

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: P649989

Luminaire Tested: **GLAN-SA6A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21639.8 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

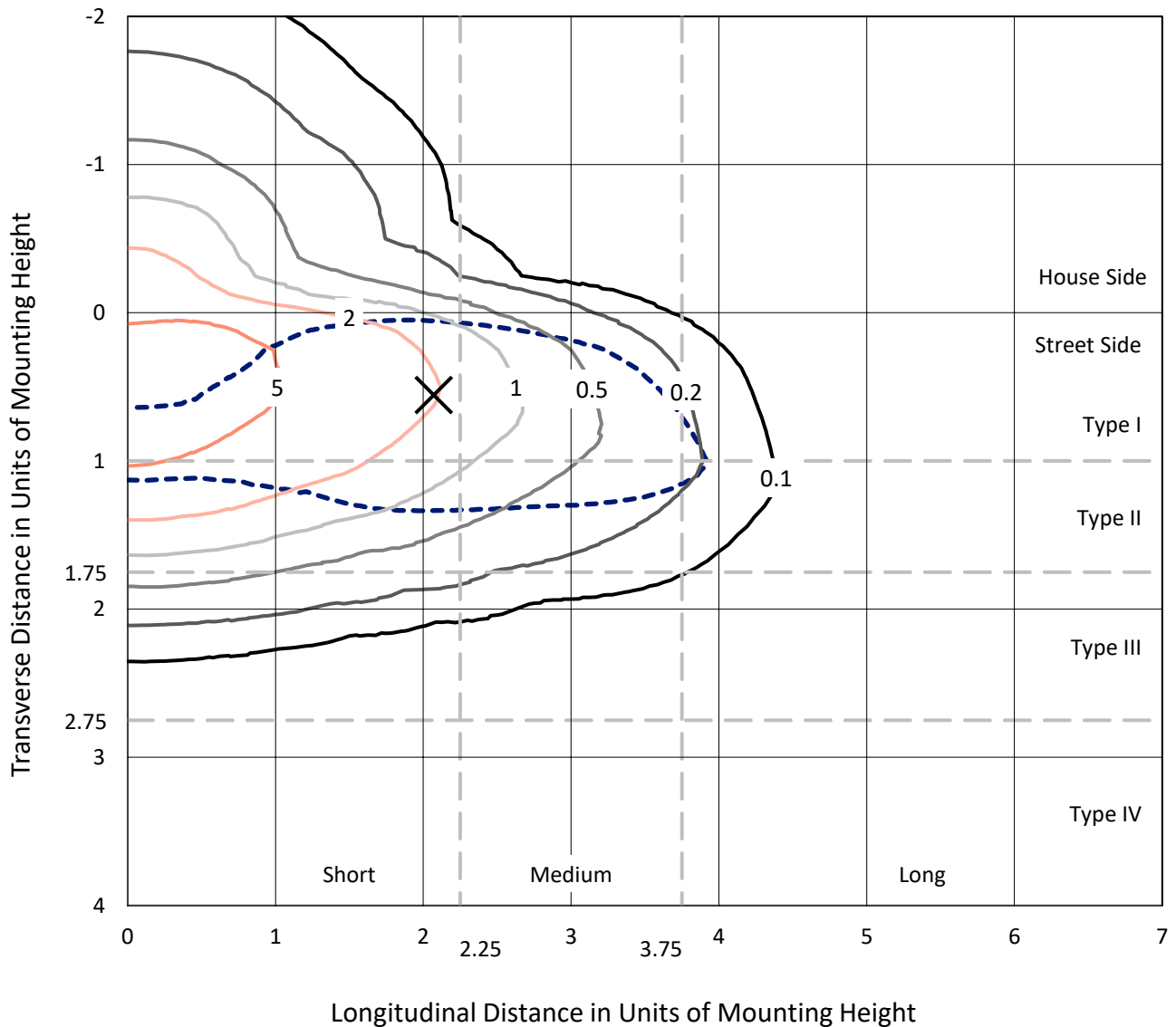
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

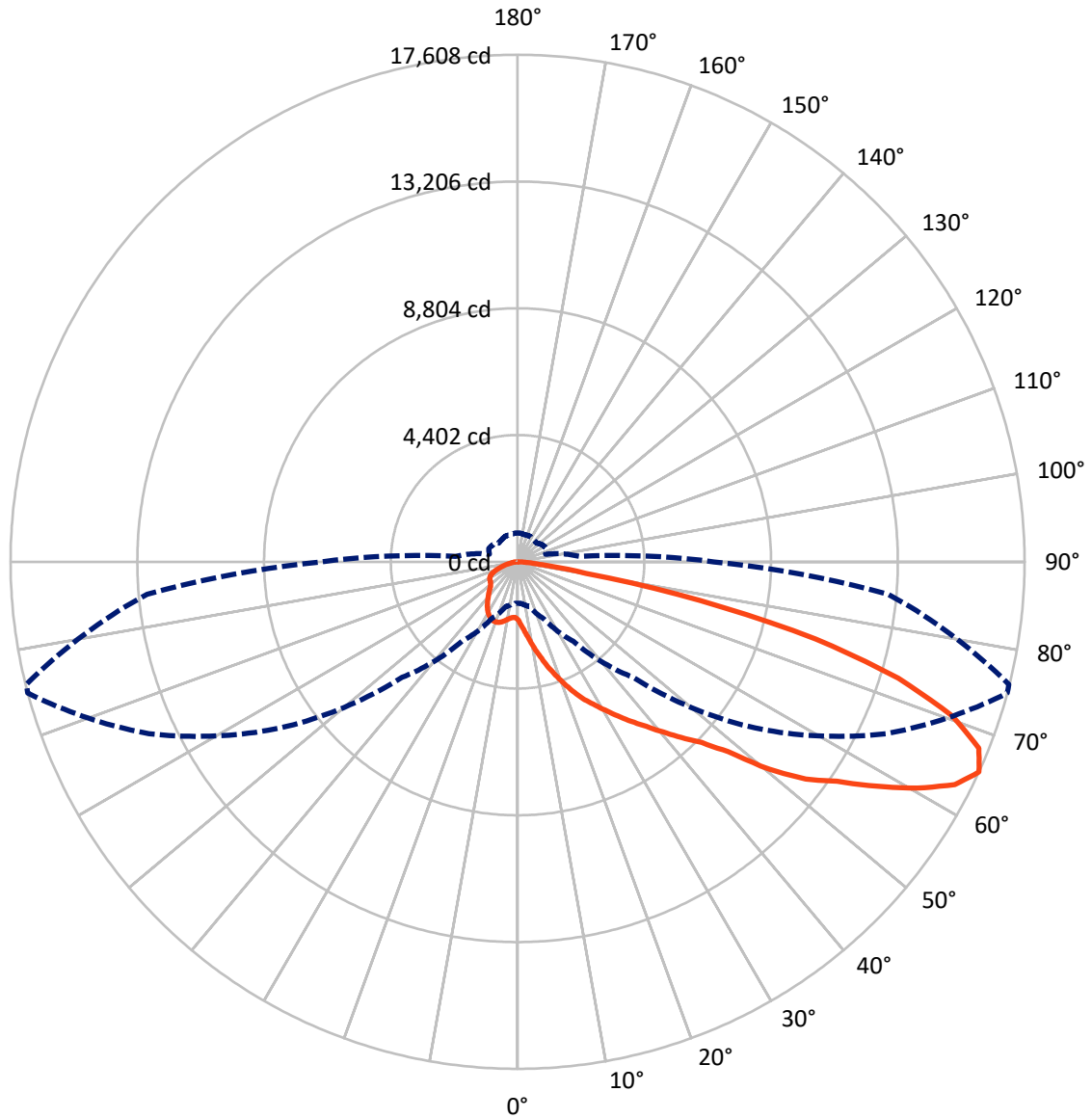
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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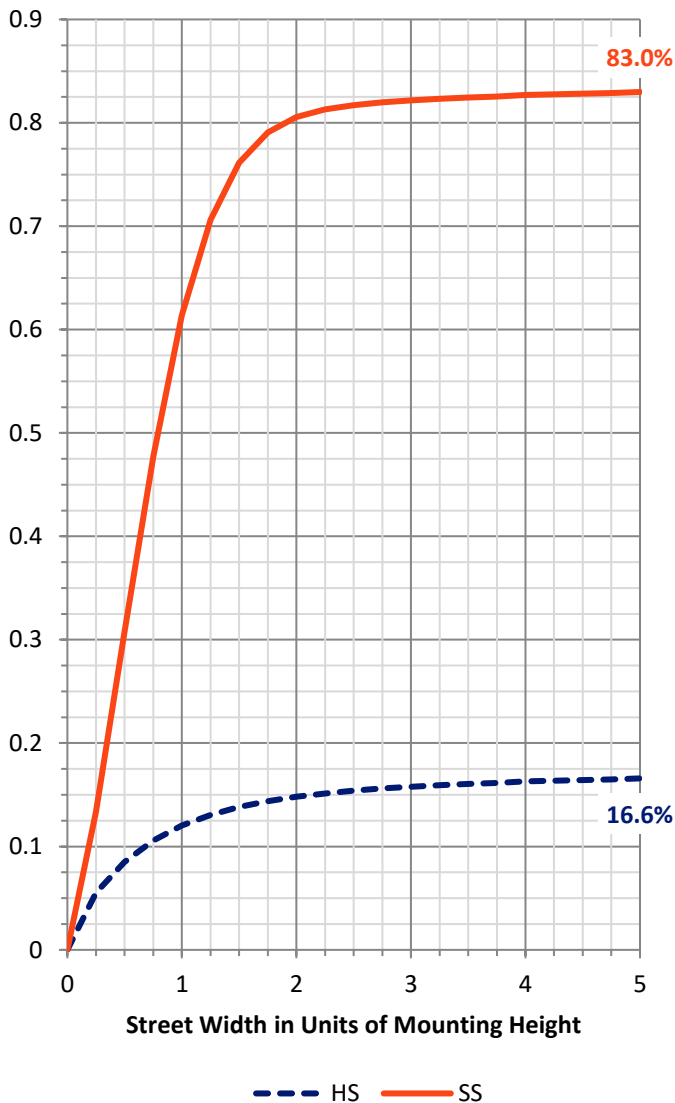
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3637.9   | 0.0    | 3637.9  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 18001.9  | 0.0    | 18001.9 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 21639.8  | 0.0    | 21639.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 244.3   | 1.1       |
| 10°-20°   | 956.8   | 4.4       |
| 20°-30°   | 1848.3  | 8.5       |
| 30°-40°   | 3002.1  | 13.9      |
| 40°-50°   | 4129.7  | 19.1      |
| 50°-60°   | 4875.8  | 22.5      |
| 60°-70°   | 4272.0  | 19.7      |
| 70°-80°   | 2039.5  | 9.4       |
| 80°-90°   | 271.4   | 1.3       |
| 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°    | 21639.8 | 100.0     |
| 0°-180°   | 21639.8 | 100.0     |

**Coefficient of Utilization**

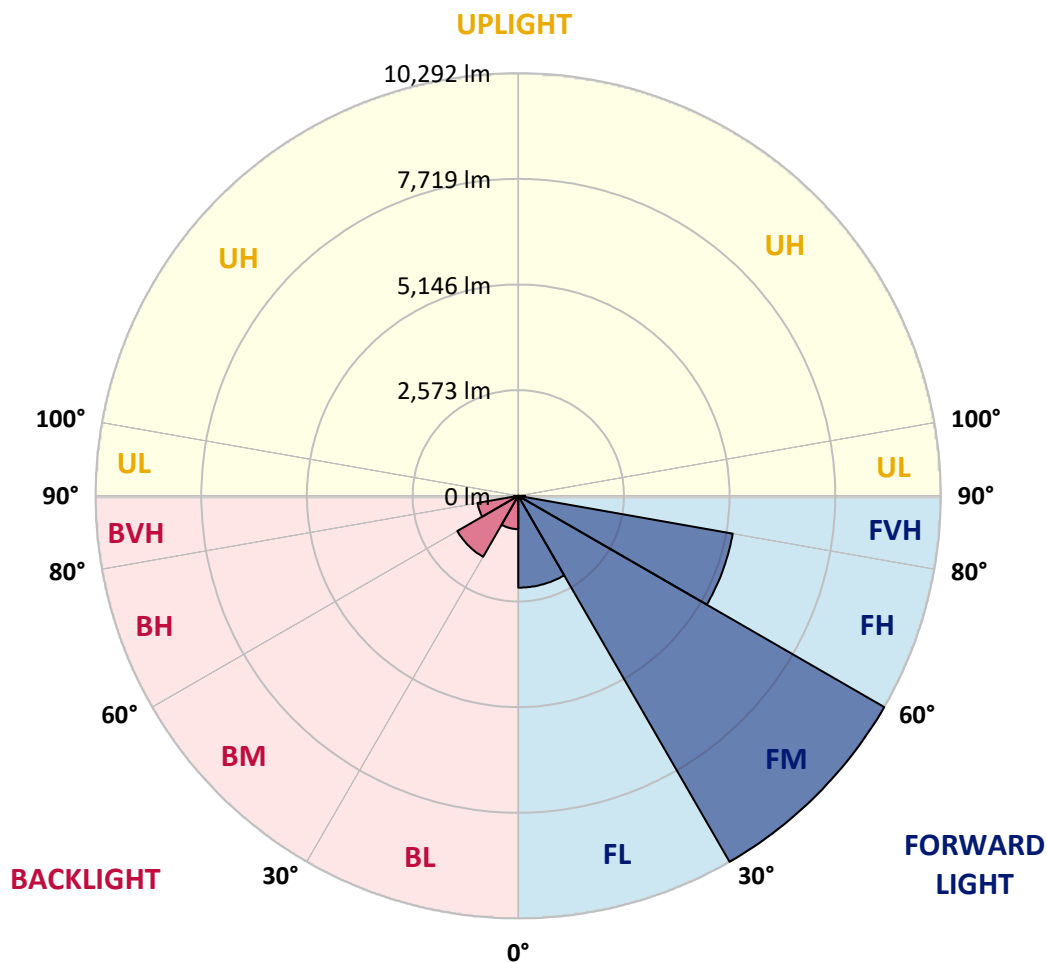


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2237.2  | 10.3      |                         |      |         |
| FM (30°-60°)   | 10292.3 | 47.6      |                         |      |         |
| FH (60°-80°)   | 5302.7  | 24.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 169.6   | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 812.2   | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1715.3  | 7.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 1008.7  | 4.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 101.8   | 0.5       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6  | 2010.6  | 2010.6  | 2010.6  | 2010.6  | 2010.6  |
| 2.5°  | 2671.4 | 2653.8 | 2635.0 | 2583.4 | 2528.2 | 2466.0  | 2376.8  | 2291.1  | 2177.3  | 2173.8  | 2089.3  |
| 5°    | 3412.1 | 3400.3 | 3316.9 | 3268.9 | 3140.9 | 2970.7  | 2826.3  | 2602.1  | 2394.4  | 2369.7  | 2205.5  |
| 7.5°  | 4092.8 | 4047.0 | 4015.4 | 3928.5 | 3801.7 | 3583.4  | 3304.0  | 3001.2  | 2653.8  | 2620.9  | 2348.6  |
| 10°   | 4605.8 | 4601.1 | 4584.6 | 4509.5 | 4414.4 | 4197.3  | 3887.4  | 3453.1  | 2982.4  | 2917.9  | 2522.4  |
| 12.5° | 4989.5 | 4993.0 | 4990.7 | 4989.5 | 4921.5 | 4737.2  | 4401.5  | 3943.7  | 3314.6  | 3268.9  | 2723.0  |
| 15°   | 5241.9 | 5277.1 | 5291.2 | 5349.8 | 5355.7 | 5232.5  | 4943.8  | 4417.9  | 3689.0  | 3621.0  | 2939.1  |
| 17.5° | 5408.6 | 5426.2 | 5491.9 | 5591.6 | 5672.7 | 5650.4  | 5393.3  | 4856.9  | 4071.7  | 3957.8  | 3163.2  |
| 20°   | 5568.2 | 5598.7 | 5649.2 | 5785.4 | 5928.6 | 5994.3  | 5813.5  | 5306.5  | 4450.8  | 4378.1  | 3410.9  |
| 22.5° | 5900.4 | 5943.8 | 5961.4 | 6030.7 | 6152.7 | 6268.9  | 6186.8  | 5737.2  | 4866.3  | 4767.7  | 3673.8  |
| 25°   | 6462.6 | 6508.4 | 6459.0 | 6442.6 | 6482.5 | 6540.1  | 6522.5  | 6143.3  | 5258.3  | 5117.5  | 3922.6  |
| 27.5° | 7195.0 | 7200.9 | 7104.6 | 7013.1 | 6914.4 | 6885.2  | 6831.1  | 6503.7  | 5598.7  | 5481.3  | 4172.6  |
| 30°   | 7981.4 | 7953.2 | 7793.6 | 7628.1 | 7461.4 | 7297.1  | 7142.2  | 6851.1  | 5977.8  | 5842.8  | 4417.9  |
| 32.5° | 8711.4 | 8696.2 | 8519.0 | 8261.9 | 7980.3 | 7825.3  | 7511.9  | 7202.0  | 6384.0  | 6253.7  | 4670.3  |
| 35°   | 9258.4 | 9280.7 | 9085.9 | 8805.4 | 8497.8 | 8360.5  | 7965.0  | 7570.6  | 6804.1  | 6662.2  | 4945.0  |
| 37.5° | 9647.0 | 9635.2 | 9462.6 | 9219.7 | 8949.8 | 8830.0  | 8494.3  | 7973.2  | 7256.1  | 7119.9  | 5245.4  |
| 40°   | 9785.5 | 9778.4 | 9650.5 | 9473.2 | 9301.9 | 9259.6  | 9048.3  | 8407.5  | 7773.6  | 7614.0  | 5606.9  |
| 42.5° | 9697.4 | 9712.6 | 9628.2 | 9580.0 | 9548.4 | 9578.8  | 9598.8  | 8976.7  | 8338.2  | 8191.5  | 5999.0  |
| 45°   | 9427.5 | 9419.3 | 9407.5 | 9486.1 | 9664.6 | 9865.3  | 10143.5 | 9514.3  | 8952.0  | 8834.7  | 6524.8  |
| 47.5° | 8945.1 | 9003.7 | 9033.1 | 9250.2 | 9639.9 | 10115.3 | 10770.2 | 10235.0 | 9842.9  | 9740.8  | 7326.5  |
| 50°   | 8270.1 | 8317.1 | 8490.8 | 8876.9 | 9457.9 | 10209.1 | 11382.9 | 11413.4 | 11328.9 | 11137.5 | 8197.4  |
| 52.5° | 7216.1 | 7288.9 | 7646.9 | 8354.6 | 9084.7 | 10170.4 | 11753.8 | 12424.0 | 12535.5 | 12392.3 | 9055.4  |
| 55°   | 6036.5 | 6138.6 | 6516.6 | 7445.0 | 8570.6 | 9959.1  | 12009.7 | 13009.7 | 13454.5 | 13321.9 | 9881.7  |
| 57.5° | 4881.5 | 4989.5 | 5378.0 | 6277.2 | 7673.9 | 9492.0  | 12177.5 | 13662.3 | 14705.8 | 14533.2 | 10909.9 |
| 60°   | 3658.6 | 3771.2 | 4104.6 | 5030.6 | 6396.9 | 8578.9  | 12063.7 | 14228.0 | 15955.7 | 15881.8 | 11939.3 |
| 62.5° | 2360.4 | 2484.8 | 2774.7 | 3541.2 | 4916.8 | 7331.2  | 11454.5 | 14540.2 | 17037.9 | 16948.7 | 12690.4 |
| 65°   | 1437.8 | 1451.9 | 1611.6 | 2198.4 | 3365.1 | 5676.2  | 10061.2 | 14125.9 | 17608.3 | 17581.4 | 12919.3 |
| 67.5° | 929.6  | 951.9  | 1024.6 | 1316.9 | 2017.6 | 3942.6  | 8044.8  | 12758.5 | 17275.0 | 17265.6 | 12446.3 |
| 70°   | 785.2  | 792.2  | 825.1  | 888.5  | 1172.5 | 2390.9  | 5649.2  | 10578.9 | 16008.6 | 16008.6 | 11308.9 |
| 72.5° | 701.9  | 711.3  | 723.0  | 743.0  | 836.9  | 1354.5  | 3371.0  | 8234.9  | 13821.9 | 13913.4 | 9625.8  |
| 75°   | 637.4  | 635.0  | 642.1  | 645.6  | 713.6  | 885.0   | 1743.0  | 6090.5  | 10692.7 | 10509.7 | 6970.8  |
| 77.5° | 545.8  | 549.3  | 545.8  | 561.0  | 630.3  | 673.7   | 885.0   | 4086.9  | 6480.2  | 6243.1  | 3498.9  |
| 80°   | 448.3  | 454.2  | 460.1  | 469.5  | 538.8  | 511.8   | 531.7   | 1862.7  | 2396.8  | 2346.3  | 1081.0  |
| 82.5° | 336.8  | 345.1  | 354.5  | 376.8  | 423.7  | 338.0   | 335.7   | 795.8   | 865.1   | 792.2   | 397.9   |
| 85°   | 136.2  | 160.8  | 243.0  | 265.3  | 266.5  | 185.4   | 206.6   | 332.1   | 353.3   | 345.1   | 156.1   |
| 87.5° | 31.7   | 37.6   | 78.6   | 118.5  | 109.2  | 69.2    | 76.3    | 108.0   | 123.2   | 113.8   | 52.9    |
| 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°    | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 | 2010.6 |
| 2.5°  | 2050.5 | 2009.4 | 1939.0 | 1885.0 | 1846.3 | 1812.3 | 1791.1 | 1778.2 | 1773.5 | 1772.3 | 1773.5 |
| 5°    | 2119.7 | 2047.0 | 1935.5 | 1865.0 | 1826.3 | 1804.0 | 1791.1 | 1789.9 | 1791.1 | 1792.3 | 1788.8 |
| 7.5°  | 2214.9 | 2110.3 | 1964.9 | 1899.1 | 1869.7 | 1853.4 | 1847.5 | 1845.1 | 1846.3 | 1845.1 | 1845.1 |
| 10°   | 2341.6 | 2198.4 | 2022.3 | 1954.3 | 1929.6 | 1910.8 | 1901.4 | 1895.6 | 1890.9 | 1886.2 | 1883.8 |
| 12.5° | 2481.2 | 2295.8 | 2084.6 | 2018.8 | 1983.6 | 1954.3 | 1933.1 | 1917.9 | 1907.3 | 1896.7 | 1894.4 |
| 15°   | 2637.4 | 2399.1 | 2153.8 | 2062.3 | 2011.8 | 1968.4 | 1932.0 | 1907.3 | 1888.5 | 1873.2 | 1872.1 |
| 17.5° | 2786.5 | 2496.5 | 2200.8 | 2082.2 | 2008.2 | 1947.2 | 1899.1 | 1865.0 | 1841.6 | 1821.6 | 1819.3 |
| 20°   | 2946.0 | 2589.2 | 2221.9 | 2069.3 | 1973.1 | 1899.1 | 1835.7 | 1794.6 | 1767.6 | 1745.3 | 1741.9 |
| 22.5° | 3106.9 | 2667.9 | 2219.6 | 2028.2 | 1912.0 | 1825.2 | 1758.2 | 1714.8 | 1683.1 | 1660.8 | 1652.6 |
| 25°   | 3260.6 | 2731.3 | 2190.2 | 1962.5 | 1827.5 | 1737.2 | 1669.0 | 1629.1 | 1601.0 | 1574.0 | 1574.0 |
| 27.5° | 3399.2 | 2768.8 | 2135.0 | 1882.6 | 1740.7 | 1645.6 | 1591.6 | 1555.2 | 1529.4 | 1511.7 | 1501.2 |
| 30°   | 3535.3 | 2786.5 | 2059.9 | 1781.7 | 1649.1 | 1568.1 | 1524.7 | 1503.5 | 1480.1 | 1460.1 | 1457.8 |
| 32.5° | 3657.4 | 2782.9 | 1966.0 | 1683.1 | 1562.2 | 1504.7 | 1487.2 | 1470.7 | 1446.0 | 1417.9 | 1410.8 |
| 35°   | 3775.9 | 2759.4 | 1854.5 | 1575.2 | 1489.5 | 1467.2 | 1471.9 | 1448.4 | 1403.8 | 1368.6 | 1362.7 |
| 37.5° | 3905.0 | 2717.2 | 1732.5 | 1487.2 | 1428.4 | 1449.6 | 1461.3 | 1409.6 | 1336.9 | 1281.7 | 1268.8 |
| 40°   | 4054.1 | 2669.1 | 1605.7 | 1399.1 | 1380.4 | 1433.1 | 1433.1 | 1338.1 | 1238.3 | 1204.3 | 1194.9 |
| 42.5° | 4229.0 | 2629.2 | 1500.1 | 1325.1 | 1340.4 | 1393.2 | 1387.3 | 1243.0 | 1201.9 | 1184.3 | 1179.6 |
| 45°   | 4505.9 | 2615.1 | 1390.8 | 1260.6 | 1307.5 | 1346.3 | 1298.1 | 1210.1 | 1186.6 | 1172.5 | 1167.8 |
| 47.5° | 4943.8 | 2631.5 | 1294.6 | 1212.5 | 1269.9 | 1299.3 | 1198.4 | 1187.8 | 1171.4 | 1151.4 | 1149.1 |
| 50°   | 5349.8 | 2616.2 | 1226.6 | 1185.5 | 1237.1 | 1243.0 | 1157.3 | 1160.8 | 1151.4 | 1129.2 | 1124.5 |
| 52.5° | 5682.1 | 2568.2 | 1183.1 | 1171.4 | 1209.0 | 1144.4 | 1118.6 | 1131.5 | 1128.0 | 1099.8 | 1095.1 |
| 55°   | 6047.1 | 2538.8 | 1162.0 | 1171.4 | 1190.2 | 1058.7 | 1082.2 | 1101.0 | 1096.3 | 1076.3 | 1075.1 |
| 57.5° | 6489.6 | 2544.7 | 1146.7 | 1174.9 | 1171.4 | 1015.3 | 1045.8 | 1068.1 | 1066.9 | 1061.0 | 1061.0 |
| 60°   | 6942.6 | 2547.0 | 1123.3 | 1173.7 | 1149.1 | 981.3  | 1008.3 | 1039.9 | 1042.3 | 1045.8 | 1045.8 |
| 62.5° | 7092.9 | 2444.9 | 1077.5 | 1152.6 | 1099.8 | 948.4  | 973.0  | 1016.5 | 1014.1 | 1023.5 | 1024.6 |
| 65°   | 6812.3 | 2162.0 | 1009.4 | 1104.5 | 1036.4 | 924.9  | 946.0  | 986.0  | 973.0  | 997.7  | 1002.4 |
| 67.5° | 6200.8 | 1788.8 | 903.7  | 1017.7 | 966.0  | 900.3  | 928.4  | 943.7  | 920.2  | 968.3  | 969.5  |
| 70°   | 5359.2 | 1396.7 | 770.0  | 894.4  | 886.2  | 874.5  | 914.3  | 890.9  | 858.0  | 916.7  | 904.9  |
| 72.5° | 4481.3 | 1066.9 | 615.0  | 731.2  | 779.4  | 835.7  | 889.7  | 822.8  | 777.0  | 794.6  | 773.5  |
| 75°   | 3366.3 | 788.7  | 494.2  | 572.8  | 649.1  | 780.6  | 867.4  | 740.6  | 670.2  | 653.8  | 649.1  |
| 77.5° | 1716.0 | 515.3  | 369.7  | 428.4  | 487.1  | 705.4  | 836.9  | 644.4  | 555.1  | 529.4  | 517.6  |
| 80°   | 612.7  | 320.4  | 260.6  | 295.8  | 328.6  | 606.8  | 731.2  | 532.9  | 430.7  | 426.0  | 430.7  |
| 82.5° | 284.1  | 206.6  | 174.9  | 193.6  | 194.8  | 405.0  | 557.5  | 397.9  | 327.5  | 497.7  | 420.2  |
| 85°   | 122.1  | 103.3  | 98.6   | 96.2   | 89.2   | 180.7  | 313.4  | 213.6  | 333.3  | 149.1  | 137.3  |
| 87.5° | 36.4   | 41.1   | 36.4   | 27.0   | 20.0   | 20.0   | 31.7   | 11.7   | 8.2    | 5.9    | 5.9    |
| 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)