

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: P192888

Luminaire Tested: **GAN-AF-10-LED-U-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-SL3-7030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53401.6 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 640  
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: 28.75 FT

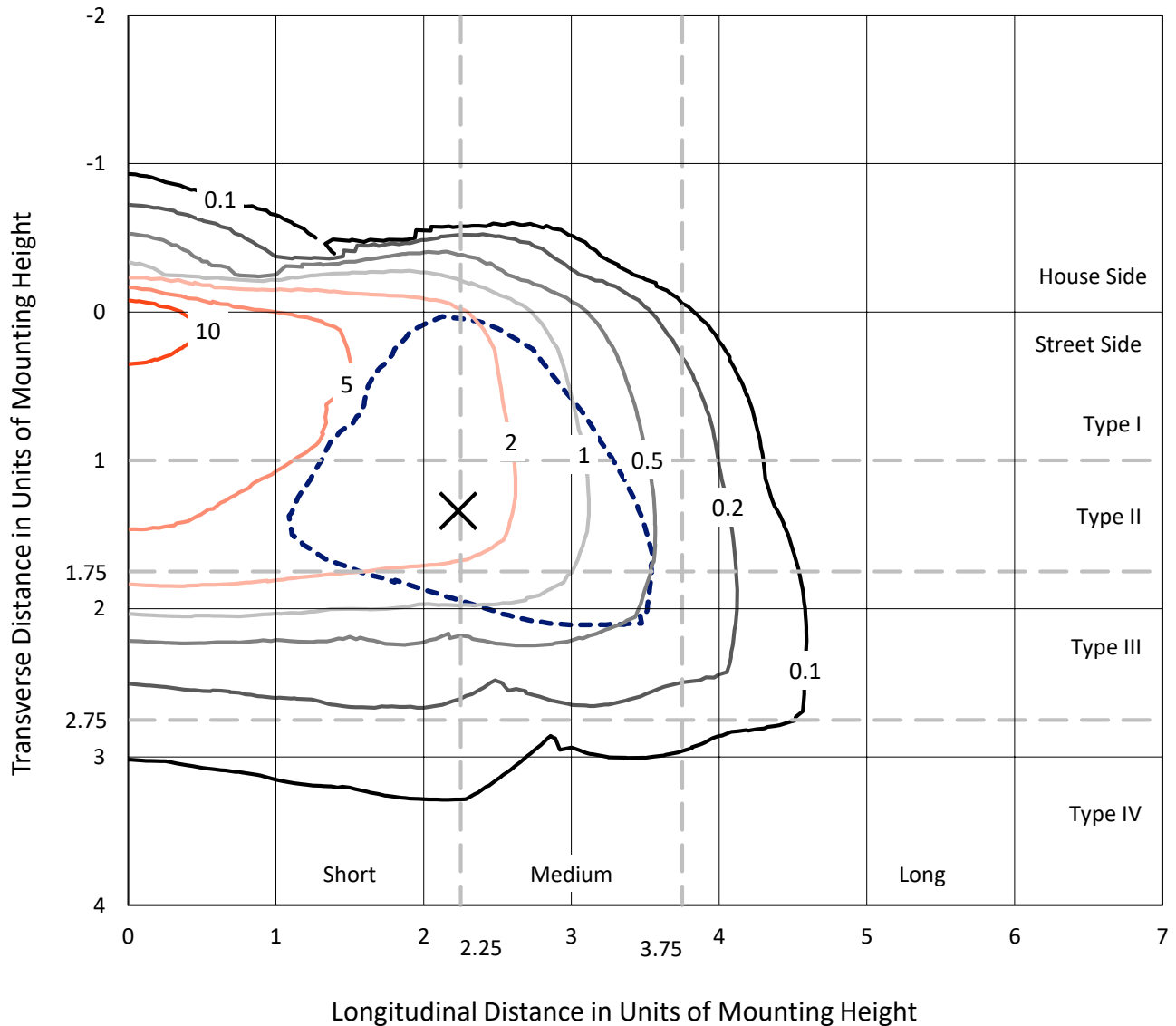


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

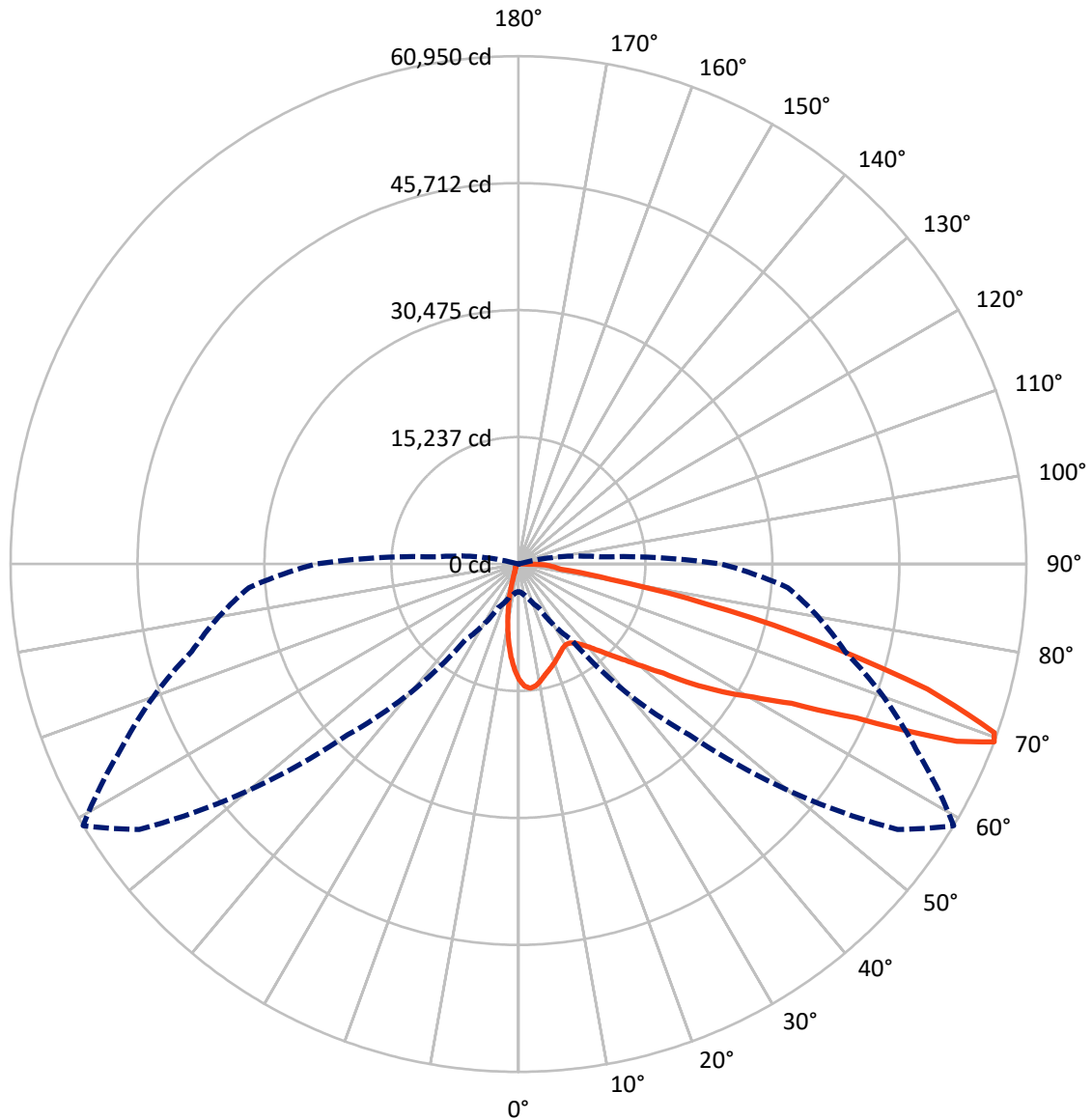


Based on 30 foot mounting height. Maximum calculated value = 15.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4348.9   | 0.0    | 4348.9  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 49052.7  | 0.0    | 49052.7 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 53401.6  | 0.0    | 53401.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1128.2  | 2.1       |
| 10°-20°   | 2331.3  | 4.4       |
| 20°-30°   | 3137.0  | 5.9       |
| 30°-40°   | 4554.7  | 8.5       |
| 40°-50°   | 7584.0  | 14.2      |
| 50°-60°   | 11830.9 | 22.2      |
| 60°-70°   | 14639.8 | 27.4      |
| 70°-80°   | 7419.3  | 13.9      |
| 80°-90°   | 776.3   | 1.5       |
| 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°    | 53401.6 | 100.0     |
| 0°-180°   | 53401.6 | 100.0     |



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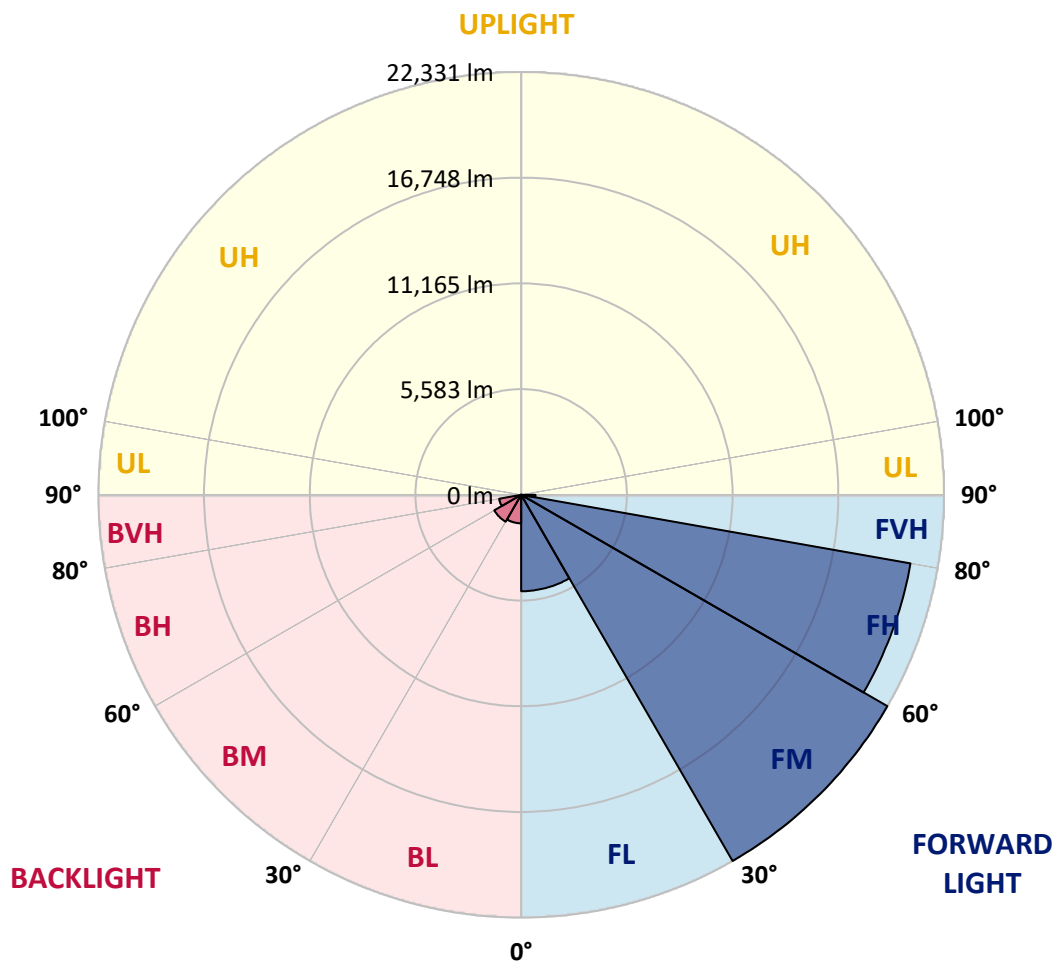
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5091.2  | 9.5       |                         |      |         |
| FM (30°-60°)   | 22331.0 | 41.8      |                         |      |         |
| FH (60°-80°)   | 20878.1 | 39.1      |                         |      | G5      |
| FVH (80°-90°)  | 752.4   | 1.4       |                         |      | G5      |
| BL (0°-30°)    | 1505.3  | 2.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 1638.6  | 3.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 1181.0  | 2.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 23.9    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 |
| 2.5°  | 15234.3 | 15228.3 | 15161.9 | 15131.8 | 15077.3 | 14962.6 | 14784.4 | 14690.9 | 14539.9 | 14277.1 | 13923.9 |
| 5°    | 15095.5 | 15167.9 | 15207.2 | 15210.2 | 15249.6 | 15207.2 | 15047.1 | 14968.6 | 14760.3 | 14337.5 | 13703.4 |
| 7.5°  | 14153.3 | 14180.5 | 14292.2 | 14388.9 | 14576.1 | 14754.3 | 14811.6 | 14778.4 | 14654.6 | 14201.6 | 13359.1 |
| 10°   | 13144.8 | 13172.0 | 13304.8 | 13431.7 | 13685.3 | 13960.0 | 14249.9 | 14310.3 | 14361.7 | 14008.3 | 13027.0 |
| 12.5° | 12275.1 | 12302.3 | 12438.2 | 12604.2 | 12900.1 | 13238.4 | 13688.3 | 13788.0 | 14014.4 | 13824.2 | 12761.3 |
| 15°   | 11526.2 | 11538.4 | 11671.2 | 11876.5 | 12229.8 | 12664.7 | 13174.9 | 13335.0 | 13682.3 | 13694.3 | 12528.8 |
| 17.5° | 10889.0 | 10919.3 | 11000.8 | 11197.1 | 11583.5 | 12121.1 | 12715.9 | 12945.5 | 13353.1 | 13585.7 | 12302.3 |
| 20°   | 10499.5 | 10529.8 | 10526.7 | 10635.4 | 10982.6 | 11556.4 | 12256.9 | 12531.7 | 13027.0 | 13474.0 | 12099.9 |
| 22.5° | 10424.0 | 10424.0 | 10345.5 | 10330.4 | 10535.8 | 11015.8 | 11779.9 | 12115.0 | 12734.0 | 13425.6 | 11958.0 |
| 25°   | 10692.7 | 10680.6 | 10484.4 | 10324.4 | 10333.4 | 10620.3 | 11317.8 | 11716.4 | 12486.4 | 13458.8 | 11882.5 |
| 27.5° | 11260.5 | 11245.4 | 10997.7 | 10692.7 | 10448.1 | 10445.1 | 10967.6 | 11396.4 | 12290.1 | 13615.9 | 11912.7 |
| 30°   | 12045.7 | 12039.5 | 11770.8 | 11387.3 | 10943.4 | 10535.8 | 10846.8 | 11236.3 | 12163.4 | 13899.6 | 11982.1 |
| 32.5° | 12903.2 | 12894.1 | 12691.8 | 12287.2 | 11725.4 | 10943.4 | 10973.6 | 11299.7 | 12199.6 | 14277.1 | 12151.3 |
| 35°   | 13812.1 | 13797.0 | 13709.5 | 13356.2 | 12737.1 | 11695.3 | 11390.3 | 11644.0 | 12429.2 | 14841.9 | 12483.4 |
| 37.5° | 14796.6 | 14811.6 | 14875.1 | 14536.8 | 13887.6 | 12749.1 | 12087.9 | 12260.0 | 12891.1 | 15608.9 | 13023.9 |
| 40°   | 16249.0 | 16246.0 | 16267.2 | 15823.3 | 15198.2 | 14038.6 | 13063.2 | 13117.5 | 13664.2 | 16626.5 | 13845.4 |
| 42.5° | 18885.3 | 18701.1 | 18142.4 | 17236.4 | 16608.4 | 15512.2 | 14292.2 | 14234.9 | 14609.3 | 17885.7 | 14995.9 |
| 45°   | 22427.3 | 22034.8 | 20585.3 | 18849.0 | 18045.7 | 17173.1 | 15805.1 | 15620.9 | 15859.4 | 19398.6 | 16415.1 |
| 47.5° | 25474.3 | 25066.6 | 23016.1 | 20527.9 | 19570.7 | 18749.3 | 17577.6 | 17245.5 | 17324.0 | 21092.6 | 18214.8 |
| 50°   | 26510.0 | 26310.6 | 24520.0 | 21989.5 | 21047.2 | 20733.2 | 19634.1 | 19229.4 | 19117.7 | 23052.4 | 20301.5 |
| 52.5° | 26150.6 | 26135.5 | 24942.7 | 22937.7 | 22400.2 | 22786.7 | 22222.0 | 21753.9 | 21343.2 | 25117.8 | 22424.3 |
| 55°   | 25573.9 | 25649.3 | 25114.9 | 23768.0 | 23749.9 | 24661.9 | 25761.0 | 25371.5 | 24181.8 | 27361.5 | 24254.3 |
| 57.5° | 23982.5 | 24305.6 | 25018.1 | 25338.4 | 26081.2 | 27014.3 | 28708.3 | 28937.8 | 27530.6 | 29079.7 | 25773.1 |
| 60°   | 19459.0 | 20168.6 | 22499.8 | 25564.8 | 29085.8 | 31411.0 | 32265.5 | 32461.8 | 30278.6 | 30508.0 | 27823.5 |
| 62.5° | 13812.1 | 14536.8 | 17493.2 | 22678.0 | 29131.0 | 37187.6 | 37565.1 | 36795.0 | 33304.3 | 32624.9 | 31359.6 |
| 65°   | 7331.9  | 7890.4  | 10306.2 | 16369.8 | 25256.8 | 38528.4 | 46832.6 | 44537.6 | 38643.2 | 36789.0 | 35928.4 |
| 67.5° | 3750.5  | 3919.5  | 4879.8  | 8011.2  | 17363.3 | 34222.3 | 55139.8 | 56755.3 | 47844.2 | 40920.0 | 35708.0 |
| 69°   | 3318.6  | 3418.2  | 4055.4  | 5791.9  | 11118.6 | 28986.2 | 55544.3 | 60949.6 | 52660.6 | 40575.7 | 32449.7 |
| 70°   | 3213.0  | 3300.5  | 3880.4  | 5242.2  | 8690.7  | 24308.5 | 53995.3 | 60581.2 | 53892.5 | 39265.1 | 30015.8 |
| 72.5° | 2726.8  | 2802.3  | 3454.6  | 4632.3  | 7063.1  | 12066.7 | 43861.1 | 51334.9 | 48360.6 | 32709.4 | 21726.8 |
| 75°   | 1823.9  | 2071.5  | 3315.6  | 4342.3  | 6570.9  | 6854.7  | 28916.7 | 37097.1 | 34460.8 | 22061.9 | 11317.8 |
| 77.5° | 437.9   | 471.1   | 936.2   | 3454.6  | 6009.3  | 6033.4  | 14872.1 | 23061.5 | 18809.7 | 7863.3  | 2675.4  |
| 80°   | 235.6   | 226.5   | 262.8   | 685.5   | 5595.5  | 5662.0  | 6694.7  | 11194.0 | 6715.8  | 1304.5  | 881.7   |
| 82.5° | 166.1   | 157.0   | 169.2   | 287.0   | 1760.5  | 5157.7  | 4843.6  | 5067.0  | 2784.2  | 501.3   | 395.6   |
| 85°   | 60.4    | 57.4    | 93.6    | 259.7   | 552.7   | 2965.3  | 4976.4  | 4179.2  | 2255.7  | 229.5   | 289.9   |
| 87.5° | 21.1    | 18.1    | 36.3    | 141.9   | 169.2   | 1262.3  | 3071.1  | 3158.5  | 887.8   | 138.9   | 135.9   |
| 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°    | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 | 13899.6 |
| 2.5°  | 13775.9 | 13588.7 | 13244.4 | 12891.1 | 12565.0 | 12172.5 | 11976.1 | 11782.8 | 11701.3 | 11671.2 | 11529.2 |
| 5°    | 13377.2 | 13060.2 | 12329.5 | 11595.6 | 10919.3 | 10200.6 | 9726.5  | 9345.9  | 9122.5  | 9013.8  | 8841.7  |
| 7.5°  | 12866.9 | 12347.6 | 11239.3 | 10106.9 | 9053.1  | 8014.2  | 7244.2  | 6652.4  | 6244.7  | 6048.5  | 5870.3  |
| 10°   | 12371.8 | 11680.3 | 10104.0 | 8560.9  | 7129.5  | 5752.5  | 4689.6  | 3919.5  | 3427.4  | 3200.9  | 3056.0  |
| 12.5° | 11927.9 | 11031.0 | 9007.8  | 7054.0  | 5257.3  | 3644.8  | 2563.8  | 1950.8  | 1645.8  | 1540.0  | 1488.7  |
| 15°   | 11532.2 | 10433.0 | 7972.0  | 5622.7  | 3560.2  | 2083.6  | 1401.1  | 1192.8  | 1144.5  | 1144.5  | 1138.5  |
| 17.5° | 11157.8 | 9847.2  | 6972.5  | 4278.9  | 2234.6  | 1274.3  | 1066.0  | 1038.7  | 1038.7  | 1050.8  | 1050.8  |
| 20°   | 10798.4 | 9288.5  | 6006.2  | 3071.1  | 1407.1  | 1011.6  | 963.3   | 957.2   | 963.3   | 978.4   | 978.4   |
| 22.5° | 10490.4 | 8781.2  | 5103.3  | 2107.7  | 1044.8  | 912.0   | 887.8   | 878.8   | 881.7   | 890.8   | 896.8   |
| 25°   | 10261.0 | 8352.6  | 4251.8  | 1428.3  | 899.9   | 830.4   | 803.3   | 788.2   | 776.1   | 776.1   | 782.1   |
| 27.5° | 10116.0 | 7990.1  | 3427.4  | 1038.7  | 809.3   | 754.9   | 712.7   | 688.5   | 661.3   | 646.3   | 652.3   |
| 30°   | 10010.4 | 7645.9  | 2654.4  | 848.5   | 724.7   | 670.5   | 616.0   | 576.8   | 537.5   | 519.4   | 525.4   |
| 32.5° | 9971.1  | 7368.1  | 1983.9  | 748.9   | 649.2   | 588.8   | 522.4   | 471.1   | 428.9   | 413.6   | 416.8   |
| 35°   | 10076.8 | 7147.6  | 1452.5  | 676.5   | 588.8   | 513.3   | 437.9   | 380.4   | 347.2   | 338.1   | 341.2   |
| 37.5° | 10354.6 | 7029.8  | 1087.1  | 616.0   | 534.5   | 449.9   | 365.4   | 311.1   | 289.9   | 289.9   | 293.0   |
| 40°   | 10880.0 | 7026.9  | 872.7   | 573.7   | 486.2   | 389.5   | 302.0   | 262.8   | 250.6   | 256.6   | 259.7   |
| 42.5° | 11647.0 | 7186.8  | 761.0   | 534.5   | 443.9   | 332.1   | 250.6   | 223.4   | 220.4   | 226.5   | 229.5   |
| 45°   | 12694.9 | 7479.8  | 700.6   | 501.3   | 398.6   | 277.8   | 211.4   | 193.3   | 193.3   | 202.3   | 205.3   |
| 47.5° | 13978.2 | 7908.6  | 649.2   | 468.0   | 353.4   | 232.5   | 181.2   | 169.2   | 172.1   | 181.2   | 184.2   |
| 50°   | 15524.3 | 8449.1  | 597.8   | 431.8   | 320.1   | 193.3   | 157.0   | 147.9   | 151.0   | 163.1   | 166.1   |
| 52.5° | 17284.9 | 9176.9  | 555.6   | 398.6   | 277.8   | 160.1   | 132.9   | 126.8   | 132.9   | 145.0   | 147.9   |
| 55°   | 18794.7 | 9829.2  | 504.3   | 371.4   | 223.4   | 132.9   | 108.7   | 108.7   | 114.7   | 129.8   | 132.9   |
| 57.5° | 20247.1 | 10511.7 | 459.0   | 320.1   | 175.2   | 105.7   | 90.5    | 93.6    | 102.7   | 117.8   | 120.8   |
| 60°   | 22379.0 | 11668.2 | 404.6   | 268.8   | 132.9   | 84.5    | 75.5    | 78.5    | 90.5    | 105.7   | 108.7   |
| 62.5° | 25999.7 | 13428.6 | 350.2   | 223.4   | 102.7   | 66.4    | 60.4    | 66.4    | 81.5    | 99.7    | 102.7   |
| 65°   | 29267.0 | 14144.2 | 287.0   | 187.3   | 78.5    | 51.4    | 51.4    | 60.4    | 78.5    | 96.5    | 99.7    |
| 67.5° | 27446.0 | 11906.6 | 223.4   | 147.9   | 60.4    | 39.3    | 42.3    | 57.4    | 75.5    | 96.5    | 99.7    |
| 69°   | 24272.4 | 9735.5  | 190.2   | 117.8   | 51.4    | 36.3    | 39.3    | 57.4    | 75.5    | 93.6    | 96.5    |
| 70°   | 21799.2 | 8219.6  | 169.2   | 99.7    | 45.4    | 36.3    | 39.3    | 54.3    | 75.5    | 93.6    | 96.5    |
| 72.5° | 14600.2 | 4438.9  | 135.9   | 72.4    | 42.3    | 33.3    | 33.3    | 54.3    | 72.4    | 90.5    | 93.6    |
| 75°   | 6275.0  | 1226.0  | 108.7   | 51.4    | 36.3    | 30.1    | 30.1    | 51.4    | 69.5    | 87.6    | 93.6    |
| 77.5° | 1147.4  | 311.1   | 87.6    | 45.4    | 36.3    | 30.1    | 27.2    | 48.3    | 66.4    | 84.5    | 87.6    |
| 80°   | 455.9   | 154.0   | 69.5    | 39.3    | 33.3    | 27.2    | 24.1    | 45.4    | 63.4    | 81.5    | 84.5    |
| 82.5° | 274.8   | 87.6    | 57.4    | 36.3    | 33.3    | 24.1    | 21.1    | 39.3    | 60.4    | 78.5    | 81.5    |
| 85°   | 223.4   | 60.4    | 45.4    | 36.3    | 30.1    | 24.1    | 18.1    | 36.3    | 54.3    | 75.5    | 78.5    |
| 87.5° | 108.7   | 42.3    | 42.3    | 33.3    | 30.1    | 24.1    | 18.1    | 33.3    | 51.4    | 72.4    | 75.5    |
| 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)