

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: P534133

Luminaire Tested: **GLAN-SA9C-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-760-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37201 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

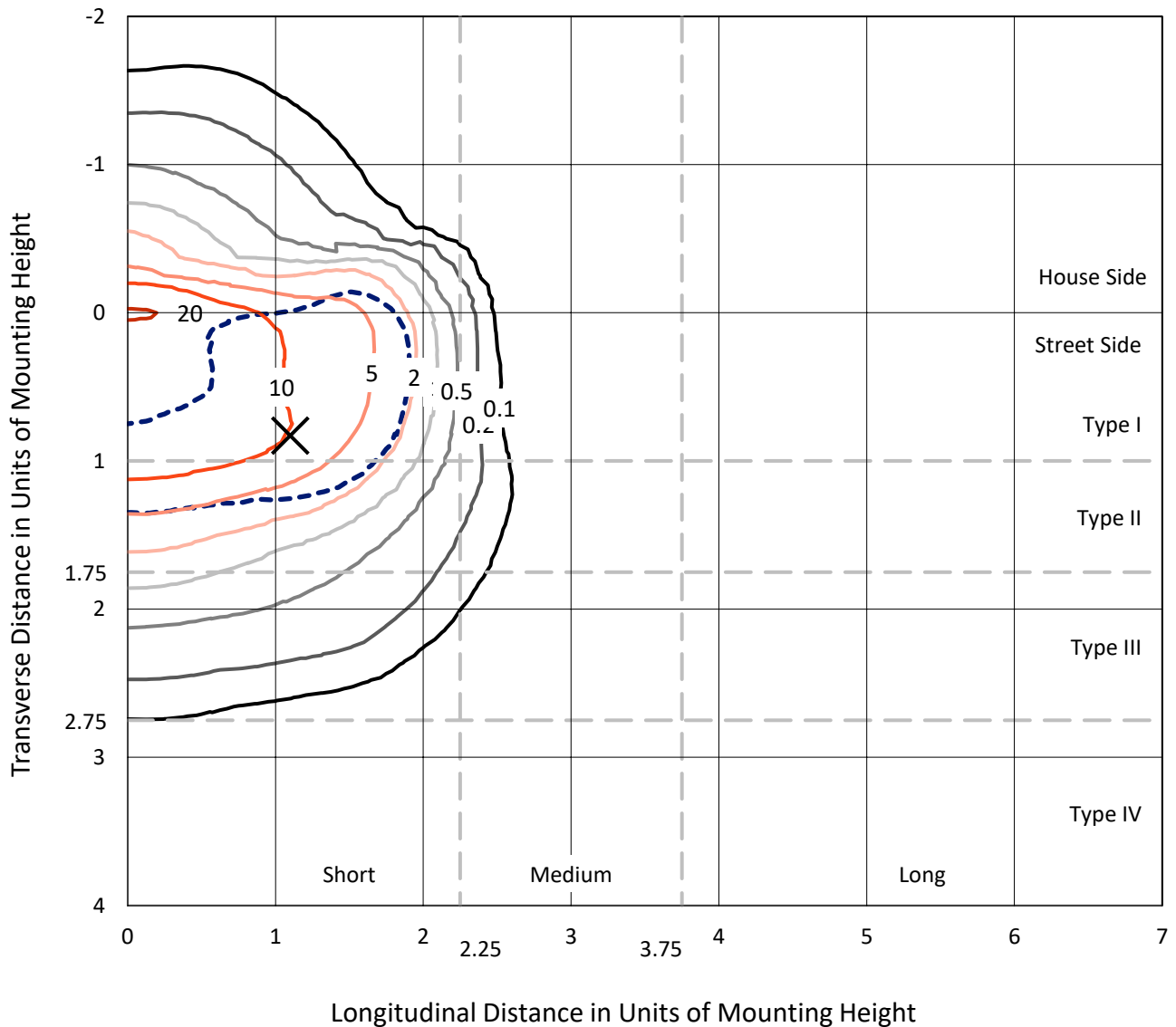
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

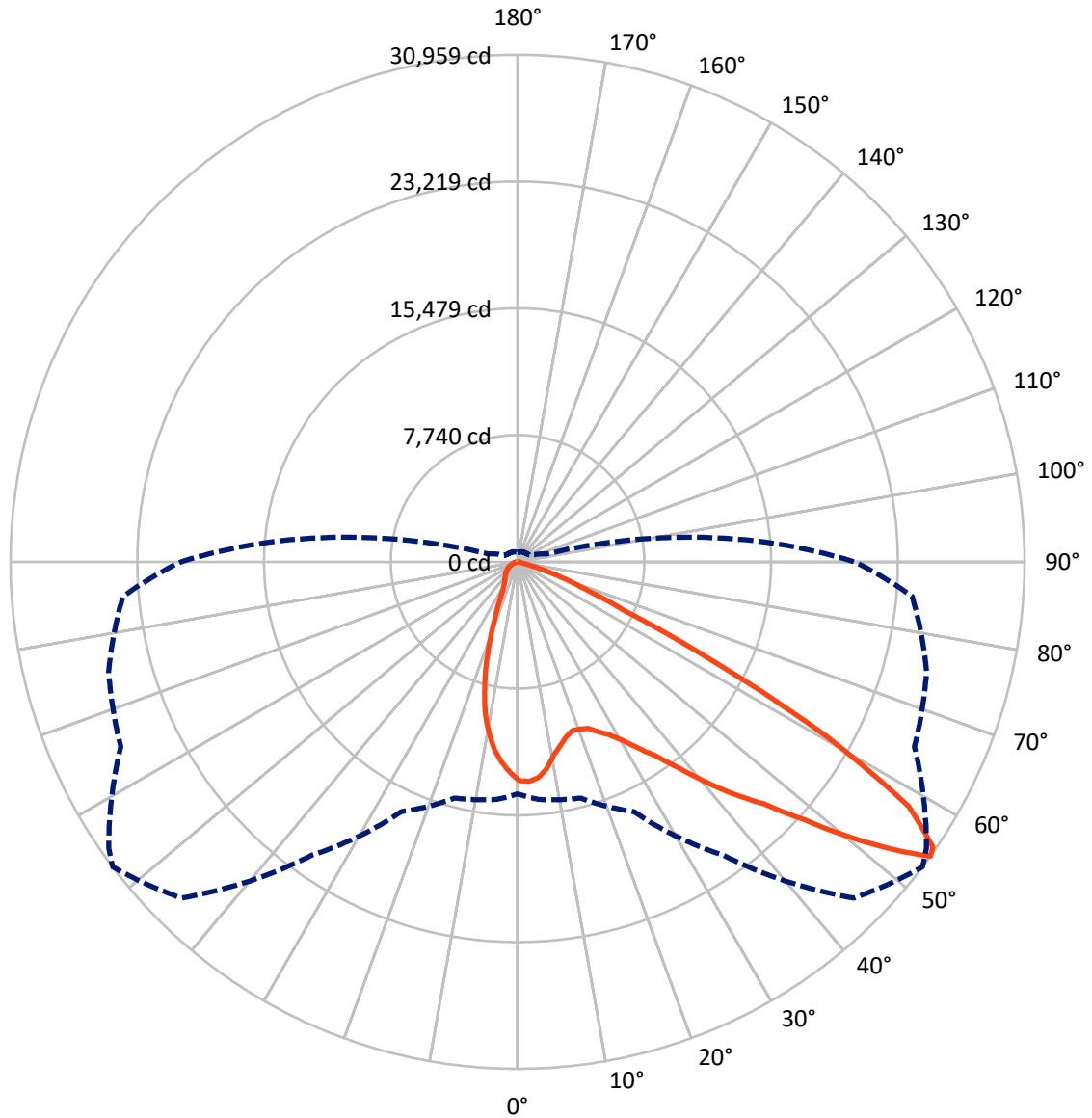
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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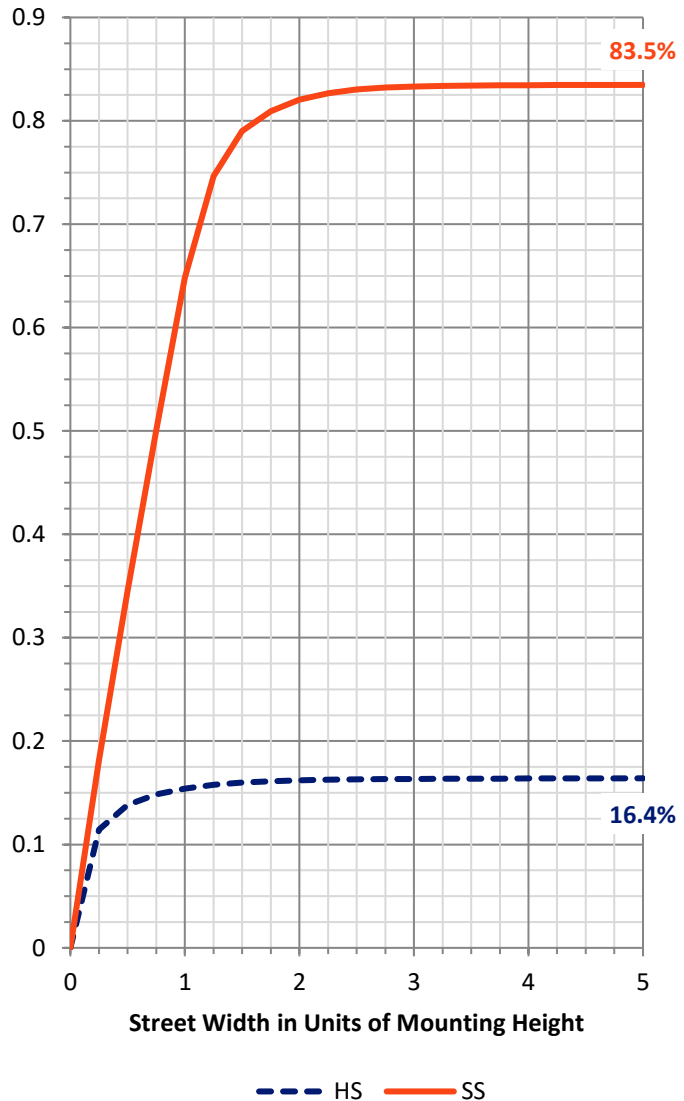
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6155.0   | 0.0    | 6155.0  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 31046.0  | 0.0    | 31046.0 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 37201.0  | 0.0    | 37201.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1146.4  | 3.1       |
| 10°-20°   | 2628.4  | 7.1       |
| 20°-30°   | 3735.5  | 10.0      |
| 30°-40°   | 5764.9  | 15.5      |
| 40°-50°   | 9038.8  | 24.3      |
| 50°-60°   | 10499.8 | 28.2      |
| 60°-70°   | 3967.5  | 10.7      |
| 70°-80°   | 377.3   | 1.0       |
| 80°-90°   | 42.5    | 0.1       |
| 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°    | 37201.0 | 100.0     |
| 0°-180°   | 37201.0 | 100.0     |

**Coefficient of Utilization**

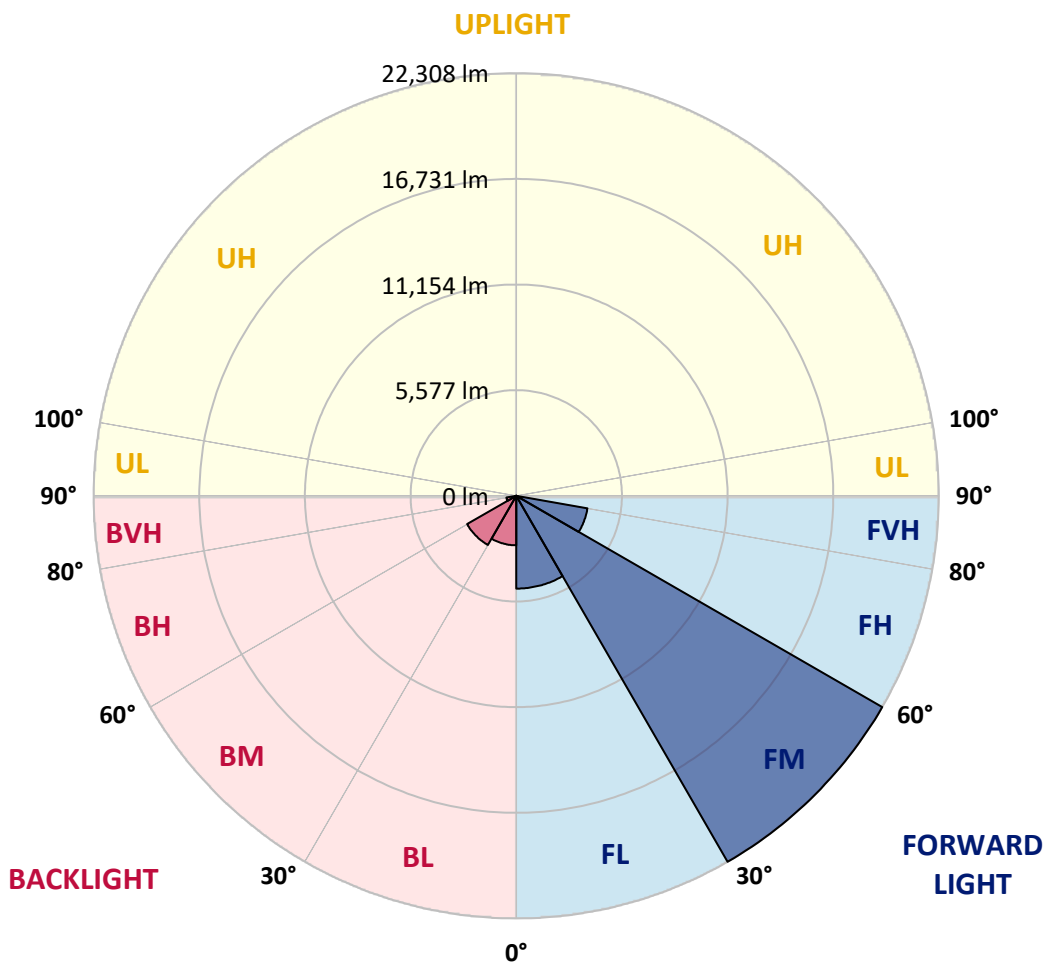


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4898.4  | 13.2      |                         |      |         |
| FM (30°-60°)   | 22308.3 | 60.0      |                         |      |         |
| FH (60°-80°)   | 3817.4  | 10.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 21.9    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2611.9  | 7.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 2995.2  | 8.1       | B3/5000                 |      |         |
| BH (60°-80°)   | 527.3   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 20.5    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 |
| 2.5°  | 13292.7 | 13174.8 | 13292.7 | 13306.5 | 13389.7 | 13465.9 | 13417.4 | 13528.3 | 13465.9 | 13396.6 | 13375.8 |
| 5°    | 12218.4 | 12377.8 | 12384.8 | 12634.3 | 12578.8 | 13036.2 | 13237.2 | 13181.8 | 13521.4 | 13500.6 | 13452.1 |
| 7.5°  | 11255.1 | 11192.7 | 11275.9 | 11567.0 | 11934.3 | 12461.0 | 12752.1 | 12745.2 | 13230.3 | 13576.8 | 13542.2 |
| 10°   | 10361.1 | 10354.1 | 10527.4 | 10756.1 | 11068.0 | 11622.4 | 12024.4 | 12225.4 | 12980.8 | 13507.5 | 13583.7 |
| 12.5° | 9758.1  | 9730.4  | 9917.5  | 10104.6 | 10596.7 | 11026.4 | 11539.3 | 11636.3 | 12502.6 | 13264.9 | 13389.7 |
| 15°   | 9363.1  | 9425.5  | 9439.3  | 9799.7  | 10111.6 | 10679.9 | 11081.8 | 11282.8 | 12280.8 | 13070.9 | 13549.1 |
| 17.5° | 9293.8  | 9376.9  | 9383.9  | 9681.9  | 10014.5 | 10492.8 | 10846.2 | 11116.5 | 12093.7 | 13167.9 | 13556.0 |
| 20°   | 9432.4  | 9383.9  | 9425.5  | 9612.6  | 9938.3  | 10395.7 | 10908.6 | 10998.7 | 12031.3 | 13216.4 | 13632.3 |
| 22.5° | 9827.4  | 9813.6  | 9709.6  | 9862.1  | 10090.8 | 10569.0 | 11054.1 | 11192.7 | 12211.5 | 13465.9 | 13694.6 |
| 25°   | 10264.0 | 10340.3 | 10243.3 | 10222.5 | 10381.9 | 10853.1 | 11497.7 | 11677.9 | 12814.5 | 13916.4 | 13888.7 |
| 27.5° | 11081.8 | 11005.6 | 11005.6 | 10908.6 | 10867.0 | 11095.7 | 11975.9 | 12273.9 | 13486.7 | 14498.6 | 14110.5 |
| 30°   | 11865.0 | 11948.2 | 11885.8 | 11920.4 | 11643.2 | 11622.4 | 12655.1 | 13022.4 | 14678.8 | 15385.7 | 14581.7 |
| 32.5° | 13105.5 | 12994.7 | 13098.6 | 13008.5 | 12641.2 | 12267.0 | 13576.8 | 13958.0 | 16120.3 | 16404.5 | 15288.6 |
| 35°   | 14138.2 | 14089.7 | 14533.2 | 14519.4 | 13923.3 | 13556.0 | 14554.0 | 15122.3 | 17125.2 | 17624.2 | 16120.3 |
| 37.5° | 15607.4 | 15517.4 | 16023.3 | 16265.8 | 15732.2 | 15184.7 | 15954.0 | 16612.4 | 18060.8 | 18601.4 | 16972.8 |
| 40°   | 17118.3 | 17347.0 | 18026.2 | 18428.2 | 17859.9 | 17132.2 | 17665.8 | 17866.8 | 18684.6 | 19239.0 | 17554.9 |
| 42.5° | 19031.1 | 19363.8 | 20056.8 | 20403.3 | 20354.8 | 19564.8 | 19405.4 | 19398.4 | 19135.1 | 19058.8 | 17984.6 |
| 45°   | 20867.7 | 20742.9 | 21810.2 | 22565.7 | 23175.5 | 22946.8 | 21082.5 | 20874.6 | 19848.9 | 19329.1 | 18095.5 |
| 47.5° | 21671.6 | 21630.0 | 22357.7 | 23702.3 | 25781.4 | 26065.5 | 23522.1 | 22718.1 | 21054.8 | 20465.7 | 18698.4 |
| 50°   | 20632.0 | 20846.9 | 21567.7 | 23057.7 | 26245.7 | 28415.0 | 26516.0 | 25434.9 | 22461.7 | 21851.8 | 20126.1 |
| 52.5° | 17236.1 | 17381.7 | 18067.8 | 19959.8 | 24665.6 | 29801.1 | 29385.2 | 28761.5 | 25046.8 | 24034.9 | 22614.2 |
| 54°   | 14172.8 | 14560.9 | 14935.2 | 16834.1 | 21851.8 | 29031.8 | 30958.5 | 30480.3 | 26730.9 | 25850.7 | 24180.5 |
| 55°   | 12343.2 | 12571.9 | 12842.2 | 14734.2 | 19904.3 | 27728.9 | 30778.3 | 30819.9 | 27860.5 | 26419.0 | 25233.9 |
| 57.5° | 9016.6  | 9176.0  | 8898.7  | 9737.3  | 13666.9 | 22517.1 | 28151.6 | 29274.4 | 29385.2 | 27271.5 | 25878.4 |
| 60°   | 6888.9  | 6958.2  | 6646.3  | 6778.0  | 8496.8  | 15455.0 | 21775.6 | 23127.0 | 26509.1 | 23833.9 | 21921.1 |
| 62.5° | 5343.4  | 5357.3  | 5350.3  | 5579.0  | 5856.3  | 9092.8  | 13618.4 | 14817.4 | 18275.7 | 16924.2 | 14886.7 |
| 65°   | 3936.5  | 3874.1  | 3985.0  | 4678.1  | 4996.9  | 5717.6  | 7173.1  | 8046.3  | 9931.4  | 8385.9  | 5994.9  |
| 67.5° | 2550.4  | 2571.2  | 2682.1  | 3479.1  | 4283.0  | 4387.0  | 4414.7  | 4345.4  | 4352.3  | 2397.9  | 1503.9  |
| 70°   | 1531.6  | 1566.3  | 1531.6  | 1968.3  | 3063.3  | 3146.4  | 2876.2  | 2806.8  | 2190.0  | 568.3   | 561.4   |
| 72.5° | 907.9   | 859.4   | 769.3   | 845.5   | 1275.2  | 1524.7  | 1372.2  | 1365.3  | 859.4   | 332.7   | 332.7   |
| 75°   | 381.2   | 346.5   | 284.1   | 256.4   | 339.6   | 325.7   | 325.7   | 291.1   | 228.7   | 221.8   | 207.9   |
| 77.5° | 76.2    | 76.2    | 55.4    | 62.4    | 83.2    | 97.0    | 117.8   | 117.8   | 138.6   | 138.6   | 131.7   |
| 80°   | 0.0     | 6.9     | 20.8    | 41.6    | 62.4    | 90.1    | 104.0   | 104.0   | 117.8   | 117.8   | 97.0    |
| 82.5° | 0.0     | 6.9     | 20.8    | 41.6    | 55.4    | 83.2    | 104.0   | 104.0   | 117.8   | 124.7   | 104.0   |
| 85°   | 0.0     | 6.9     | 20.8    | 34.7    | 55.4    | 69.3    | 69.3    | 62.4    | 48.5    | 41.6    | 27.7    |
| 87.5° | 0.0     | 0.0     | 6.9     | 13.9    | 6.9     | 13.9    | 13.9    | 13.9    | 13.9    | 13.9    | 13.9    |
| 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°    | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 |
| 2.5°  | 13424.3 | 13417.4 | 13251.1 | 12980.8 | 12918.4 | 12689.7 | 12662.0 | 12523.4 | 12599.6 | 12343.2 | 12315.5 |
| 5°    | 13313.5 | 13230.3 | 13029.3 | 12856.0 | 12350.1 | 11989.7 | 11705.6 | 11359.1 | 11158.1 | 11192.7 | 11061.1 |
| 7.5°  | 13472.9 | 13258.0 | 12904.6 | 12301.6 | 11684.8 | 11054.1 | 10714.5 | 10007.6 | 9751.2  | 9370.0  | 9314.6  |
| 10°   | 13306.5 | 13147.1 | 12599.6 | 11601.6 | 10749.2 | 9841.3  | 9044.3  | 8261.1  | 7665.1  | 7408.7  | 7353.2  |
| 12.5° | 13292.7 | 13015.4 | 12100.6 | 10991.7 | 9758.1  | 8455.2  | 7297.8  | 6320.6  | 5731.5  | 5398.8  | 5322.6  |
| 15°   | 13077.8 | 12745.2 | 11539.3 | 10049.2 | 8344.3  | 6722.6  | 5461.2  | 4518.7  | 4068.2  | 3874.1  | 3929.6  |
| 17.5° | 13098.6 | 12599.6 | 10977.9 | 9051.2  | 6951.3  | 4934.5  | 3728.6  | 3243.5  | 3125.6  | 3174.2  | 3174.2  |
| 20°   | 13077.8 | 12273.9 | 10298.7 | 7900.8  | 5322.6  | 3423.7  | 2737.5  | 2564.3  | 2640.5  | 2793.0  | 2758.3  |
| 22.5° | 12966.9 | 12121.4 | 9675.0  | 6687.9  | 3915.7  | 2536.6  | 2197.0  | 2203.9  | 2321.7  | 2508.8  | 2550.4  |
| 25°   | 13050.1 | 11781.8 | 8884.9  | 5461.2  | 2855.4  | 2023.7  | 1905.9  | 1954.4  | 2079.1  | 2217.8  | 2245.5  |
| 27.5° | 12987.7 | 11539.3 | 8060.2  | 4241.5  | 2086.1  | 1739.6  | 1732.6  | 1788.1  | 1843.5  | 1947.5  | 1947.5  |
| 30°   | 13057.0 | 11317.5 | 7249.3  | 3153.4  | 1718.8  | 1594.0  | 1566.3  | 1607.9  | 1663.3  | 1684.1  | 1677.2  |
| 32.5° | 13313.5 | 11151.1 | 6313.7  | 2356.4  | 1517.8  | 1455.4  | 1455.4  | 1455.4  | 1448.5  | 1476.2  | 1483.1  |
| 35°   | 13874.8 | 11178.9 | 5488.9  | 1822.7  | 1386.1  | 1337.6  | 1316.8  | 1289.1  | 1275.2  | 1289.1  | 1296.0  |
| 37.5° | 14484.7 | 11165.0 | 4636.5  | 1552.4  | 1289.1  | 1247.5  | 1199.0  | 1157.4  | 1150.5  | 1164.3  | 1143.5  |
| 40°   | 14755.0 | 11296.7 | 3846.4  | 1393.0  | 1199.0  | 1150.5  | 1074.2  | 1039.6  | 1046.5  | 1060.4  | 1046.5  |
| 42.5° | 15122.3 | 11338.3 | 3333.6  | 1268.3  | 1115.8  | 1039.6  | 991.1   | 949.5   | 942.5   | 963.3   | 956.4   |
| 45°   | 15115.4 | 11102.6 | 2793.0  | 1199.0  | 1039.6  | 956.4   | 894.0   | 859.4   | 859.4   | 873.2   | 880.2   |
| 47.5° | 15558.9 | 11068.0 | 2397.9  | 1136.6  | 984.1   | 901.0   | 824.7   | 797.0   | 790.1   | 790.1   | 776.2   |
| 50°   | 16591.6 | 11553.1 | 2093.0  | 1067.3  | 914.8   | 838.6   | 776.2   | 741.6   | 713.8   | 700.0   | 693.0   |
| 52.5° | 18608.3 | 13064.0 | 1857.4  | 984.1   | 838.6   | 776.2   | 720.8   | 693.0   | 658.4   | 623.7   | 616.8   |
| 54°   | 20562.7 | 14623.3 | 1843.5  | 914.8   | 776.2   | 734.6   | 686.1   | 672.3   | 630.7   | 582.2   | 568.3   |
| 55°   | 21442.9 | 15531.2 | 1892.0  | 859.4   | 734.6   | 706.9   | 665.3   | 651.5   | 609.9   | 554.4   | 547.5   |
| 57.5° | 22170.6 | 15884.7 | 1864.3  | 713.8   | 665.3   | 658.4   | 623.7   | 603.0   | 554.4   | 478.2   | 464.3   |
| 60°   | 17846.0 | 12010.5 | 1337.6  | 630.7   | 609.9   | 596.0   | 568.3   | 554.4   | 492.1   | 408.9   | 402.0   |
| 62.5° | 11275.9 | 6909.7  | 852.4   | 554.4   | 533.6   | 512.9   | 478.2   | 464.3   | 408.9   | 325.7   | 304.9   |
| 65°   | 4802.8  | 2862.3  | 575.2   | 492.1   | 457.4   | 422.8   | 395.0   | 374.2   | 325.7   | 242.6   | 235.6   |
| 67.5° | 1247.5  | 1018.8  | 478.2   | 429.7   | 381.2   | 332.7   | 311.9   | 277.2   | 221.8   | 166.3   | 159.4   |
| 70°   | 561.4   | 512.9   | 402.0   | 360.4   | 304.9   | 256.4   | 228.7   | 194.1   | 145.5   | 110.9   | 104.0   |
| 72.5° | 332.7   | 325.7   | 304.9   | 270.3   | 228.7   | 194.1   | 166.3   | 131.7   | 97.0    | 62.4    | 62.4    |
| 75°   | 207.9   | 201.0   | 207.9   | 187.1   | 159.4   | 145.5   | 124.7   | 90.1    | 55.4    | 27.7    | 27.7    |
| 77.5° | 124.7   | 124.7   | 124.7   | 117.8   | 110.9   | 110.9   | 90.1    | 55.4    | 27.7    | 6.9     | 6.9     |
| 80°   | 97.0    | 97.0    | 104.0   | 97.0    | 97.0    | 97.0    | 76.2    | 41.6    | 13.9    | 0.0     | 0.0     |
| 82.5° | 97.0    | 104.0   | 117.8   | 110.9   | 97.0    | 83.2    | 69.3    | 41.6    | 13.9    | 0.0     | 0.0     |
| 85°   | 27.7    | 20.8    | 34.7    | 48.5    | 69.3    | 62.4    | 48.5    | 34.7    | 13.9    | 0.0     | 0.0     |
| 87.5° | 13.9    | 13.9    | 13.9    | 13.9    | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     | 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)