

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: P533849

Luminaire Tested: **GLAN-SA9B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30167 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 364  
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

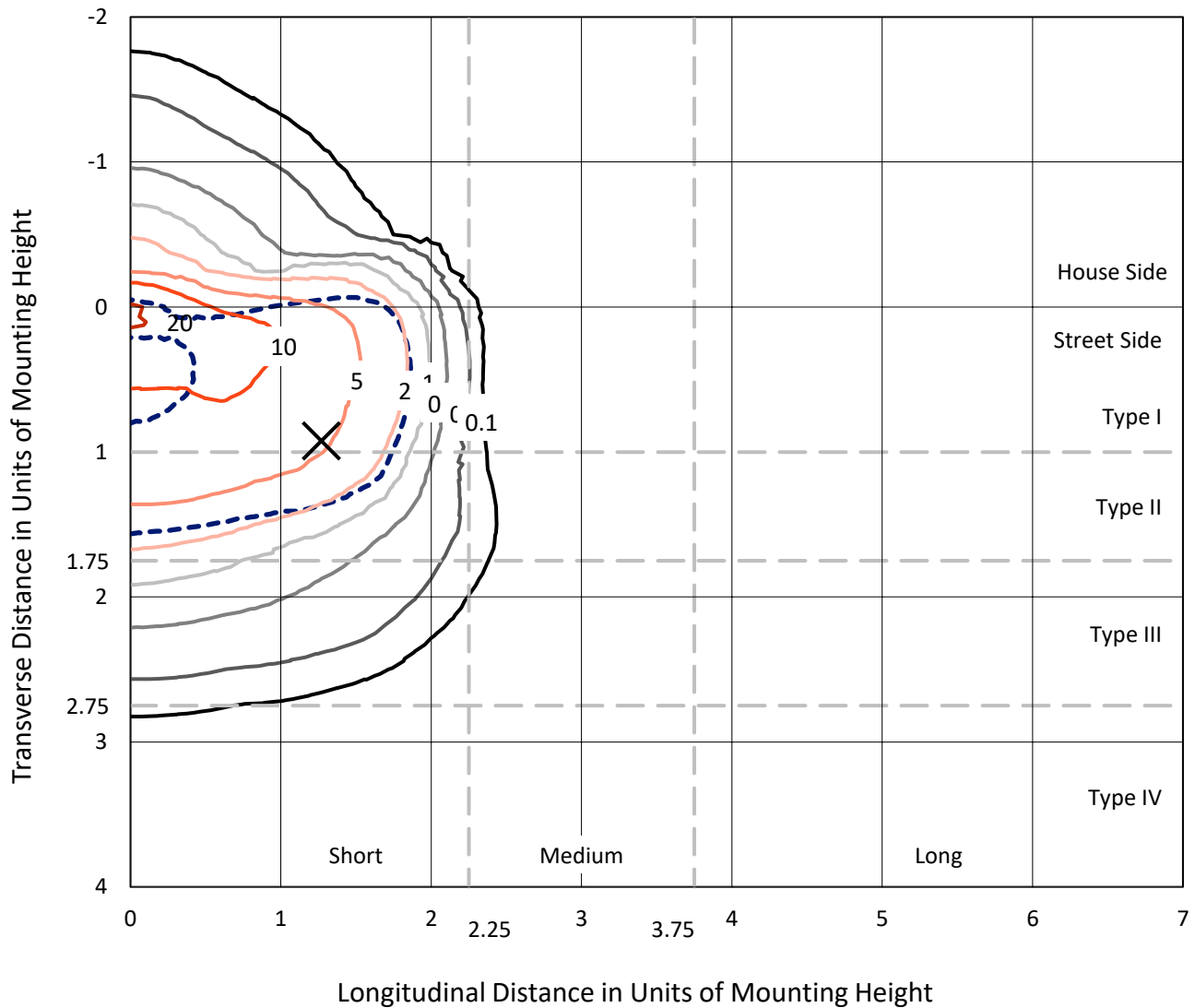


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

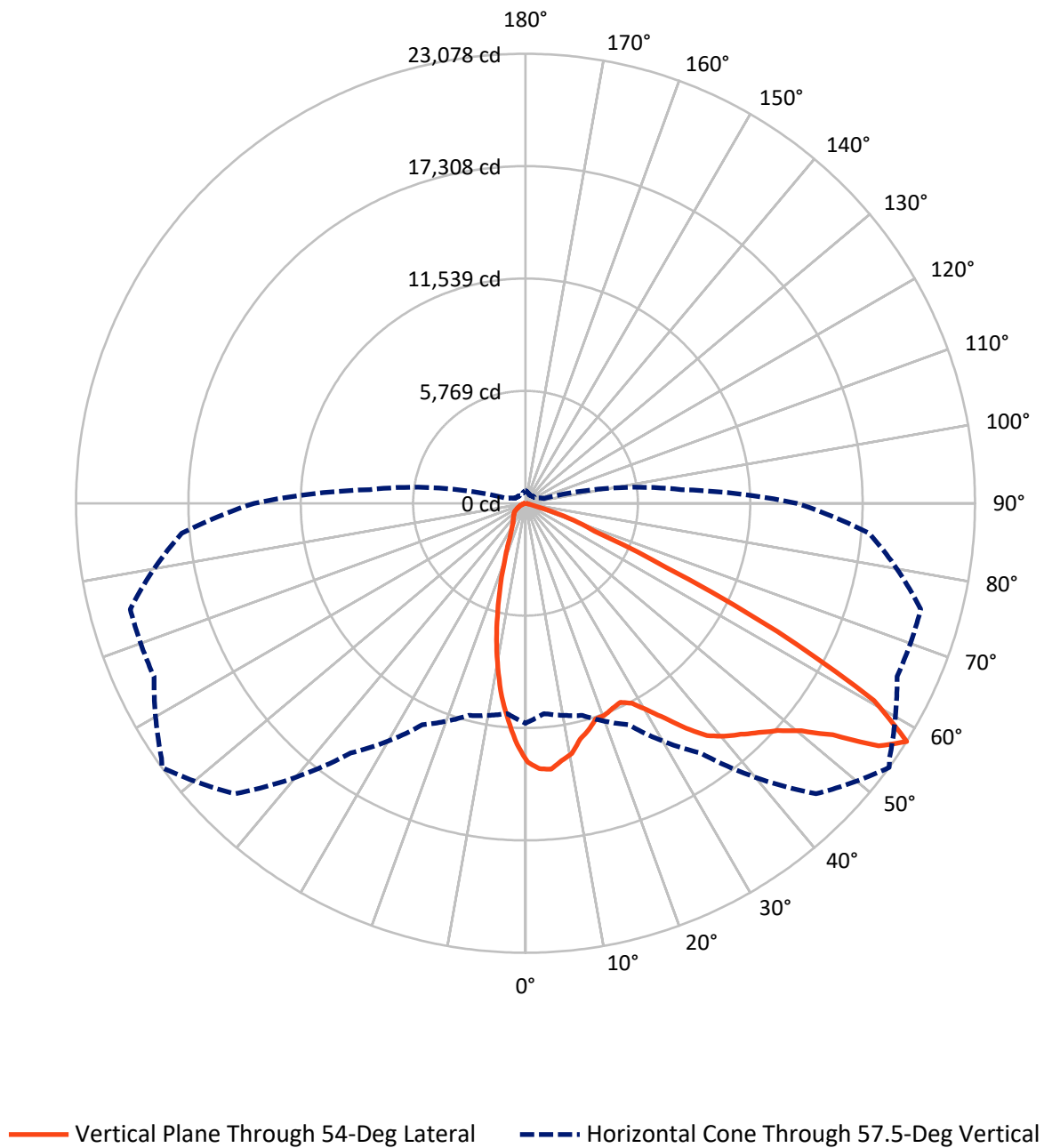


Based on 25 foot mounting height. Maximum calculated value = 21.3 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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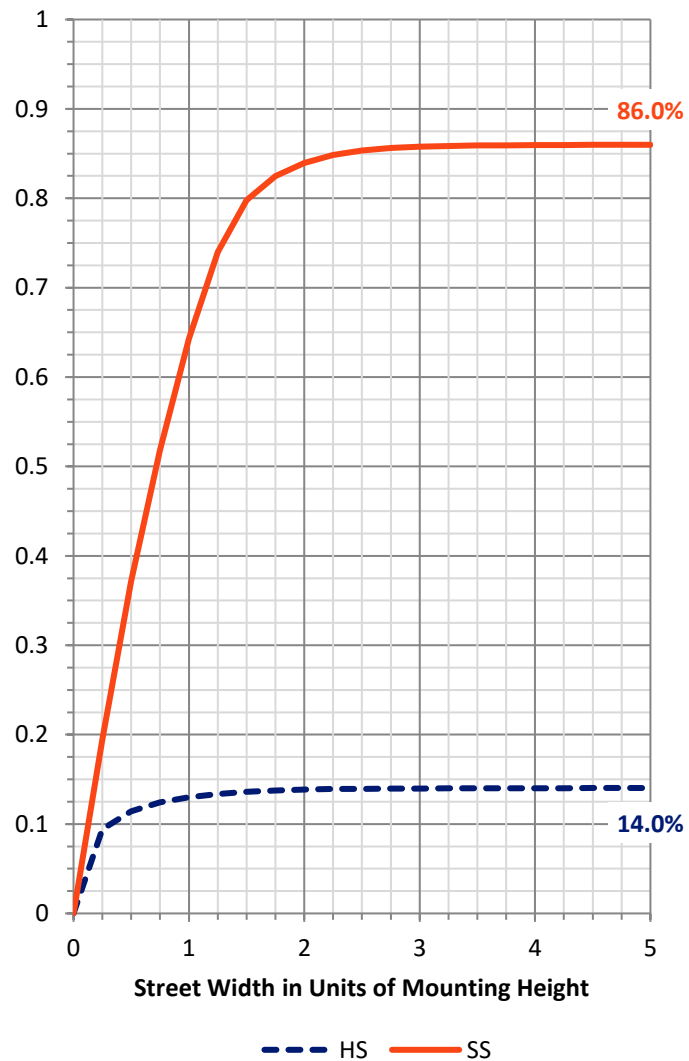
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4263.1   | 0.0    | 4263.1  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 25903.9  | 0.0    | 25903.9 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 30167.0  | 0.0    | 30167.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1112.1  | 3.7       |
| 10°-20°   | 2374.2  | 7.9       |
| 20°-30°   | 3146.3  | 10.4      |
| 30°-40°   | 4572.4  | 15.2      |
| 40°-50°   | 6780.3  | 22.5      |
| 50°-60°   | 8478.5  | 28.1      |
| 60°-70°   | 3344.4  | 11.1      |
| 70°-80°   | 333.0   | 1.1       |
| 80°-90°   | 25.9    | 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°    | 30167.0 | 100.0     |
| 0°-180°   | 30167.0 | 100.0     |

**Coefficient of Utilization**



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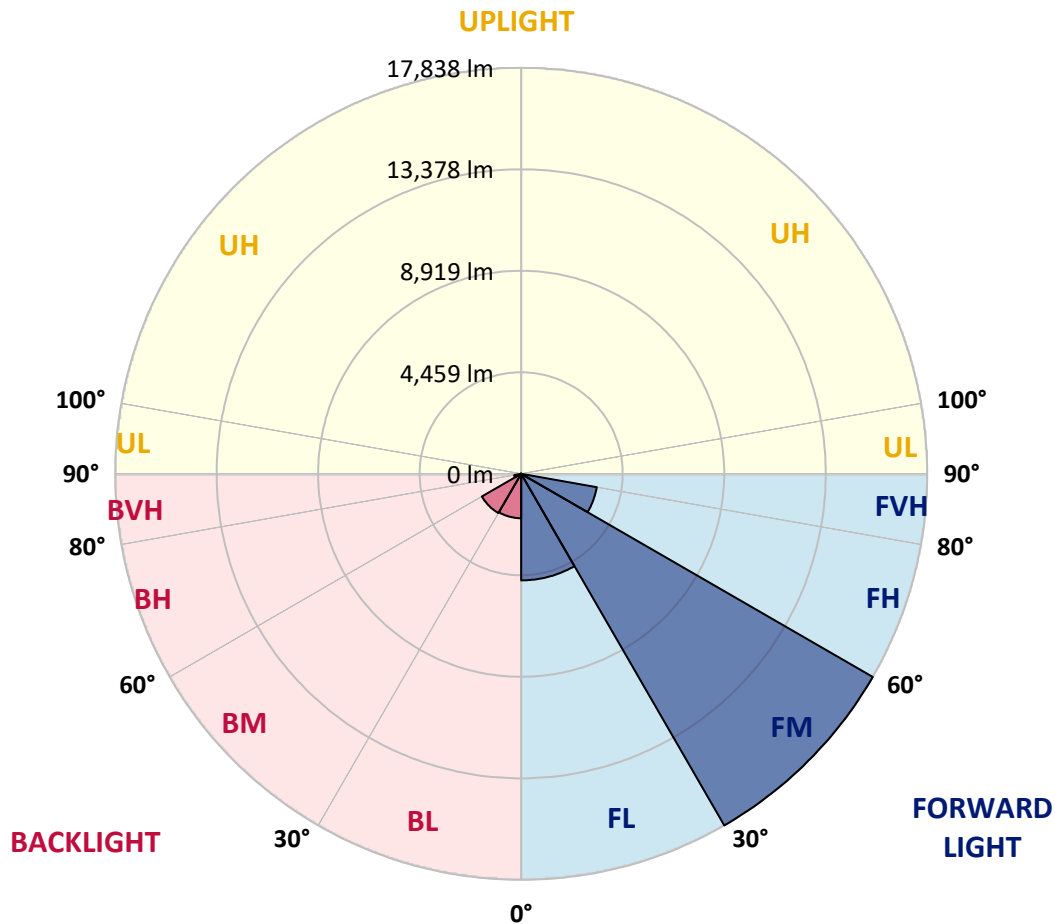
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4682.8  | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 17837.7 | 59.1      |                         |      |         |
| FH   | (60°-80°)   | 3371.7  | 11.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 11.8    | 0.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1949.7  | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1993.5  | 6.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 305.7   | 1.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 14.1    | 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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 |
| 2.5°  | 14063.1 | 13917.2 | 13928.5 | 13878.0 | 13810.7 | 13861.1 | 13642.4 | 13692.9 | 13687.2 | 13389.9 | 13193.6 |
| 5°    | 13709.7 | 13866.8 | 13704.1 | 13838.7 | 13709.7 | 13849.9 | 13715.3 | 13614.3 | 13451.6 | 13232.9 | 12868.3 |
| 7.5°  | 13109.5 | 12958.0 | 13002.9 | 13171.2 | 13199.2 | 13513.4 | 13345.1 | 13474.1 | 13406.8 | 12974.8 | 12475.6 |
| 10°   | 11903.4 | 11869.8 | 12094.1 | 12318.5 | 12593.4 | 12930.0 | 13059.0 | 12986.1 | 12935.6 | 12772.9 | 12105.4 |
| 12.5° | 10977.8 | 11073.2 | 11067.6 | 11437.8 | 11903.4 | 12094.1 | 12430.7 | 12419.5 | 12700.0 | 12397.1 | 11757.6 |
| 15°   | 10097.1 | 10147.6 | 10383.2 | 10613.2 | 11129.3 | 11673.4 | 12088.5 | 12144.6 | 12481.2 | 12268.0 | 11488.3 |
| 17.5° | 9558.6  | 9485.7  | 9670.8  | 9945.7  | 10473.0 | 11185.4 | 11645.4 | 11780.0 | 12240.0 | 12195.1 | 11179.8 |
| 20°   | 9025.7  | 9025.7  | 9177.2  | 9502.5  | 9985.0  | 10787.1 | 11606.1 | 11566.8 | 12240.0 | 12111.0 | 10848.8 |
| 22.5° | 8846.2  | 8936.0  | 8975.2  | 9222.1  | 9794.2  | 10484.2 | 11437.8 | 11510.7 | 12335.4 | 12071.7 | 10703.0 |
| 25°   | 9093.0  | 8975.2  | 8986.5  | 9182.8  | 9721.3  | 10338.4 | 11314.4 | 11477.1 | 12509.2 | 12268.0 | 10585.2 |
| 27.5° | 9132.3  | 9250.1  | 9283.8  | 9418.4  | 9777.4  | 10383.2 | 11622.9 | 11953.9 | 12941.2 | 12728.0 | 10618.8 |
| 30°   | 9474.5  | 9592.3  | 9586.7  | 9816.7  | 10063.5 | 10747.9 | 12312.9 | 12380.2 | 13833.1 | 13305.8 | 10826.4 |
| 32.5° | 9889.6  | 10013.0 | 10052.3 | 10321.5 | 10517.9 | 11415.4 | 13154.3 | 13328.2 | 14691.4 | 14214.5 | 11370.5 |
| 35°   | 10405.7 | 10360.8 | 10540.3 | 10809.6 | 11230.3 | 12391.4 | 14180.9 | 14472.6 | 15616.9 | 15392.5 | 11931.5 |
| 37.5° | 11050.8 | 10994.7 | 11168.6 | 11606.1 | 12178.3 | 13547.0 | 15128.9 | 15319.6 | 16290.1 | 16486.4 | 12969.2 |
| 40°   | 11505.1 | 11527.6 | 12054.9 | 12643.9 | 13249.7 | 14646.5 | 15729.1 | 15914.2 | 16761.3 | 17507.3 | 13754.6 |
| 42.5° | 12262.4 | 12402.7 | 13036.5 | 13754.6 | 14388.4 | 15471.1 | 16217.1 | 16396.6 | 16980.0 | 18326.3 | 14814.8 |
| 45°   | 13361.9 | 13300.2 | 14001.4 | 14803.5 | 15504.7 | 16329.3 | 16794.9 | 16733.2 | 17109.1 | 19139.7 | 15482.3 |
| 47.5° | 14775.5 | 14786.7 | 15252.3 | 15936.7 | 16665.9 | 17075.4 | 17440.0 | 17221.2 | 17378.3 | 19998.0 | 16374.2 |
| 50°   | 15740.3 | 15824.5 | 16200.3 | 16901.5 | 17266.1 | 17894.4 | 18360.0 | 18225.4 | 18174.9 | 20514.0 | 16935.2 |
| 52.5° | 15987.2 | 16239.6 | 16441.5 | 17316.6 | 18169.3 | 19162.1 | 19756.8 | 20042.8 | 19145.3 | 20687.9 | 17647.6 |
| 55°   | 14124.8 | 14349.2 | 15061.6 | 16262.0 | 18511.4 | 21170.4 | 21989.3 | 21995.0 | 20413.1 | 21462.1 | 18146.8 |
| 57.5° | 11292.0 | 10837.6 | 11275.1 | 12548.5 | 15650.6 | 21086.2 | 23077.6 | 22813.9 | 21046.9 | 21007.7 | 17714.9 |
| 60°   | 7808.5  | 7696.3  | 7724.3  | 8229.2  | 10832.0 | 16772.5 | 20564.5 | 20906.7 | 19380.9 | 18208.5 | 14023.8 |
| 62.5° | 6187.3  | 6091.9  | 5968.5  | 5912.4  | 6725.8  | 10450.5 | 14506.2 | 14988.7 | 13552.6 | 11808.1 | 8313.3  |
| 65°   | 4846.6  | 4790.5  | 4807.4  | 5031.7  | 5026.1  | 5929.3  | 7931.9  | 7735.5  | 6192.9  | 4577.4  | 2614.0  |
| 67.5° | 3270.4  | 3354.5  | 3421.8  | 4100.6  | 4448.4  | 4128.6  | 3831.3  | 3719.1  | 2013.8  | 847.0   | 577.8   |
| 70°   | 1839.9  | 1851.1  | 1924.1  | 2563.6  | 3376.9  | 3203.0  | 2642.1  | 2642.1  | 1004.1  | 308.5   | 331.0   |
| 72.5° | 1004.1  | 970.4   | 903.1   | 1105.1  | 1503.4  | 1525.8  | 1178.0  | 1026.5  | 297.3   | 201.9   | 185.1   |
| 75°   | 488.0   | 482.4   | 415.1   | 342.2   | 325.4   | 269.3   | 207.6   | 190.7   | 134.6   | 129.0   | 112.2   |
| 77.5° | 101.0   | 95.4    | 50.5    | 50.5    | 56.1    | 61.7    | 78.5    | 78.5    | 95.4    | 95.4    | 78.5    |
| 80°   | 0.0     | 0.0     | 5.6     | 22.4    | 39.3    | 56.1    | 67.3    | 67.3    | 78.5    | 78.5    | 61.7    |
| 82.5° | 0.0     | 0.0     | 5.6     | 16.8    | 33.7    | 50.5    | 61.7    | 67.3    | 78.5    | 84.1    | 67.3    |
| 85°   | 0.0     | 0.0     | 0.0     | 11.2    | 28.0    | 39.3    | 33.7    | 33.7    | 28.0    | 22.4    | 11.2    |
| 87.5° | 0.0     | 0.0     | 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     |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 | 13289.0 |
| 2.5°  | 13092.6 | 13081.4 | 12823.4 | 12677.5 | 12413.9 | 12183.9 | 11998.8 | 11864.1 | 11864.1 | 11780.0 | 11701.5 |
| 5°    | 12722.4 | 12627.0 | 12077.3 | 11723.9 | 11224.7 | 10854.4 | 10602.0 | 10405.7 | 10097.1 | 10181.3 | 9850.3  |
| 7.5°  | 12262.4 | 12021.2 | 11292.0 | 10753.5 | 10063.5 | 9536.2  | 8997.7  | 8520.9  | 8060.9  | 7853.3  | 7965.5  |
| 10°   | 11768.8 | 11348.1 | 10366.4 | 9513.8  | 8655.5  | 7690.7  | 7062.4  | 6299.5  | 5828.3  | 5800.3  | 5676.8  |
| 12.5° | 11247.1 | 10770.3 | 9575.5  | 8397.5  | 7269.9  | 6108.8  | 5149.5  | 4437.1  | 4117.4  | 3764.0  | 3831.3  |
| 15°   | 10854.4 | 10147.6 | 8694.8  | 7275.6  | 5777.8  | 4605.4  | 3640.6  | 3090.8  | 2787.9  | 2703.8  | 2675.7  |
| 17.5° | 10428.1 | 9670.8  | 7797.2  | 6080.7  | 4532.5  | 3315.2  | 2619.6  | 2356.0  | 2238.2  | 2238.2  | 2221.4  |
| 20°   | 9985.0  | 9132.3  | 6905.3  | 4970.0  | 3399.4  | 2473.8  | 2098.0  | 2013.8  | 2008.2  | 2002.6  | 2002.6  |
| 22.5° | 9693.3  | 8515.3  | 6097.6  | 3949.1  | 2563.6  | 1980.2  | 1823.1  | 1789.4  | 1811.9  | 1879.2  | 1879.2  |
| 25°   | 9384.7  | 7920.7  | 5205.6  | 3046.0  | 1985.8  | 1699.7  | 1609.9  | 1632.4  | 1688.5  | 1750.2  | 1727.7  |
| 27.5° | 9070.6  | 7533.6  | 4364.2  | 2389.7  | 1626.8  | 1486.5  | 1452.9  | 1503.4  | 1565.1  | 1621.2  | 1604.3  |
| 30°   | 8997.7  | 7118.5  | 3567.7  | 1811.9  | 1396.8  | 1295.8  | 1318.2  | 1363.1  | 1424.8  | 1447.3  | 1469.7  |
| 32.5° | 9109.9  | 6793.1  | 2922.6  | 1486.5  | 1217.3  | 1189.2  | 1189.2  | 1211.7  | 1250.9  | 1301.4  | 1284.6  |
| 35°   | 9429.6  | 6608.0  | 2311.1  | 1290.2  | 1116.3  | 1088.2  | 1082.6  | 1105.1  | 1127.5  | 1144.3  | 1127.5  |
| 37.5° | 9917.6  | 6462.2  | 1890.4  | 1144.3  | 1049.0  | 1004.1  | 992.9   | 987.3   | 1009.7  | 1015.3  | 1026.5  |
| 40°   | 10540.3 | 6540.7  | 1604.3  | 1054.6  | 981.7   | 931.2   | 897.5   | 897.5   | 897.5   | 914.4   | 920.0   |
| 42.5° | 11213.4 | 6647.3  | 1385.6  | 1004.1  | 920.0   | 858.3   | 824.6   | 813.4   | 824.6   | 847.0   | 841.4   |
| 45°   | 11920.2 | 6854.8  | 1245.3  | 925.6   | 863.9   | 785.3   | 740.5   | 729.2   | 757.3   | 802.2   | 796.6   |
| 47.5° | 12582.2 | 7152.1  | 1138.7  | 875.1   | 807.8   | 734.8   | 678.8   | 667.5   | 718.0   | 779.7   | 785.3   |
| 50°   | 13244.1 | 7668.2  | 1099.5  | 835.8   | 768.5   | 684.4   | 633.9   | 622.7   | 678.8   | 757.3   | 774.1   |
| 52.5° | 14007.0 | 8223.6  | 1071.4  | 785.3   | 723.6   | 645.1   | 589.0   | 577.8   | 639.5   | 740.5   | 746.1   |
| 55°   | 14506.2 | 8694.8  | 1049.0  | 695.6   | 639.5   | 583.4   | 538.5   | 532.9   | 600.2   | 690.0   | 712.4   |
| 57.5° | 13922.8 | 8038.5  | 970.4   | 605.8   | 544.1   | 516.1   | 476.8   | 476.8   | 532.9   | 617.0   | 633.9   |
| 60°   | 10557.1 | 5289.8  | 690.0   | 488.0   | 460.0   | 443.2   | 426.3   | 426.3   | 471.2   | 532.9   | 538.5   |
| 62.5° | 6181.7  | 2849.6  | 443.2   | 392.7   | 392.7   | 375.8   | 347.8   | 347.8   | 392.7   | 426.3   | 431.9   |
| 65°   | 1834.3  | 914.4   | 359.0   | 336.6   | 331.0   | 302.9   | 274.9   | 269.3   | 302.9   | 319.7   | 314.1   |
| 67.5° | 527.3   | 420.7   | 297.3   | 280.5   | 274.9   | 230.0   | 213.2   | 207.6   | 213.2   | 201.9   | 196.3   |
| 70°   | 314.1   | 286.1   | 230.0   | 235.6   | 207.6   | 168.3   | 151.5   | 145.8   | 134.6   | 117.8   | 106.6   |
| 72.5° | 173.9   | 173.9   | 168.3   | 179.5   | 145.8   | 112.2   | 95.4    | 78.5    | 61.7    | 50.5    | 44.9    |
| 75°   | 106.6   | 112.2   | 117.8   | 123.4   | 95.4    | 72.9    | 61.7    | 39.3    | 22.4    | 11.2    | 11.2    |
| 77.5° | 72.9    | 78.5    | 84.1    | 89.8    | 78.5    | 67.3    | 50.5    | 28.0    | 5.6     | 0.0     | 0.0     |
| 80°   | 56.1    | 61.7    | 72.9    | 78.5    | 84.1    | 89.8    | 67.3    | 28.0    | 5.6     | 0.0     | 0.0     |
| 82.5° | 61.7    | 67.3    | 84.1    | 78.5    | 78.5    | 78.5    | 61.7    | 28.0    | 5.6     | 0.0     | 0.0     |
| 85°   | 11.2    | 16.8    | 28.0    | 28.0    | 39.3    | 50.5    | 39.3    | 11.2    | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 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)