 | 2577.1 | 2899.7 | 3308.1 |
| 42.5° | 3038.9 | 3012.2 | 2942.6 | 2972.8 | 3003.8  | 3017.1  | 3045.9 | 3003.0 | 2857.5 | 3155.6 | 3538.0 |
| 45°   | 3297.6 | 3247.0 | 3089.5 | 3103.6 | 3218.2  | 3243.5  | 3402.3 | 3343.3 | 3161.9 | 3449.4 | 3808.6 |
| 47.5° | 3460.7 | 3410.8 | 3277.9 | 3275.1 | 3426.9  | 3451.5  | 3732.7 | 3710.9 | 3438.9 | 3766.5 | 4139.0 |
| 50°   | 3606.2 | 3599.2 | 3449.4 | 3485.3 | 3633.6  | 3670.2  | 4092.6 | 4072.3 | 3715.1 | 4140.4 | 4498.9 |
| 52.5° | 3822.0 | 3765.1 | 3645.6 | 3719.4 | 3915.5  | 3963.3  | 4449.7 | 4390.0 | 3968.9 | 4470.8 | 4848.3 |
| 55°   | 3919.0 | 3905.6 | 3898.6 | 3962.6 | 4231.8  | 4266.3  | 4797.0 | 4659.9 | 4185.4 | 4750.6 | 5114.0 |
| 57.5° | 4178.4 | 4153.8 | 4223.4 | 4267.0 | 4604.4  | 4657.1  | 5159.7 | 4941.8 | 4375.2 | 4972.7 | 5243.4 |
| 60°   | 4514.4 | 4501.1 | 4565.0 | 4643.8 | 5020.5  | 5100.7  | 5573.1 | 5182.2 | 4527.8 | 5084.5 | 5172.4 |
| 62.5° | 5016.3 | 5014.9 | 5003.0 | 5171.7 | 5610.3  | 5684.1  | 6047.6 | 5416.3 | 4551.7 | 5000.9 | 4805.4 |
| 65°   | 5736.2 | 5710.9 | 5606.8 | 5791.0 | 6344.2  | 6430.7  | 6541.8 | 5547.1 | 4407.6 | 4571.4 | 4046.2 |
| 67.5° | 6489.0 | 6487.6 | 6403.3 | 6642.3 | 7398.0  | 7487.2  | 7159.7 | 5518.2 | 4007.6 | 3703.2 | 2873.7 |
| 70°   | 7113.3 | 7083.0 | 7190.6 | 7827.5 | 8744.1  | 8847.5  | 7700.2 | 5178.7 | 3192.1 | 2445.6 | 1707.5 |
| 72.5° | 7263.0 | 7264.4 | 7487.9 | 8741.3 | 10036.9 | 10053.0 | 7895.0 | 4197.4 | 2136.3 | 1349.0 | 854.1  |
| 74°   | 6801.8 | 6813.8 | 7160.4 | 8787.0 | 10278.0 | 10204.9 | 7397.3 | 3299.0 | 1444.6 | 880.8  | 615.8  |
| 75°   | 6208.5 | 6133.3 | 6634.5 | 8482.6 | 10027.7 | 9949.0  | 6814.5 | 2647.3 | 1102.2 | 703.7  | 539.2  |
| 77.5° | 3319.4 | 3396.0 | 4169.3 | 6330.2 | 8146.6  | 8055.9  | 4620.6 | 1269.5 | 595.4  | 490.0  | 388.0  |
| 80°   | 1181.7 | 1303.3 | 1831.9 | 3312.4 | 5223.0  | 5251.1  | 2205.2 | 582.1  | 419.0  | 361.3  | 274.2  |
| 82.5° | 482.2  | 495.6  | 786.6  | 1469.9 | 2652.3  | 2677.6  | 900.5  | 345.9  | 299.5  | 248.8  | 163.8  |
| 85°   | 188.4  | 194.0  | 348.0  | 660.8  | 1131.8  | 1205.6  | 311.4  | 182.8  | 184.2  | 142.7  | 83.7   |
| 87.5° | 63.3   | 71.7   | 142.7  | 220.0  | 384.5   | 376.8   | 90.7   | 54.1   | 66.1   | 61.9   | 26.0   |
| 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°    | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 | 1937.4 |
| 2.5°  | 1943.7 | 1957.0 | 1966.2 | 1976.0 | 1985.2 | 1988.0 | 1985.9 | 1992.2 | 1992.9 | 1993.6 | 1994.3 |
| 5°    | 1954.9 | 1973.2 | 1990.8 | 2000.6 | 2004.8 | 2001.3 | 1989.4 | 1983.1 | 1977.4 | 1973.2 | 1974.6 |
| 7.5°  | 1970.4 | 1996.4 | 2012.6 | 2016.8 | 2005.5 | 1989.4 | 1959.9 | 1936.7 | 1921.9 | 1912.1 | 1911.3 |
| 10°   | 1994.3 | 2019.6 | 2033.0 | 2021.0 | 1990.1 | 1950.7 | 1904.3 | 1860.7 | 1827.7 | 1817.9 | 1817.2 |
| 12.5° | 2024.5 | 2053.3 | 2052.6 | 2017.5 | 1963.4 | 1893.1 | 1817.9 | 1767.2 | 1722.3 | 1699.8 | 1708.9 |
| 15°   | 2063.9 | 2085.7 | 2065.3 | 2002.0 | 1916.3 | 1820.0 | 1727.2 | 1658.3 | 1607.7 | 1583.8 | 1585.2 |
| 17.5° | 2109.6 | 2128.6 | 2074.4 | 1974.6 | 1850.2 | 1726.5 | 1618.9 | 1553.5 | 1513.5 | 1495.9 | 1494.5 |
| 20°   | 2166.5 | 2172.1 | 2074.4 | 1926.8 | 1765.1 | 1617.5 | 1514.9 | 1469.2 | 1446.7 | 1437.6 | 1440.4 |
| 22.5° | 2227.7 | 2216.4 | 2063.2 | 1859.3 | 1653.4 | 1503.6 | 1434.7 | 1414.4 | 1403.1 | 1401.7 | 1403.1 |
| 25°   | 2296.6 | 2264.9 | 2040.0 | 1767.9 | 1536.7 | 1405.2 | 1365.1 | 1368.7 | 1370.8 | 1370.8 | 1375.7 |
| 27.5° | 2380.9 | 2317.7 | 2001.3 | 1652.7 | 1400.3 | 1313.8 | 1302.6 | 1327.2 | 1338.4 | 1340.5 | 1344.1 |
| 30°   | 2492.0 | 2375.3 | 1937.4 | 1508.6 | 1284.3 | 1231.6 | 1251.3 | 1284.3 | 1297.0 | 1304.7 | 1303.3 |
| 32.5° | 2624.2 | 2438.6 | 1850.9 | 1364.4 | 1190.8 | 1173.9 | 1197.8 | 1231.6 | 1245.6 | 1249.9 | 1244.2 |
| 35°   | 2779.5 | 2510.3 | 1737.0 | 1229.5 | 1109.3 | 1119.1 | 1147.2 | 1157.8 | 1170.4 | 1170.4 | 1173.2 |
| 37.5° | 2946.8 | 2567.9 | 1597.8 | 1105.8 | 1046.0 | 1081.9 | 1102.2 | 1092.4 | 1086.8 | 1079.7 | 1083.3 |
| 40°   | 3116.9 | 2610.8 | 1417.2 | 983.4  | 982.7  | 1043.2 | 1048.8 | 1020.7 | 998.2  | 991.2  | 987.7  |
| 42.5° | 3265.3 | 2637.5 | 1254.1 | 888.5  | 923.0  | 1005.2 | 1009.5 | 964.5  | 928.6  | 907.5  | 900.5  |
| 45°   | 3440.3 | 2668.4 | 1094.5 | 809.8  | 867.5  | 975.0  | 985.6  | 925.1  | 872.4  | 828.1  | 816.8  |
| 47.5° | 3680.0 | 2738.7 | 968.7  | 748.7  | 827.4  | 956.0  | 970.8  | 892.8  | 823.2  | 765.5  | 756.4  |
| 50°   | 3950.6 | 2835.0 | 871.0  | 707.2  | 796.5  | 939.2  | 957.4  | 859.7  | 777.5  | 713.5  | 706.5  |
| 52.5° | 4198.8 | 2887.1 | 786.6  | 669.9  | 766.2  | 908.2  | 939.9  | 835.8  | 732.5  | 661.5  | 655.2  |
| 55°   | 4334.5 | 2802.7 | 703.7  | 633.4  | 724.8  | 868.2  | 915.3  | 802.8  | 688.9  | 634.1  | 624.9  |
| 57.5° | 4352.7 | 2628.4 | 628.4  | 594.0  | 681.2  | 818.9  | 869.6  | 762.7  | 660.8  | 615.1  | 607.4  |
| 60°   | 4211.4 | 2368.3 | 570.1  | 561.7  | 636.9  | 763.4  | 818.2  | 727.6  | 632.0  | 594.0  | 586.3  |
| 62.5° | 3860.0 | 2085.7 | 529.3  | 532.1  | 591.9  | 705.1  | 780.3  | 693.8  | 604.5  | 570.8  | 563.8  |
| 65°   | 3255.4 | 1721.6 | 490.0  | 501.9  | 551.8  | 659.4  | 745.8  | 665.7  | 577.1  | 553.2  | 546.9  |
| 67.5° | 2261.4 | 1242.8 | 457.6  | 470.3  | 513.9  | 613.0  | 705.8  | 635.5  | 546.2  | 533.5  | 523.7  |
| 70°   | 1252.0 | 764.8  | 419.7  | 434.4  | 474.5  | 561.0  | 660.8  | 589.8  | 501.2  | 495.6  | 481.5  |
| 72.5° | 658.0  | 487.2  | 376.8  | 393.0  | 421.1  | 494.2  | 591.9  | 539.9  | 456.9  | 433.0  | 414.7  |
| 74°   | 513.9  | 399.3  | 348.0  | 364.8  | 383.8  | 454.8  | 551.1  | 504.0  | 425.3  | 397.2  | 383.1  |
| 75°   | 447.8  | 355.7  | 323.4  | 345.2  | 362.0  | 428.1  | 519.5  | 478.7  | 407.7  | 381.0  | 368.4  |
| 77.5° | 316.3  | 266.4  | 264.3  | 290.3  | 299.5  | 375.4  | 468.2  | 435.8  | 363.4  | 335.3  | 323.4  |
| 80°   | 222.1  | 199.6  | 209.5  | 225.7  | 238.3  | 331.8  | 434.4  | 376.8  | 298.1  | 265.0  | 260.8  |
| 82.5° | 144.8  | 130.8  | 149.7  | 164.5  | 168.7  | 244.6  | 350.8  | 286.1  | 217.2  | 176.4  | 163.8  |
| 85°   | 66.8   | 65.4   | 85.8   | 83.7   | 82.9   | 119.5  | 208.1  | 167.3  | 125.1  | 93.5   | 87.9   |
| 87.5° | 16.9   | 16.2   | 21.1   | 17.6   | 21.1   | 18.3   | 19.0   | 4.9    | 0.7    | 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)