

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: P648786

Luminaire Tested: **GLAN-SA2C-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2C-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8667 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

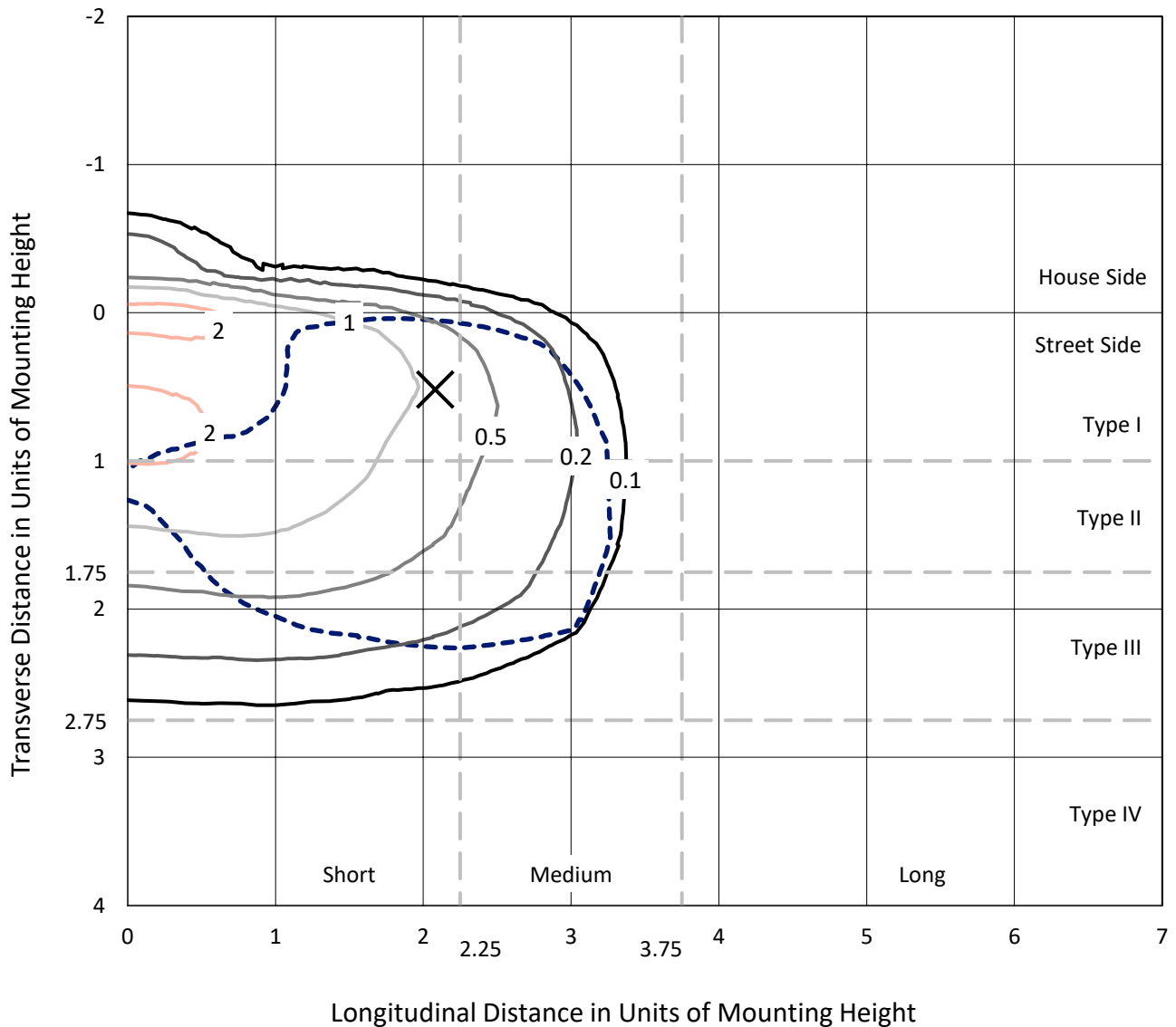
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

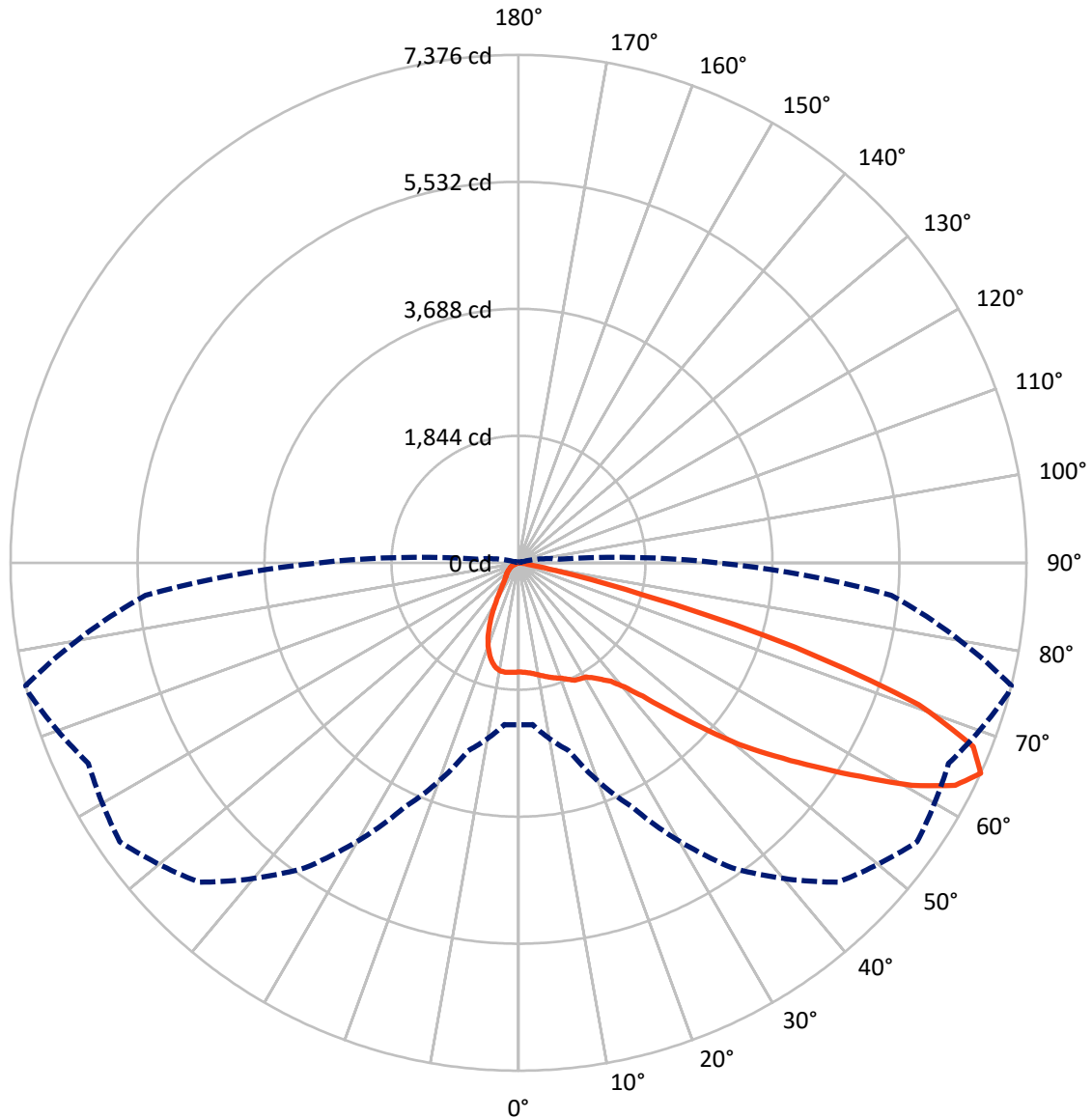
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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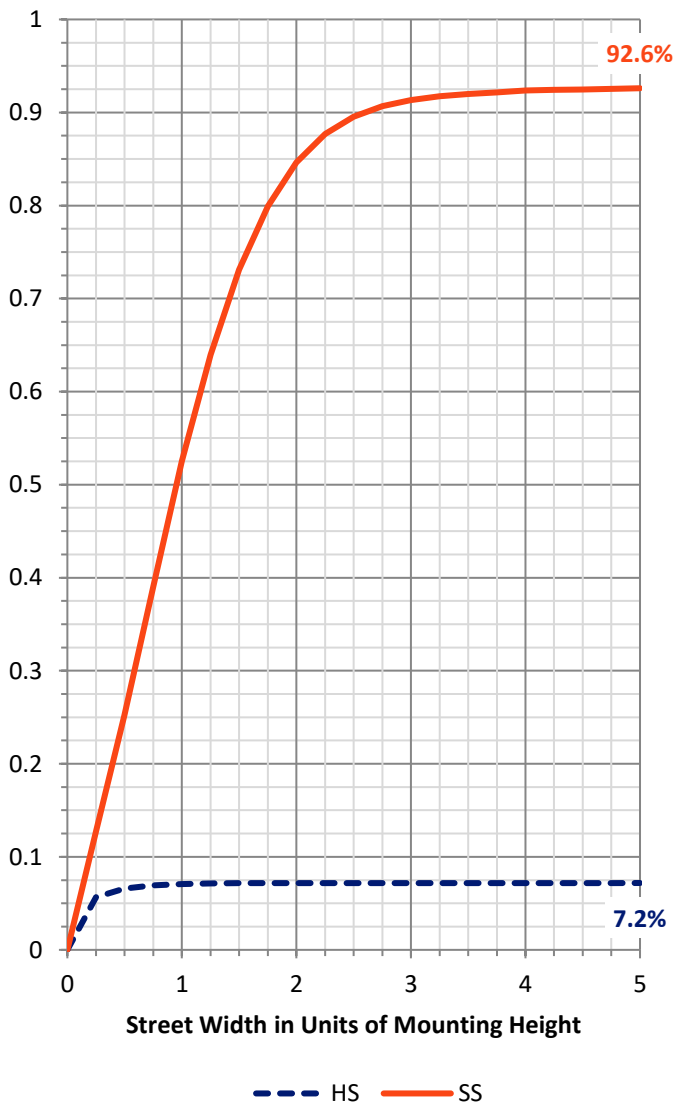
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 625.9    | 0.0    | 625.9  |
|                    | % Fixture | 7.2      | 0.0    | 7.2    |
| <b>Street Side</b> | Lumens    | 8041.1   | 0.0    | 8041.1 |
|                    | % Fixture | 92.8     | 0.0    | 92.8   |
| <b>Total</b>       | Lumens    | 8667.0   | 0.0    | 8667.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.6  | 1.5       |
| 10°-20°   | 290.8  | 3.4       |
| 20°-30°   | 468.6  | 5.4       |
| 30°-40°   | 814.8  | 9.4       |
| 40°-50°   | 1346.4 | 15.5      |
| 50°-60°   | 2079.9 | 24.0      |
| 60°-70°   | 2539.8 | 29.3      |
| 70°-80°   | 963.9  | 11.1      |
| 80°-90°   | 32.2   | 0.4       |
| 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°    | 8667.0 | 100.0     |
| 0°-180°   | 8667.0 | 100.0     |

**Coefficient of Utilization**

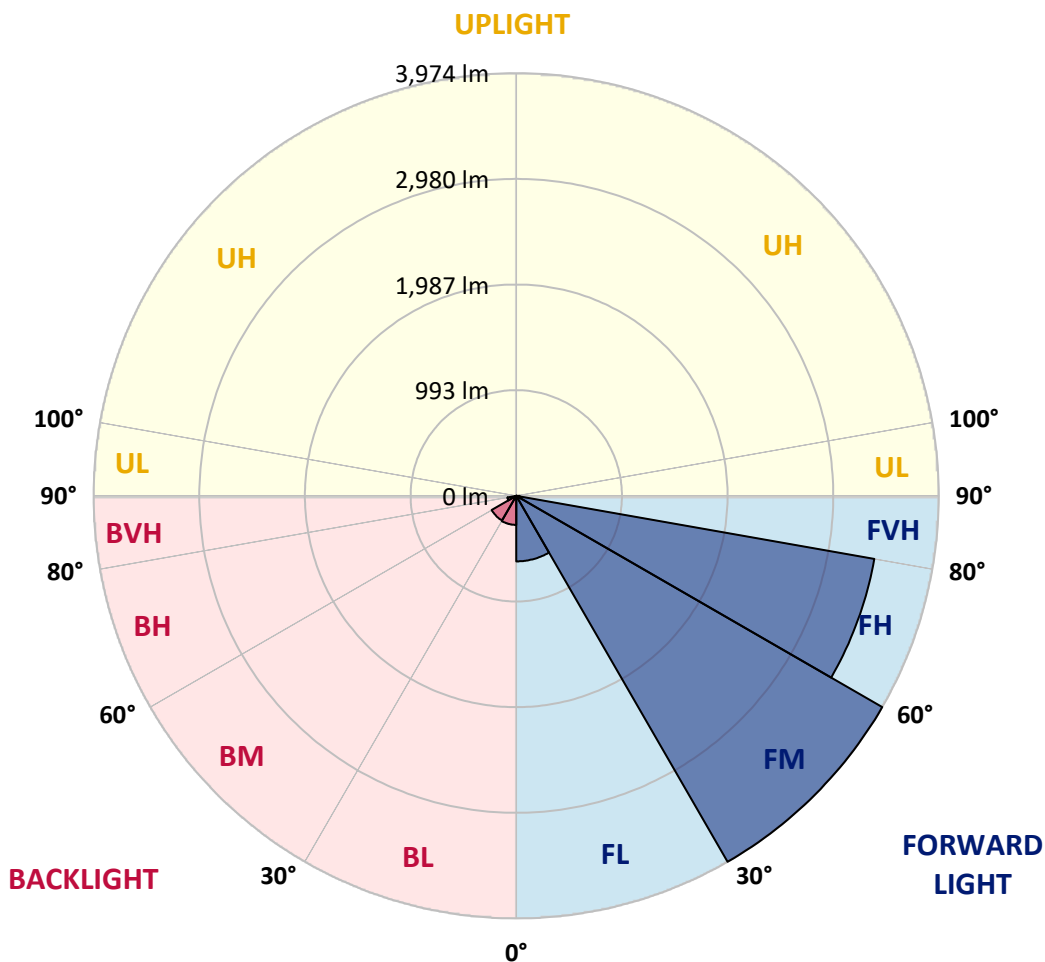


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 616.6  | 7.1       |                         |      |         |
| FM (30°-60°)   | 3974.0 | 45.9      |                         |      |         |
| FH (60°-80°)   | 3418.8 | 39.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 31.7   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 273.5  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 267.1  | 3.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 84.9   | 1.0       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 |
| 2.5°  | 1515.1 | 1515.7 | 1519.4 | 1528.6 | 1542.7 | 1554.3 | 1564.0 | 1579.9 | 1591.0 | 1592.2 | 1595.9 |
| 5°    | 1410.5 | 1403.1 | 1410.5 | 1434.3 | 1455.8 | 1488.2 | 1527.9 | 1567.7 | 1603.2 | 1605.7 | 1622.8 |
| 7.5°  | 1293.0 | 1299.1 | 1310.7 | 1335.2 | 1375.6 | 1425.1 | 1482.7 | 1553.6 | 1621.0 | 1627.1 | 1660.7 |
| 10°   | 1173.6 | 1187.1 | 1206.1 | 1243.4 | 1299.7 | 1364.0 | 1442.3 | 1543.8 | 1649.1 | 1657.7 | 1715.8 |
| 12.5° | 1063.5 | 1069.7 | 1092.9 | 1143.0 | 1212.8 | 1303.4 | 1411.7 | 1538.4 | 1680.3 | 1690.7 | 1774.6 |
| 15°   | 979.1  | 987.0  | 1007.3 | 1052.5 | 1130.2 | 1246.5 | 1386.6 | 1536.6 | 1710.9 | 1725.6 | 1833.3 |
| 17.5° | 963.2  | 968.0  | 976.6  | 1007.3 | 1075.1 | 1201.2 | 1364.0 | 1535.9 | 1740.3 | 1758.1 | 1887.7 |
| 20°   | 1028.6 | 1024.3 | 1015.8 | 1012.7 | 1050.1 | 1166.3 | 1347.5 | 1540.8 | 1768.4 | 1788.6 | 1945.3 |
| 22.5° | 1192.6 | 1198.1 | 1148.0 | 1088.6 | 1076.4 | 1160.8 | 1345.0 | 1564.0 | 1813.1 | 1837.0 | 2009.6 |
| 25°   | 1540.8 | 1498.6 | 1420.3 | 1278.3 | 1171.2 | 1194.5 | 1372.5 | 1619.2 | 1865.1 | 1891.4 | 2067.7 |
| 27.5° | 1925.7 | 1912.9 | 1791.1 | 1557.3 | 1357.9 | 1265.4 | 1421.5 | 1661.4 | 1882.3 | 1909.2 | 2100.7 |
| 30°   | 2303.9 | 2319.2 | 2179.6 | 1921.4 | 1629.0 | 1397.0 | 1467.3 | 1677.3 | 1897.5 | 1925.7 | 2142.9 |
| 32.5° | 2654.5 | 2672.8 | 2550.5 | 2294.7 | 1948.3 | 1624.6 | 1546.3 | 1739.0 | 1961.8 | 1990.5 | 2213.3 |
| 35°   | 2930.5 | 2932.9 | 2840.5 | 2636.8 | 2297.2 | 1901.2 | 1717.0 | 1847.4 | 2048.7 | 2082.4 | 2287.9 |
| 37.5° | 3183.8 | 3180.2 | 3071.8 | 2896.2 | 2587.8 | 2176.0 | 1931.8 | 1972.2 | 2147.8 | 2182.7 | 2395.7 |
| 40°   | 3371.7 | 3374.1 | 3339.3 | 3174.0 | 2858.9 | 2429.9 | 2102.0 | 2089.1 | 2314.2 | 2368.7 | 2552.3 |
| 42.5° | 3497.1 | 3519.7 | 3536.9 | 3453.0 | 3199.7 | 2742.6 | 2363.3 | 2339.4 | 2603.1 | 2648.3 | 2773.9 |
| 45°   | 3598.7 | 3639.1 | 3724.7 | 3720.4 | 3527.1 | 3126.3 | 2721.8 | 2672.8 | 3012.4 | 3060.8 | 3055.9 |
| 47.5° | 3672.7 | 3713.7 | 3855.6 | 3941.4 | 3834.9 | 3498.4 | 3172.8 | 3130.6 | 3501.4 | 3554.0 | 3367.4 |
| 50°   | 3710.6 | 3759.7 | 3940.8 | 4106.6 | 4075.4 | 3856.9 | 3686.8 | 3689.3 | 4091.9 | 4142.7 | 3728.4 |
| 52.5° | 3621.9 | 3685.6 | 3986.0 | 4284.7 | 4345.3 | 4200.2 | 4168.4 | 4249.2 | 4617.5 | 4661.0 | 4054.5 |
| 55°   | 3338.6 | 3418.8 | 3924.2 | 4436.4 | 4657.9 | 4605.3 | 4715.5 | 4838.4 | 5192.1 | 5220.3 | 4389.3 |
| 57.5° | 3159.3 | 3244.4 | 3741.9 | 4565.5 | 5033.6 | 5114.4 | 5288.8 | 5378.7 | 5785.0 | 5856.7 | 4773.6 |
| 60°   | 3008.2 | 3074.9 | 3591.9 | 4593.1 | 5415.5 | 5737.4 | 5906.8 | 5999.8 | 6516.9 | 6563.4 | 5196.4 |
| 62.5° | 2756.7 | 2833.2 | 3338.6 | 4400.9 | 5607.6 | 6236.0 | 6587.3 | 6545.6 | 7082.9 | 7115.4 | 5455.9 |
| 65°   | 2352.2 | 2358.9 | 2824.6 | 3918.1 | 5409.4 | 6559.7 | 7065.2 | 6890.8 | 7353.4 | 7375.5 | 5435.7 |
| 67.5° | 1755.6 | 1820.5 | 2172.9 | 3079.8 | 4569.2 | 6283.2 | 7220.0 | 6900.0 | 7182.7 | 7121.5 | 5004.2 |
| 70°   | 1130.8 | 1180.4 | 1472.9 | 2135.6 | 3294.6 | 5243.5 | 6706.6 | 6426.9 | 6303.9 | 6168.1 | 4096.2 |
| 72.5° | 521.9  | 585.6  | 875.0  | 1220.1 | 1953.8 | 3735.1 | 5444.2 | 5221.5 | 4537.3 | 4202.0 | 2603.7 |
| 75°   | 227.6  | 243.5  | 432.0  | 643.7  | 916.0  | 1975.3 | 3589.5 | 3241.3 | 2049.3 | 1871.8 | 1042.1 |
| 77.5° | 138.9  | 149.3  | 226.4  | 345.1  | 359.8  | 752.6  | 1933.6 | 1414.2 | 633.4  | 558.7  | 282.7  |
| 80°   | 94.3   | 105.9  | 164.6  | 180.5  | 123.0  | 209.9  | 725.8  | 377.6  | 127.9  | 122.4  | 60.6   |
| 82.5° | 45.9   | 58.1   | 121.8  | 100.9  | 53.2   | 67.3   | 211.1  | 80.8   | 37.3   | 34.8   | 21.5   |
| 85°   | 6.7    | 11.6   | 68.5   | 66.1   | 23.9   | 15.9   | 37.3   | 20.2   | 12.8   | 12.2   | 9.8    |
| 87.5° | 0.0    | 0.0    | 23.3   | 10.4   | 2.4    | 2.4    | 4.3    | 4.3    | 4.9    | 4.3    | 4.9    |
| 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°    | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 | 1585.5 |
| 2.5°  | 1597.7 | 1600.8 | 1589.2 | 1572.7 | 1554.9 | 1537.1 | 1512.1 | 1489.4 | 1476.0 | 1483.9 | 1464.3 |
| 5°    | 1626.4 | 1624.0 | 1593.4 | 1543.2 | 1476.6 | 1396.4 | 1316.8 | 1248.9 | 1226.9 | 1193.8 | 1190.2 |
| 7.5°  | 1666.2 | 1659.5 | 1594.7 | 1479.6 | 1329.1 | 1178.6 | 1031.7 | 934.4  | 878.7  | 831.6  | 832.8  |
| 10°   | 1721.9 | 1702.3 | 1580.6 | 1367.7 | 1119.8 | 892.8  | 705.6  | 577.1  | 521.3  | 503.6  | 489.5  |
| 12.5° | 1779.4 | 1741.5 | 1541.4 | 1216.5 | 871.9  | 610.1  | 428.9  | 350.6  | 316.3  | 305.4  | 304.1  |
| 15°   | 1830.9 | 1770.9 | 1472.9 | 1034.7 | 633.9  | 389.8  | 292.5  | 266.8  | 262.5  | 263.1  | 262.5  |
| 17.5° | 1881.6 | 1794.2 | 1378.0 | 842.0  | 430.8  | 279.6  | 251.5  | 245.4  | 247.2  | 249.7  | 249.1  |
| 20°   | 1923.8 | 1799.0 | 1256.9 | 642.5  | 304.7  | 245.4  | 236.2  | 235.0  | 236.8  | 238.7  | 238.7  |
| 22.5° | 1969.8 | 1802.7 | 1113.1 | 444.9  | 249.1  | 228.2  | 223.3  | 223.3  | 225.8  | 228.2  | 228.9  |
| 25°   | 2004.0 | 1782.5 | 941.2  | 319.4  | 219.7  | 211.7  | 209.3  | 209.9  | 212.3  | 213.5  | 213.0  |
| 27.5° | 2009.6 | 1725.6 | 758.8  | 244.8  | 199.5  | 191.5  | 189.1  | 191.5  | 188.5  | 190.3  | 189.1  |
| 30°   | 2014.4 | 1653.4 | 573.9  | 206.2  | 181.1  | 168.9  | 165.2  | 161.5  | 159.1  | 156.1  | 155.4  |
| 32.5° | 2029.7 | 1568.3 | 419.1  | 185.4  | 164.0  | 150.5  | 142.0  | 131.5  | 123.6  | 121.1  | 120.6  |
| 35°   | 2036.4 | 1466.2 | 307.8  | 168.9  | 148.7  | 134.0  | 118.7  | 104.1  | 92.4   | 88.1   | 91.1   |
| 37.5° | 2062.2 | 1367.0 | 238.7  | 156.7  | 135.2  | 116.9  | 97.3   | 78.9   | 67.9   | 65.5   | 66.7   |
| 40°   | 2114.8 | 1259.3 | 200.1  | 146.3  | 123.6  | 100.9  | 77.1   | 59.4   | 52.0   | 49.6   | 48.9   |
| 42.5° | 2199.2 | 1152.3 | 178.1  | 136.5  | 112.0  | 85.0   | 60.6   | 46.5   | 40.4   | 38.5   | 38.5   |
| 45°   | 2302.0 | 1049.5 | 162.8  | 126.1  | 99.8   | 68.5   | 47.8   | 37.3   | 33.7   | 32.4   | 32.4   |
| 47.5° | 2437.2 | 959.5  | 149.9  | 115.6  | 86.3   | 54.5   | 38.5   | 32.4   | 30.0   | 30.6   | 31.2   |
| 50°   | 2574.3 | 892.8  | 135.9  | 104.1  | 71.0   | 44.6   | 33.0   | 28.7   | 28.1   | 28.7   | 28.7   |
| 52.5° | 2677.8 | 853.6  | 116.9  | 88.1   | 55.7   | 37.3   | 29.4   | 26.9   | 26.3   | 25.1   | 25.1   |
| 55°   | 2817.2 | 845.1  | 93.0   | 71.6   | 44.1   | 31.2   | 26.3   | 24.5   | 22.6   | 21.5   | 20.8   |
| 57.5° | 2996.5 | 854.9  | 71.6   | 55.7   | 34.3   | 25.7   | 23.3   | 20.2   | 17.8   | 15.3   | 15.3   |
| 60°   | 3108.0 | 832.8  | 55.7   | 42.8   | 25.1   | 20.8   | 17.8   | 14.7   | 11.6   | 9.8    | 9.2    |
| 62.5° | 3072.4 | 739.8  | 44.1   | 31.8   | 17.8   | 15.3   | 11.6   | 9.8    | 6.7    | 4.9    | 4.3    |
| 65°   | 2889.5 | 597.2  | 35.5   | 22.0   | 12.8   | 9.2    | 6.1    | 6.1    | 3.1    | 0.6    | 0.0    |
| 67.5° | 2529.1 | 442.4  | 28.1   | 14.7   | 7.4    | 4.3    | 3.1    | 1.8    | 0.0    | 0.0    | 0.0    |
| 70°   | 2058.5 | 319.4  | 22.0   | 9.2    | 4.3    | 3.1    | 1.3    | 0.6    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1307.1 | 183.0  | 17.1   | 5.5    | 3.1    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 505.4  | 71.6   | 11.6   | 3.7    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 143.2  | 33.7   | 6.7    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 37.3   | 14.7   | 3.7    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 17.8   | 6.1    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 10.4   | 2.4    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.9    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)