

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: P649087

Luminaire Tested: **GLAN-SA8C-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44371 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

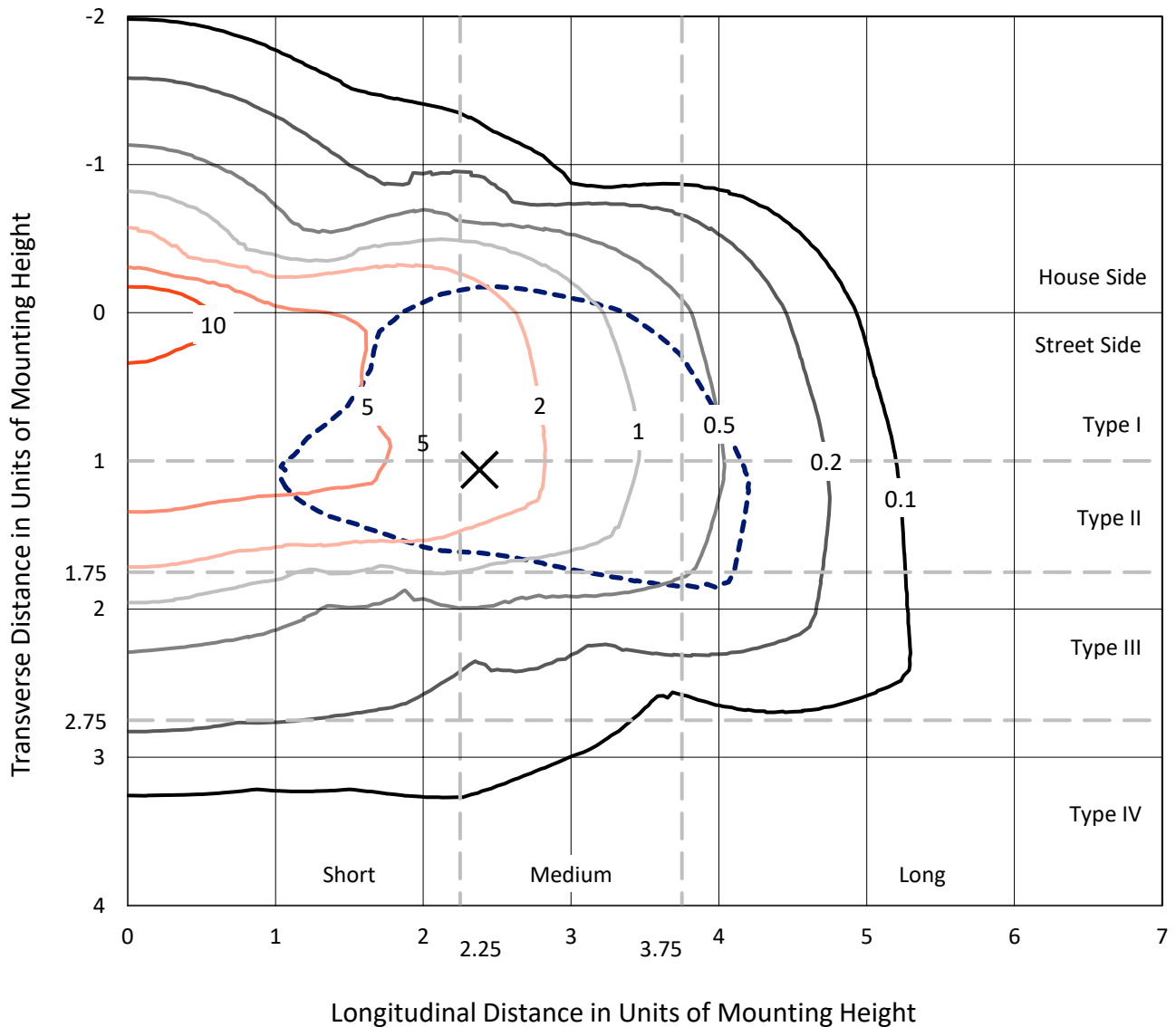
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

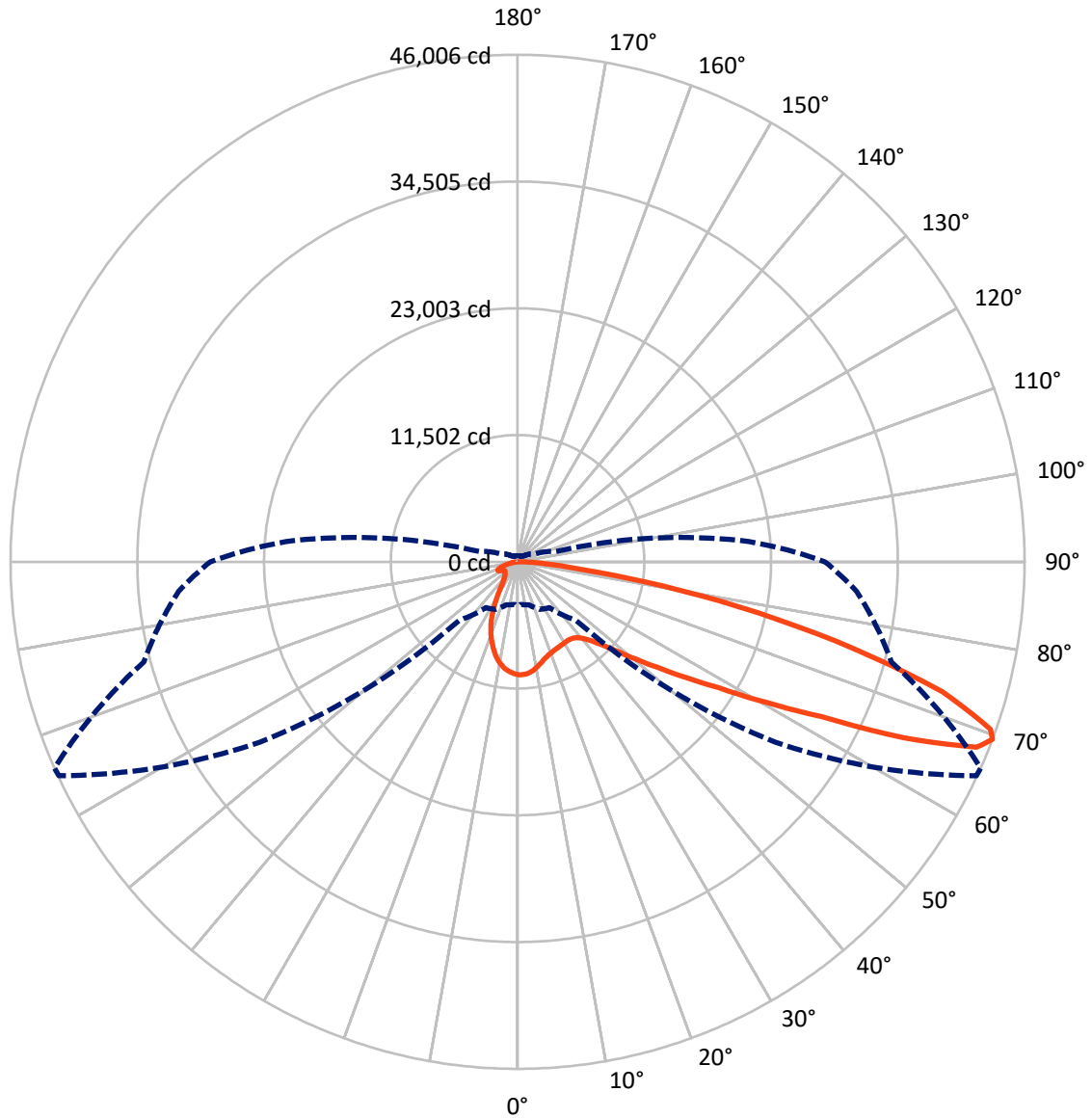
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8344.5   | 0.0    | 8344.5  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 36026.5  | 0.0    | 36026.5 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 44371.0  | 0.0    | 44371.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 889.8   | 2.0       |
| 10°-20°   | 2110.5  | 4.8       |
| 20°-30°   | 2873.2  | 6.5       |
| 30°-40°   | 3861.0  | 8.7       |
| 40°-50°   | 5765.1  | 13.0      |
| 50°-60°   | 9170.3  | 20.7      |
| 60°-70°   | 11278.9 | 25.4      |
| 70°-80°   | 7338.6  | 16.5      |
| 80°-90°   | 1083.7  | 2.4       |
| 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°    | 44371.0 | 100.0     |
| 0°-180°   | 44371.0 | 100.0     |

**Coefficient of Utilization**

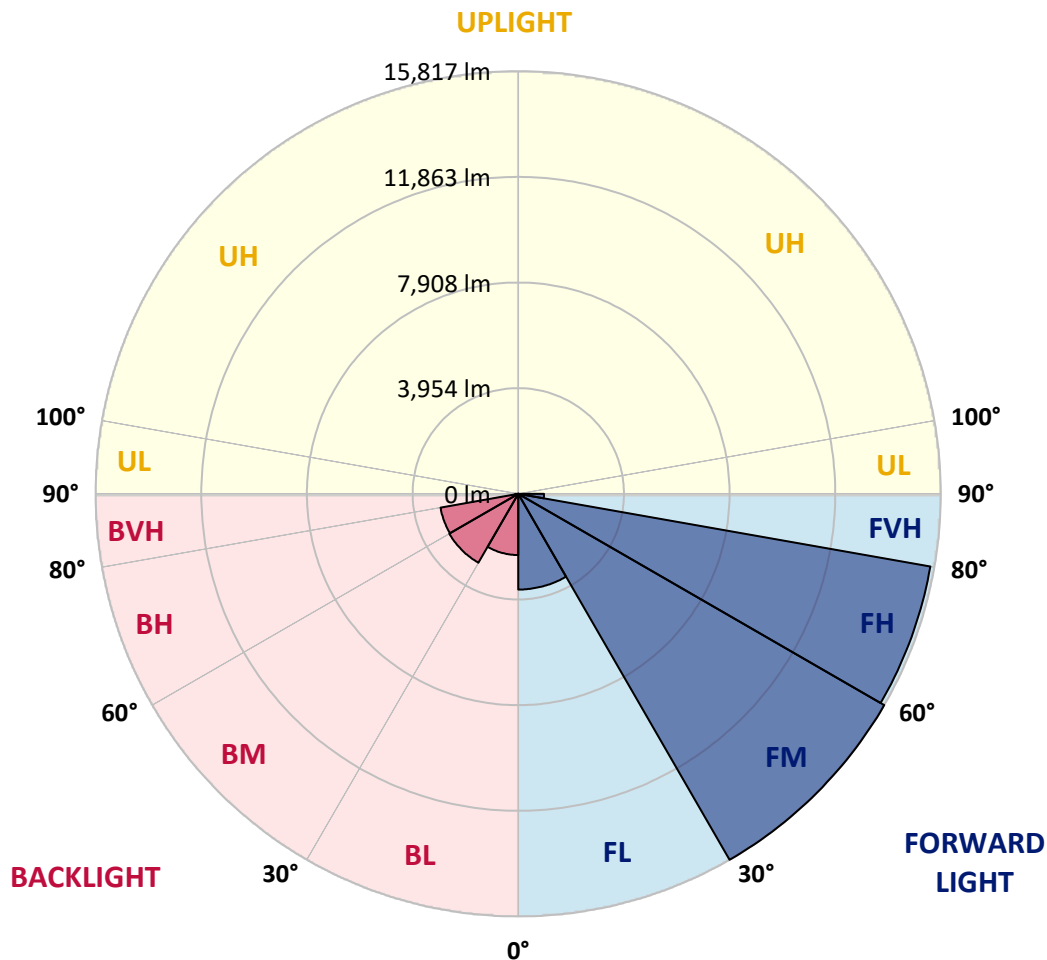


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3582.9  | 8.1       |                         |      |         |
| FM (30°-60°)   | 15816.9 | 35.6      |                         |      |         |
| FH (60°-80°)   | 15663.2 | 35.3      |                         |      | G5      |
| FVH (80°-90°)  | 963.5   | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 2290.6  | 5.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 2979.4  | 6.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 2954.3  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 120.2   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 |
| 2.5°  | 9887.7  | 9927.1  | 9971.3  | 10020.4 | 10113.9 | 10165.5 | 10202.3 | 10244.1 | 10249.0 | 10271.1 | 10253.9 |
| 5°    | 9158.0  | 9204.6  | 9271.0  | 9364.4  | 9504.4  | 9723.1  | 9949.2  | 10133.5 | 10155.6 | 10258.8 | 10288.3 |
| 7.5°  | 8548.6  | 8575.7  | 8629.7  | 8779.5  | 8978.6  | 9221.9  | 9551.1  | 9924.6  | 9978.7  | 10224.4 | 10310.4 |
| 10°   | 8052.2  | 8079.2  | 8143.1  | 8297.9  | 8494.5  | 8799.2  | 9160.4  | 9651.9  | 9696.1  | 10118.7 | 10315.3 |
| 12.5° | 7681.2  | 7705.7  | 7774.6  | 7926.9  | 8153.0  | 8438.0  | 8836.1  | 9357.0  | 9420.9  | 9978.7  | 10268.7 |
| 15°   | 7398.6  | 7445.3  | 7501.8  | 7627.1  | 7865.5  | 8140.7  | 8526.5  | 9086.7  | 9138.3  | 9831.3  | 10236.7 |
| 17.5° | 7278.2  | 7300.3  | 7339.6  | 7455.1  | 7629.6  | 7899.9  | 8288.1  | 8875.4  | 8936.8  | 9728.1  | 10229.3 |
| 20°   | 7283.2  | 7305.2  | 7312.6  | 7376.5  | 7501.8  | 7735.3  | 8118.6  | 8708.3  | 8782.0  | 9637.1  | 10241.6 |
| 22.5° | 7450.2  | 7452.7  | 7425.7  | 7403.5  | 7452.7  | 7646.8  | 7998.2  | 8583.0  | 8669.0  | 9597.8  | 10251.4 |
| 25°   | 7708.2  | 7752.5  | 7713.2  | 7609.9  | 7519.0  | 7612.4  | 7951.5  | 8514.2  | 8595.3  | 9541.3  | 10239.1 |
| 27.5° | 8126.0  | 8133.3  | 8101.4  | 7961.3  | 7725.4  | 7656.6  | 7931.8  | 8462.6  | 8531.4  | 9499.5  | 10177.7 |
| 30°   | 8686.2  | 8664.1  | 8634.6  | 8479.8  | 8108.7  | 7826.2  | 7973.6  | 8415.9  | 8487.2  | 9438.1  | 10104.0 |
| 32.5° | 9253.8  | 9322.6  | 9295.5  | 9113.7  | 8632.1  | 8155.4  | 8108.7  | 8411.0  | 8469.9  | 9391.4  | 10022.9 |
| 35°   | 9855.8  | 9887.7  | 10015.5 | 9922.2  | 9428.3  | 8688.6  | 8361.8  | 8487.2  | 8533.8  | 9393.9  | 9966.4  |
| 37.5° | 10327.6 | 10413.6 | 10713.4 | 10794.4 | 10330.0 | 9393.9  | 8772.2  | 8703.4  | 8723.0  | 9514.2  | 9988.5  |
| 40°   | 10897.6 | 11045.1 | 11430.9 | 11762.6 | 11457.9 | 10310.4 | 9470.1  | 9103.9  | 9128.4  | 9804.2  | 10133.5 |
| 42.5° | 11620.1 | 11723.3 | 12241.7 | 12691.4 | 12642.2 | 11521.8 | 10315.3 | 9760.0  | 9772.2  | 10381.6 | 10538.9 |
| 45°   | 12465.4 | 12612.8 | 13195.1 | 13870.8 | 13986.3 | 12892.9 | 11536.6 | 10752.7 | 10745.3 | 11278.6 | 11295.7 |
| 47.5° | 13546.5 | 13637.4 | 14214.9 | 14952.0 | 15418.9 | 14615.4 | 13018.2 | 12177.8 | 12099.2 | 12585.8 | 12445.7 |
| 50°   | 14541.7 | 14684.2 | 15121.6 | 15927.6 | 17089.8 | 16632.7 | 14966.8 | 14025.6 | 13841.4 | 14295.9 | 14060.1 |
| 52.5° | 14959.4 | 15109.3 | 15477.9 | 16477.9 | 18522.3 | 19242.3 | 17441.2 | 16229.8 | 15922.6 | 16271.5 | 16185.5 |
| 55°   | 14234.5 | 14428.7 | 14772.6 | 15988.9 | 19151.4 | 22252.4 | 20778.1 | 18777.9 | 18554.3 | 18404.4 | 18429.0 |
| 57.5° | 12286.0 | 12470.3 | 12934.7 | 14276.3 | 18399.5 | 24436.8 | 25542.6 | 22053.4 | 21574.2 | 20883.7 | 21001.6 |
| 60°   | 9352.1  | 9467.6  | 9708.4  | 11195.0 | 16170.8 | 25004.4 | 30953.3 | 26193.7 | 25889.0 | 23353.2 | 23436.8 |
| 62.5° | 6641.8  | 6772.0  | 6939.1  | 7681.2  | 11838.8 | 23404.8 | 35189.5 | 31975.5 | 30886.9 | 25911.1 | 25830.1 |
| 65°   | 5393.5  | 5305.1  | 5506.6  | 5853.0  | 6946.5  | 18139.1 | 36142.9 | 40000.7 | 38501.8 | 29280.0 | 28154.6 |
| 67.5° | 4435.2  | 4341.9  | 4540.9  | 5157.6  | 5283.0  | 10529.1 | 32707.7 | 45210.0 | 44910.1 | 32943.6 | 30515.9 |
| 69°   | 3926.6  | 3877.4  | 4051.9  | 4754.7  | 5071.6  | 7477.3  | 28493.6 | 45934.9 | 46006.1 | 35103.5 | 30879.6 |
| 70°   | 3538.4  | 3558.0  | 3727.5  | 4550.7  | 4975.8  | 6165.1  | 24353.3 | 44934.7 | 45539.2 | 36182.2 | 30486.4 |
| 72.5° | 2604.6  | 2646.4  | 2882.3  | 3769.4  | 4884.9  | 5231.4  | 14492.5 | 39248.8 | 40317.7 | 36246.1 | 27889.2 |
| 75°   | 1820.8  | 1801.1  | 2010.0  | 2838.1  | 4614.6  | 5184.7  | 8511.8  | 30353.8 | 31565.2 | 31329.2 | 23434.3 |
| 77.5° | 1191.7  | 1223.7  | 1390.8  | 2005.1  | 3882.3  | 5145.4  | 5548.3  | 21534.8 | 22321.1 | 20952.5 | 13861.1 |
| 80°   | 840.4   | 837.9   | 931.3   | 1368.7  | 2879.8  | 4943.9  | 4543.4  | 13573.5 | 13374.5 | 8234.0  | 4110.9  |
| 82.5° | 481.6   | 516.0   | 624.1   | 963.2   | 1926.4  | 4351.7  | 4179.7  | 6491.9  | 5926.8  | 2346.7  | 1388.3  |
| 85°   | 267.9   | 280.2   | 371.1   | 582.3   | 1125.4  | 3277.9  | 3648.9  | 2953.6  | 2786.5  | 980.4   | 597.1   |
| 87.5° | 86.0    | 93.4    | 154.8   | 294.9   | 511.1   | 1548.1  | 2066.5  | 1363.8  | 1258.0  | 353.8   | 240.8   |
| 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°    | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 | 10246.5 |
| 2.5°  | 10261.2 | 10290.7 | 10212.1 | 10135.9 | 10067.1 | 9971.3  | 9885.3  | 9814.0  | 9764.9  | 9757.5  | 9732.9  |
| 5°    | 10295.7 | 10298.1 | 10148.2 | 9946.8  | 9750.2  | 9533.9  | 9310.3  | 9150.6  | 9000.7  | 8917.2  | 8875.4  |
| 7.5°  | 10320.3 | 10298.1 | 10027.8 | 9701.0  | 9322.6  | 8929.5  | 8536.3  | 8221.8  | 7978.5  | 7882.7  | 7919.6  |
| 10°   | 10310.4 | 10241.6 | 9846.0  | 9322.6  | 8772.2  | 8184.9  | 7619.8  | 7177.4  | 6772.0  | 6563.2  | 6568.1  |
| 12.5° | 10256.4 | 10143.3 | 9575.7  | 8897.5  | 8089.1  | 7302.8  | 6437.8  | 5840.8  | 5371.5  | 5093.7  | 5007.8  |
| 15°   | 10209.6 | 10013.1 | 9258.7  | 8320.1  | 7315.1  | 6192.1  | 5138.0  | 4400.9  | 4007.7  | 3789.0  | 3786.5  |
| 17.5° | 10160.5 | 9887.7  | 8912.3  | 7708.2  | 6425.5  | 4980.7  | 3875.0  | 3312.3  | 3128.0  | 3150.1  | 3113.3  |
| 20°   | 10108.9 | 9740.4  | 8551.1  | 7027.6  | 5341.9  | 3715.3  | 2902.0  | 2673.4  | 2725.0  | 2825.8  | 2840.5  |
| 22.5° | 10050.0 | 9583.1  | 8162.8  | 6278.2  | 4201.8  | 2796.3  | 2354.0  | 2319.6  | 2452.3  | 2609.5  | 2631.7  |
| 25°   | 9959.0  | 9386.5  | 7673.8  | 5494.3  | 3241.1  | 2253.2  | 2061.6  | 2086.1  | 2216.4  | 2349.1  | 2363.8  |
| 27.5° | 9831.3  | 9143.2  | 7180.0  | 4516.3  | 2435.1  | 1933.8  | 1884.7  | 1916.6  | 1980.5  | 2061.6  | 2081.2  |
| 30°   | 9659.2  | 8868.0  | 6612.3  | 3671.0  | 1951.0  | 1774.1  | 1754.5  | 1771.6  | 1808.5  | 1842.9  | 1852.7  |
| 32.5° | 9487.2  | 8602.7  | 6039.7  | 2811.0  | 1739.7  | 1668.4  | 1648.8  | 1648.8  | 1648.8  | 1653.7  | 1656.1  |
| 35°   | 9327.5  | 8352.0  | 5425.5  | 2189.3  | 1629.1  | 1584.9  | 1557.9  | 1528.3  | 1523.5  | 1506.3  | 1506.3  |
| 37.5° | 9239.1  | 8123.5  | 4771.8  | 1833.1  | 1548.1  | 1516.1  | 1479.2  | 1430.1  | 1403.1  | 1405.5  | 1400.6  |
| 40°   | 9256.2  | 7973.6  | 4177.2  | 1631.6  | 1481.7  | 1447.3  | 1390.8  | 1334.2  | 1317.1  | 1317.1  | 1312.2  |
| 42.5° | 9450.3  | 7924.4  | 3607.2  | 1525.9  | 1417.8  | 1378.5  | 1307.2  | 1255.6  | 1245.8  | 1243.3  | 1248.3  |
| 45°   | 9897.6  | 8044.9  | 3096.1  | 1457.1  | 1363.8  | 1304.8  | 1233.5  | 1186.8  | 1177.0  | 1177.0  | 1174.6  |
| 47.5° | 10769.9 | 8435.6  | 2729.9  | 1412.9  | 1324.4  | 1248.3  | 1174.6  | 1127.8  | 1110.7  | 1105.8  | 1105.8  |
| 50°   | 12126.2 | 9283.2  | 2457.2  | 1373.5  | 1275.3  | 1196.7  | 1120.5  | 1066.4  | 1039.4  | 1036.9  | 1034.5  |
| 52.5° | 14010.9 | 10605.3 | 2351.5  | 1344.1  | 1221.2  | 1142.6  | 1059.1  | 1007.5  | 973.0   | 965.7   | 960.7   |
| 55°   | 16215.1 | 12450.6 | 2496.5  | 1321.9  | 1164.7  | 1081.2  | 995.2   | 941.1   | 909.1   | 894.4   | 892.0   |
| 57.5° | 18768.0 | 14667.0 | 3046.9  | 1292.5  | 1113.1  | 1014.8  | 931.3   | 877.2   | 842.8   | 825.6   | 820.7   |
| 60°   | 21060.7 | 16944.8 | 4007.7  | 1275.3  | 1068.9  | 943.6   | 857.5   | 808.4   | 776.5   | 759.3   | 756.8   |
| 62.5° | 23579.3 | 19116.9 | 5155.2  | 1321.9  | 1049.2  | 874.8   | 788.8   | 744.6   | 717.5   | 700.3   | 700.3   |
| 65°   | 26269.9 | 21291.6 | 5914.5  | 1479.2  | 1078.7  | 820.7   | 715.0   | 678.2   | 653.6   | 641.4   | 638.8   |
| 67.5° | 28083.3 | 22043.5 | 4872.6  | 1641.4  | 1152.4  | 761.7   | 643.8   | 614.3   | 599.5   | 587.2   | 587.2   |
| 69°   | 27886.7 | 21092.5 | 3594.9  | 1683.2  | 1174.6  | 732.3   | 604.5   | 582.3   | 562.7   | 557.8   | 552.9   |
| 70°   | 27265.1 | 20008.9 | 3012.5  | 1656.1  | 1157.4  | 705.2   | 579.9   | 552.9   | 535.7   | 530.7   | 528.3   |
| 72.5° | 24284.4 | 17352.7 | 2243.5  | 1439.9  | 985.3   | 611.8   | 513.6   | 489.0   | 474.3   | 466.9   | 466.9   |
| 75°   | 20176.0 | 14182.9 | 1752.0  | 1145.1  | 771.6   | 516.0   | 439.8   | 420.2   | 407.9   | 403.0   | 400.5   |
| 77.5° | 11308.0 | 7919.6  | 1258.0  | 896.8   | 584.8   | 417.7   | 368.6   | 351.4   | 339.1   | 334.2   | 334.2   |
| 80°   | 3150.1  | 2263.1  | 739.6   | 592.2   | 398.1   | 317.0   | 292.4   | 280.2   | 262.9   | 250.6   | 258.0   |
| 82.5° | 1186.8  | 980.4   | 422.7   | 356.3   | 253.1   | 211.3   | 204.0   | 194.1   | 186.7   | 169.5   | 169.5   |
| 85°   | 577.5   | 476.7   | 270.3   | 189.2   | 140.1   | 110.6   | 105.6   | 100.8   | 95.8    | 83.5    | 86.0    |
| 87.5° | 199.0   | 211.3   | 117.9   | 68.8    | 41.7    | 27.0    | 22.1    | 12.3    | 12.3    | 12.3    | 12.3    |
| 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)