

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: P321182

Luminaire Tested: **GAN-SA8D-722-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-722-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46898 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

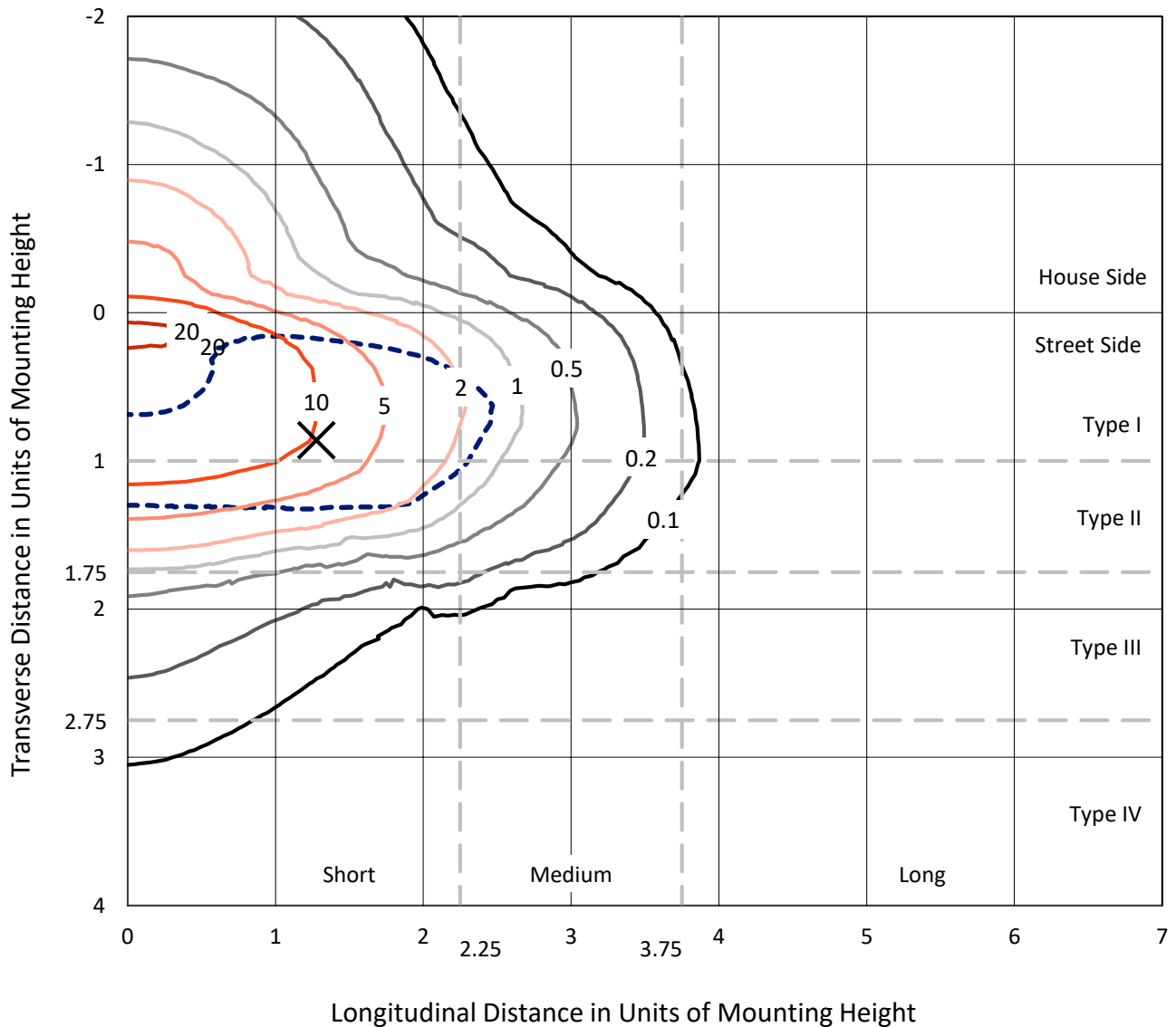
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

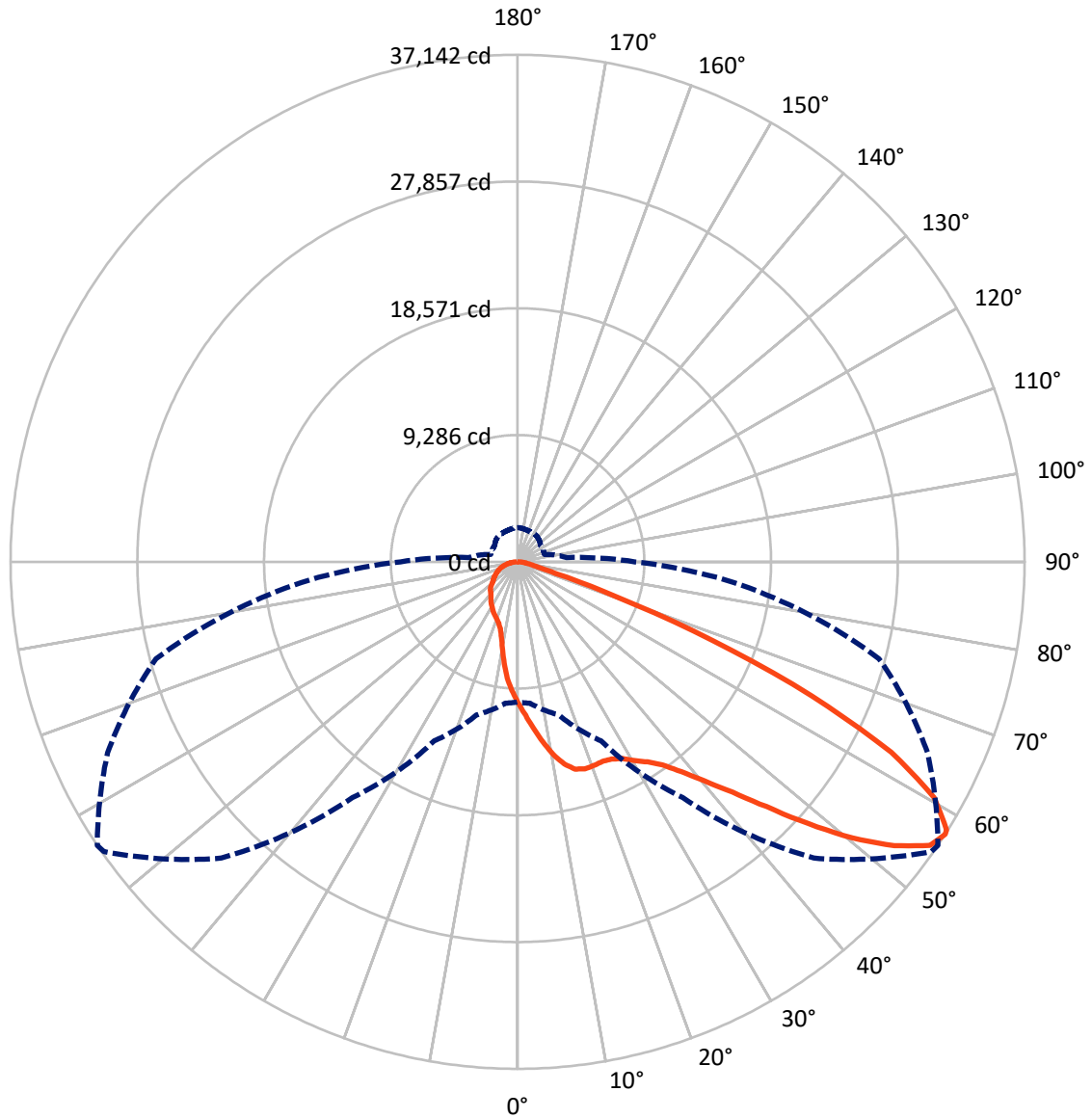
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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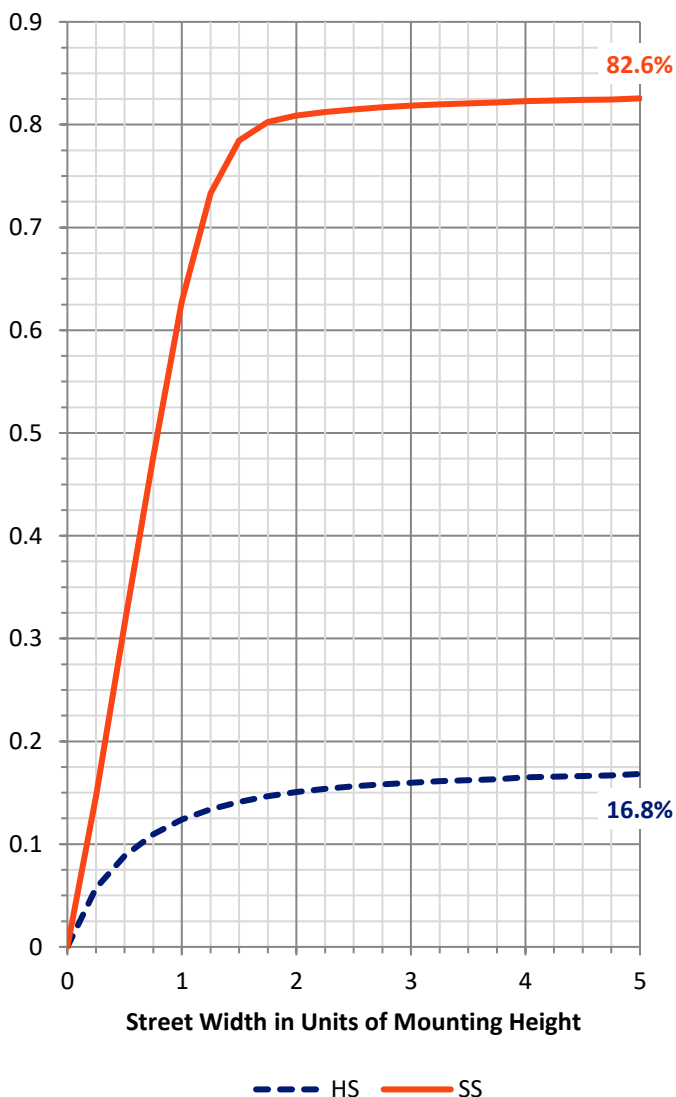
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8084.2   | 0.0    | 8084.2  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 38813.8  | 0.0    | 38813.8 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 46898.0  | 0.0    | 46898.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 993.7   | 2.1       |
| 10°-20°   | 2809.3  | 6.0       |
| 20°-30°   | 4575.8  | 9.8       |
| 30°-40°   | 6840.3  | 14.6      |
| 40°-50°   | 10375.3 | 22.1      |
| 50°-60°   | 11628.9 | 24.8      |
| 60°-70°   | 6868.5  | 14.6      |
| 70°-80°   | 2250.4  | 4.8       |
| 80°-90°   | 556.0   | 1.2       |
| 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°    | 46898.0 | 100.0     |
| 0°-180°   | 46898.0 | 100.0     |

**Coefficient of Utilization**

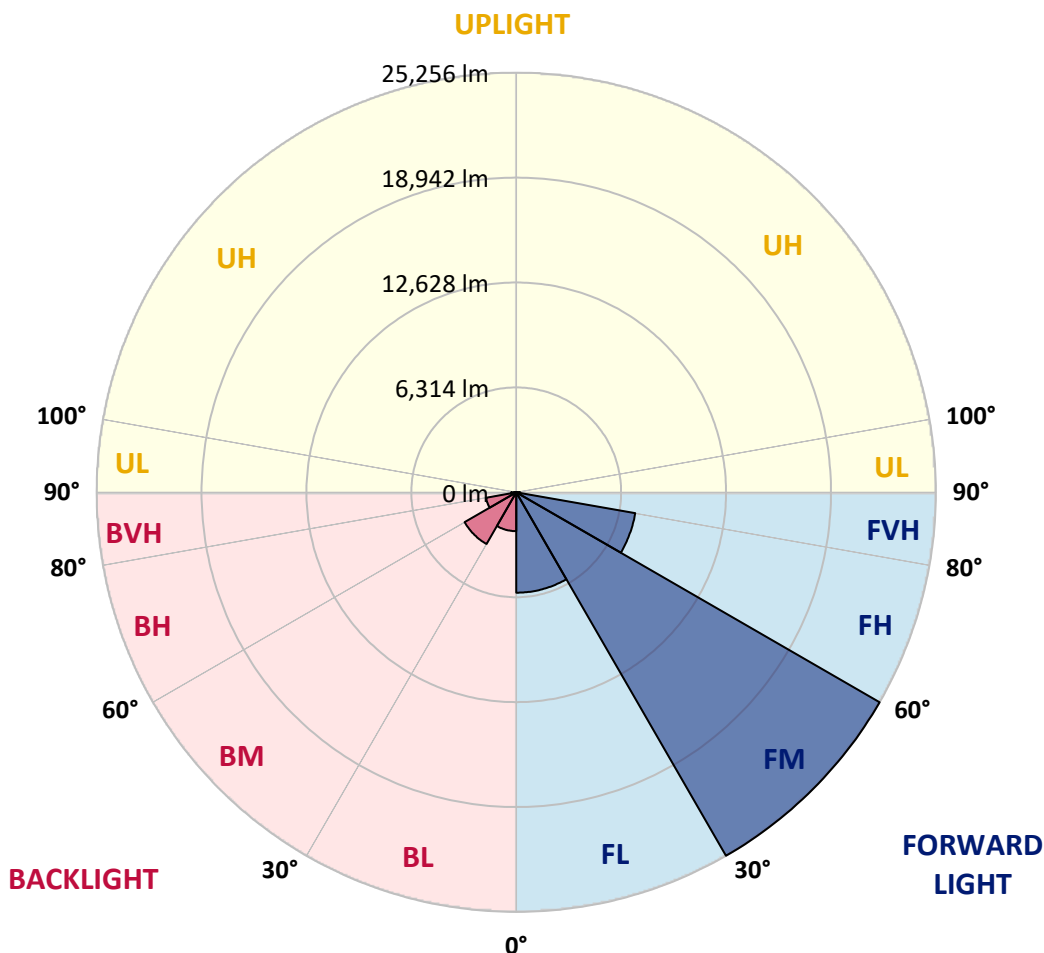


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6041.2  | 12.9      |                         |      |         |
| FM (30°-60°)   | 25256.1 | 53.9      |                         |      |         |
| FH (60°-80°)   | 7271.7  | 15.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 244.8   | 0.5       |                         |      | G3/500  |
| BL (0°-30°)    | 2337.6  | 5.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 3588.3  | 7.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 1847.2  | 3.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 311.2   | 0.7       |                         |      | G3/500  |
| 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°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 |
| 2.5°  | 11944.4 | 12054.0 | 12005.7 | 11838.1 | 11709.1 | 11527.0 | 11323.9 | 11262.7 | 11048.3 | 10808.2 | 10519.7 |
| 5°    | 13835.0 | 13780.2 | 13701.2 | 13440.1 | 13164.5 | 12843.8 | 12334.5 | 12253.9 | 11776.8 | 11233.7 | 10659.9 |
| 7.5°  | 14911.6 | 14906.8 | 14860.0 | 14706.9 | 14455.5 | 14036.4 | 13422.4 | 13327.3 | 12606.8 | 11733.3 | 10843.6 |
| 10°   | 14755.3 | 14744.0 | 14821.3 | 14980.9 | 15056.7 | 14969.6 | 14452.3 | 14357.2 | 13472.3 | 12286.1 | 11056.4 |
| 12.5° | 13867.2 | 13873.7 | 13997.8 | 14333.0 | 14789.1 | 15337.1 | 15253.3 | 15206.5 | 14370.1 | 12911.5 | 11314.3 |
| 15°   | 13175.8 | 13190.3 | 13288.6 | 13580.3 | 14118.6 | 15113.1 | 15740.0 | 15756.1 | 15238.8 | 13601.3 | 11615.6 |
| 17.5° | 12872.8 | 12903.4 | 12948.5 | 13153.2 | 13646.4 | 14666.6 | 15856.1 | 15943.1 | 15999.5 | 14316.9 | 11905.8 |
| 20°   | 12969.5 | 12998.5 | 13011.4 | 13141.9 | 13546.5 | 14395.9 | 15775.5 | 15931.8 | 16583.0 | 14990.6 | 12195.9 |
| 22.5° | 13403.0 | 13420.8 | 13428.8 | 13462.7 | 13777.0 | 14473.2 | 15722.3 | 15886.7 | 17005.2 | 15595.0 | 12415.1 |
| 25°   | 14121.9 | 14109.0 | 14057.4 | 14013.9 | 14225.0 | 14779.4 | 15844.8 | 16001.1 | 17348.5 | 16143.0 | 12558.5 |
| 27.5° | 14982.5 | 14966.4 | 14866.5 | 14747.2 | 14868.1 | 15256.5 | 16197.8 | 16321.9 | 17656.4 | 16655.5 | 12631.0 |
| 30°   | 16015.6 | 15973.7 | 15785.2 | 15643.3 | 15690.1 | 15972.1 | 16779.6 | 16892.4 | 18131.8 | 17237.3 | 12701.9 |
| 32.5° | 17209.9 | 17164.8 | 16892.4 | 16657.1 | 16657.1 | 16892.4 | 17379.1 | 17472.6 | 18534.7 | 17894.9 | 12816.4 |
| 35°   | 18705.6 | 18649.2 | 18294.6 | 17899.7 | 17788.5 | 17907.8 | 18196.3 | 18262.4 | 19260.0 | 18723.3 | 13024.3 |
| 37.5° | 20468.8 | 20393.1 | 19933.7 | 19405.1 | 19161.7 | 19155.3 | 19363.2 | 19498.5 | 20418.8 | 19811.2 | 13377.2 |
| 40°   | 22236.9 | 22183.7 | 21782.4 | 21366.5 | 20889.5 | 20736.3 | 21057.1 | 21099.0 | 21933.9 | 21161.8 | 13828.5 |
| 42.5° | 23603.6 | 23593.9 | 23519.8 | 23574.6 | 23086.2 | 22776.8 | 23028.2 | 23062.1 | 23784.1 | 22623.7 | 14308.8 |
| 45°   | 24325.6 | 24341.8 | 24701.2 | 25497.4 | 25677.9 | 25452.2 | 25576.3 | 25586.0 | 25898.7 | 24098.4 | 14748.8 |
| 47.5° | 23747.0 | 23830.8 | 24739.9 | 26520.8 | 27998.7 | 28748.2 | 28541.9 | 28661.2 | 27948.8 | 25365.2 | 15093.7 |
| 50°   | 21492.2 | 21595.4 | 23142.6 | 26064.7 | 29081.8 | 31937.8 | 31829.8 | 31802.4 | 29602.4 | 26293.5 | 15280.7 |
| 52.5° | 18699.1 | 18779.7 | 20056.2 | 23693.8 | 28287.2 | 33701.0 | 34692.2 | 34550.4 | 31072.3 | 26988.2 | 15316.1 |
| 55°   | 14445.8 | 14571.5 | 15794.8 | 18961.8 | 25073.5 | 33027.3 | 36797.1 | 36669.8 | 32411.6 | 27352.4 | 15274.2 |
| 57°   | 10269.9 | 10402.0 | 11617.3 | 14471.6 | 21092.5 | 30695.1 | 37006.6 | 37142.0 | 33135.3 | 27413.7 | 15321.0 |
| 57.5° | 9164.2  | 9299.6  | 10503.6 | 13275.7 | 19851.5 | 29852.2 | 36826.1 | 37051.8 | 33265.8 | 27404.0 | 15346.8 |
| 60°   | 4614.3  | 4665.9  | 5433.1  | 7410.7  | 12548.8 | 24133.8 | 34471.4 | 35053.2 | 33383.5 | 26930.2 | 15458.0 |
| 62.5° | 2868.9  | 2831.8  | 2807.6  | 3413.6  | 6105.2  | 16004.3 | 29612.1 | 30732.2 | 31131.9 | 25782.6 | 15188.8 |
| 65°   | 2522.3  | 2453.0  | 2187.1  | 2138.7  | 2696.4  | 7773.3  | 22299.7 | 23693.8 | 26320.9 | 23974.3 | 14547.4 |
| 67.5° | 2369.2  | 2301.5  | 2001.8  | 1821.2  | 1822.9  | 3081.6  | 13844.6 | 15414.5 | 20504.3 | 20916.9 | 13034.0 |
| 70°   | 2211.3  | 2150.0  | 1869.6  | 1656.8  | 1552.1  | 1706.8  | 6369.5  | 7560.6  | 13366.0 | 16441.1 | 10893.6 |
| 72.5° | 2008.2  | 1966.3  | 1700.4  | 1481.2  | 1370.0  | 1278.1  | 2438.5  | 2880.1  | 7737.9  | 11041.9 | 7565.4  |
| 75°   | 1795.5  | 1756.8  | 1529.5  | 1320.0  | 1184.6  | 1005.7  | 1373.2  | 1479.6  | 3931.0  | 5649.1  | 3724.7  |
| 77.5° | 1561.8  | 1539.2  | 1360.3  | 1166.9  | 1058.9  | 833.3   | 971.9   | 1023.4  | 1685.9  | 2422.4  | 1868.0  |
| 80°   | 1242.6  | 1286.1  | 1189.4  | 1039.6  | 939.6   | 667.3   | 688.2   | 722.0   | 981.5   | 1183.0  | 1060.5  |
| 82.5° | 809.1   | 884.8   | 931.6   | 844.5   | 773.6   | 525.4   | 494.8   | 509.3   | 639.9   | 722.0   | 461.0   |
| 85°   | 336.8   | 378.8   | 612.5   | 552.8   | 514.1   | 383.6   | 332.0   | 338.5   | 396.5   | 411.0   | 188.6   |
| 87.5° | 149.9   | 159.6   | 269.2   | 253.0   | 217.6   | 132.2   | 141.8   | 154.7   | 211.1   | 199.9   | 72.5    |
| 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°    | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 | 10402.0 |
| 2.5°  | 10411.7 | 10276.3 | 10044.2 | 9788.0  | 9578.4  | 9410.8  | 9241.6  | 9125.5  | 8990.2  | 8917.6  | 8880.6  |
| 5°    | 10419.7 | 10153.8 | 9665.5  | 9164.2  | 8716.2  | 8306.8  | 7916.8  | 7617.0  | 7336.5  | 7185.0  | 7143.1  |
| 7.5°  | 10453.6 | 10053.9 | 9264.1  | 8438.9  | 7642.8  | 6915.9  | 6355.0  | 6003.6  | 5750.6  | 5637.8  | 5605.6  |
| 10°   | 10481.0 | 9936.2  | 8767.7  | 7546.1  | 6463.0  | 5726.4  | 5291.3  | 5094.6  | 5007.6  | 4993.1  | 4978.6  |
| 12.5° | 10545.5 | 9815.4  | 8245.5  | 6614.5  | 5545.9  | 5036.6  | 4885.1  | 4872.2  | 4896.4  | 4931.9  | 4931.9  |
| 15°   | 10647.0 | 9696.1  | 7649.2  | 5815.1  | 4962.5  | 4783.6  | 4814.2  | 4885.1  | 4951.2  | 5006.0  | 5014.1  |
| 17.5° | 10721.1 | 9549.4  | 7007.7  | 5175.2  | 4651.4  | 4699.8  | 4809.4  | 4909.3  | 4977.0  | 5030.2  | 5035.0  |
| 20°   | 10774.3 | 9322.2  | 6322.8  | 4686.9  | 4472.5  | 4622.4  | 4759.4  | 4848.0  | 4894.8  | 4948.0  | 4956.0  |
| 22.5° | 10746.9 | 9017.6  | 5715.1  | 4337.1  | 4327.5  | 4509.6  | 4640.1  | 4746.5  | 4711.0  | 4659.5  | 4693.3  |
| 25°   | 10614.8 | 8598.5  | 5089.8  | 4076.0  | 4174.3  | 4358.1  | 4519.3  | 4448.3  | 4329.1  | 4306.5  | 4319.4  |
| 27.5° | 10379.5 | 8063.4  | 4511.2  | 3834.3  | 3997.1  | 4217.9  | 4208.2  | 4137.3  | 4095.4  | 4066.4  | 4084.1  |
| 30°   | 10126.4 | 7483.2  | 4005.1  | 3623.1  | 3800.4  | 3982.6  | 3945.5  | 3943.9  | 3902.0  | 3855.2  | 3877.8  |
| 32.5° | 9876.6  | 6899.8  | 3603.8  | 3449.1  | 3652.1  | 3676.3  | 3756.9  | 3781.1  | 3698.9  | 3600.6  | 3594.1  |
| 35°   | 9659.0  | 6348.6  | 3299.2  | 3291.1  | 3473.2  | 3476.5  | 3594.1  | 3560.3  | 3355.6  | 3254.1  | 3254.1  |
| 37.5° | 9496.2  | 5799.0  | 3067.1  | 3149.3  | 3237.9  | 3321.7  | 3381.4  | 3241.2  | 3207.3  | 3150.9  | 3149.3  |
| 40°   | 9425.3  | 5315.4  | 2922.0  | 3041.3  | 3071.9  | 3178.3  | 3025.2  | 3080.0  | 3096.1  | 3067.1  | 3067.1  |
| 42.5° | 9351.2  | 4894.8  | 2796.3  | 2959.1  | 2954.3  | 2939.8  | 2862.4  | 2933.3  | 2997.8  | 2999.4  | 2994.6  |
| 45°   | 9277.0  | 4532.1  | 2685.1  | 2783.4  | 2851.1  | 2694.8  | 2709.3  | 2785.0  | 2875.3  | 2907.5  | 2907.5  |
| 47.5° | 9194.8  | 4245.3  | 2583.6  | 2598.1  | 2702.8  | 2598.1  | 2586.8  | 2644.8  | 2751.2  | 2802.8  | 2814.1  |
| 50°   | 9014.3  | 3987.4  | 2467.5  | 2435.3  | 2464.3  | 2499.8  | 2509.4  | 2536.8  | 2654.5  | 2736.7  | 2756.0  |
| 52.5° | 8764.5  | 3756.9  | 2319.3  | 2285.4  | 2285.4  | 2419.2  | 2464.3  | 2472.4  | 2572.3  | 2670.6  | 2690.0  |
| 55°   | 8556.6  | 3610.2  | 2166.1  | 2159.7  | 2153.3  | 2333.8  | 2411.1  | 2424.0  | 2493.3  | 2570.7  | 2580.4  |
| 57°   | 8571.1  | 3599.0  | 2048.5  | 2054.9  | 2053.3  | 2246.7  | 2361.2  | 2388.6  | 2424.0  | 2490.1  | 2501.4  |
| 57.5° | 8579.2  | 3607.0  | 2022.7  | 2025.9  | 2024.3  | 2222.6  | 2346.7  | 2377.3  | 2404.7  | 2474.0  | 2485.3  |
| 60°   | 8700.0  | 3628.0  | 1917.9  | 1882.5  | 1890.5  | 2093.6  | 2264.5  | 2303.1  | 2320.9  | 2412.7  | 2427.2  |
| 62.5° | 8521.1  | 3534.5  | 1834.1  | 1748.7  | 1748.7  | 1958.2  | 2150.0  | 2211.3  | 2238.7  | 2362.8  | 2387.0  |
| 65°   | 8002.2  | 3271.8  | 1735.8  | 1597.2  | 1613.3  | 1822.9  | 2013.0  | 2113.0  | 2154.9  | 2309.6  | 2335.4  |
| 67.5° | 7201.1  | 2967.2  | 1631.1  | 1461.8  | 1477.9  | 1681.0  | 1871.2  | 1979.2  | 2045.3  | 2251.6  | 2272.5  |
| 70°   | 6158.4  | 2594.9  | 1489.2  | 1318.4  | 1337.7  | 1526.3  | 1703.6  | 1826.1  | 1924.4  | 2196.8  | 2203.2  |
| 72.5° | 4540.2  | 2127.5  | 1291.0  | 1160.4  | 1181.4  | 1345.8  | 1534.4  | 1676.2  | 1808.3  | 2059.8  | 2056.6  |
| 75°   | 2699.6  | 1663.3  | 1071.8  | 1000.9  | 1015.4  | 1168.5  | 1381.2  | 1553.7  | 1751.9  | 2006.6  | 2037.2  |
| 77.5° | 1637.5  | 1252.3  | 873.6   | 838.1   | 855.8   | 1012.2  | 1271.6  | 1455.4  | 1727.8  | 1892.2  | 1882.5  |
| 80°   | 989.6   | 894.5   | 697.9   | 675.3   | 693.0   | 865.5   | 1176.6  | 1381.2  | 1510.2  | 1616.6  | 1616.6  |
| 82.5° | 517.4   | 546.4   | 512.5   | 494.8   | 519.0   | 702.7   | 1070.2  | 1205.6  | 1334.5  | 1145.9  | 1070.2  |
| 85°   | 211.1   | 285.3   | 311.1   | 309.4   | 324.0   | 486.7   | 923.5   | 1031.5  | 860.7   | 817.1   | 836.5   |
| 87.5° | 70.9    | 120.9   | 151.5   | 130.5   | 137.0   | 306.2   | 639.9   | 498.0   | 591.5   | 412.6   | 391.6   |
| 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)