

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: P317912

Luminaire Tested: **GAN-SA8A-830-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-830-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30346 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

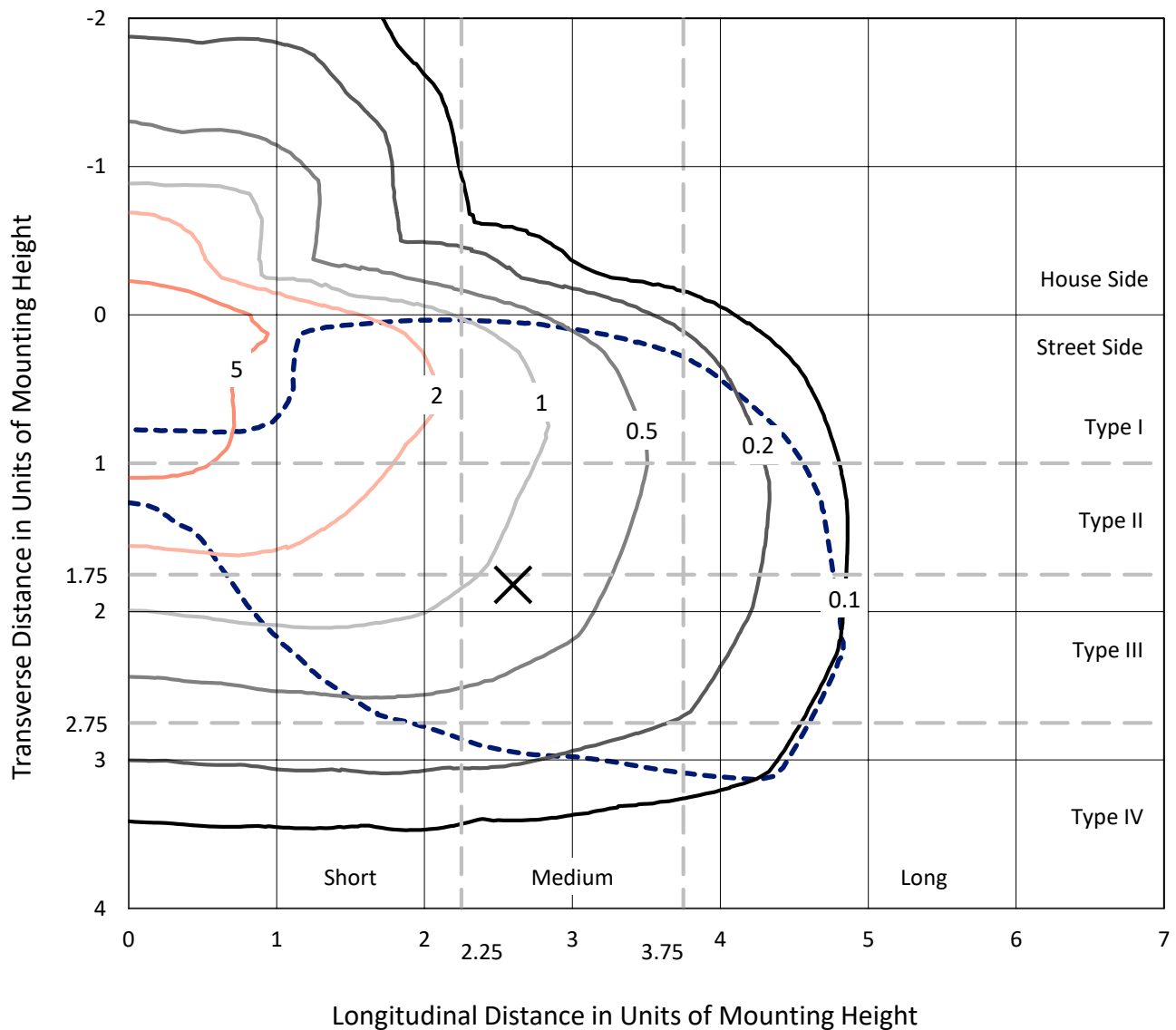
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

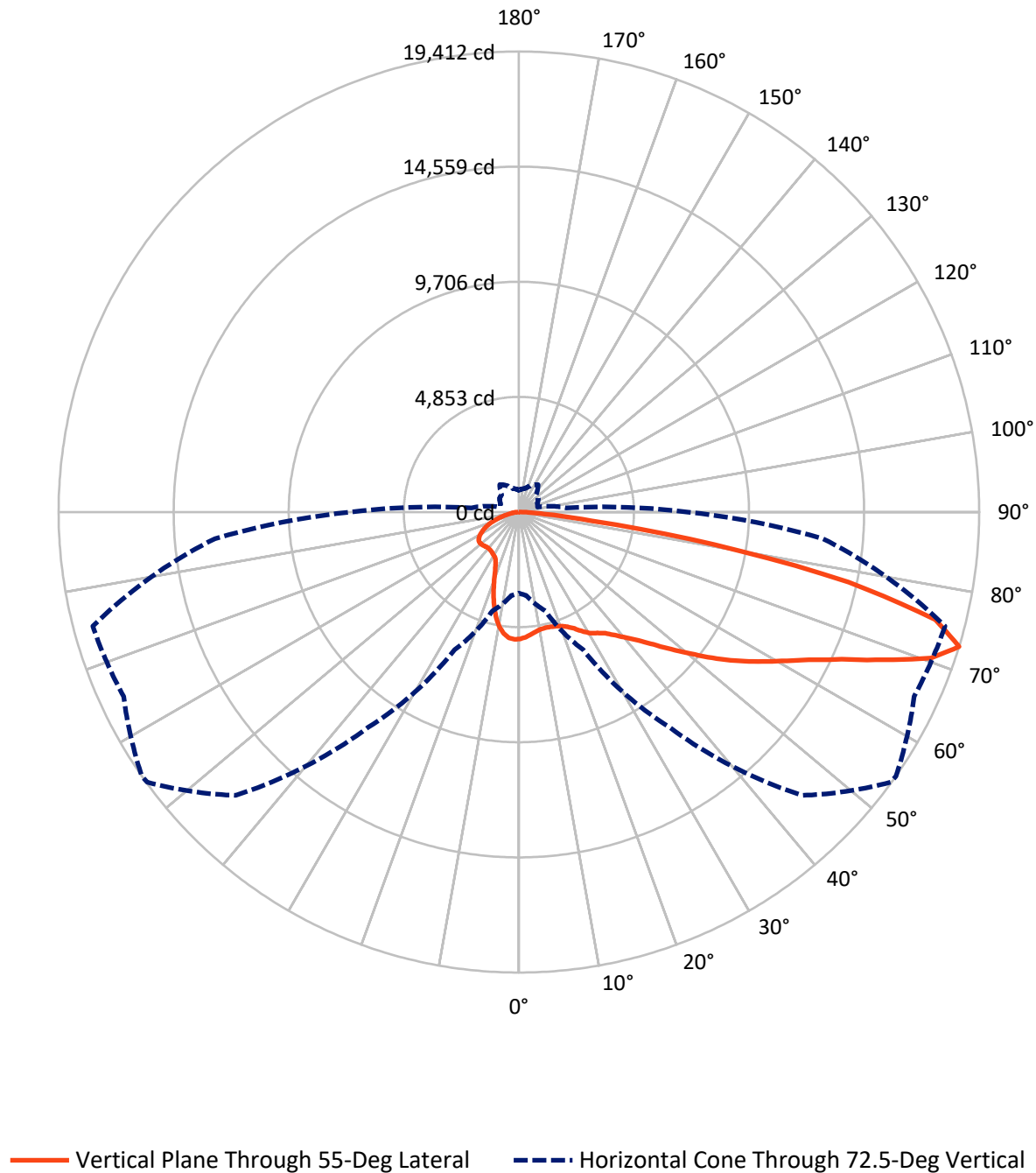
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5640.3   | 0.0    | 5640.3  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 24705.7  | 0.0    | 24705.7 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 30346.0  | 0.0    | 30346.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 484.3   | 1.6       |
| 10°-20°   | 1289.5  | 4.2       |
| 20°-30°   | 2126.0  | 7.0       |
| 30°-40°   | 3144.9  | 10.4      |
| 40°-50°   | 4389.6  | 14.5      |
| 50°-60°   | 5715.4  | 18.8      |
| 60°-70°   | 7024.0  | 23.1      |
| 70°-80°   | 5506.0  | 18.1      |
| 80°-90°   | 666.3   | 2.2       |
| 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°    | 30346.0 | 100.0     |
| 0°-180°   | 30346.0 | 100.0     |

**Coefficient of Utilization**



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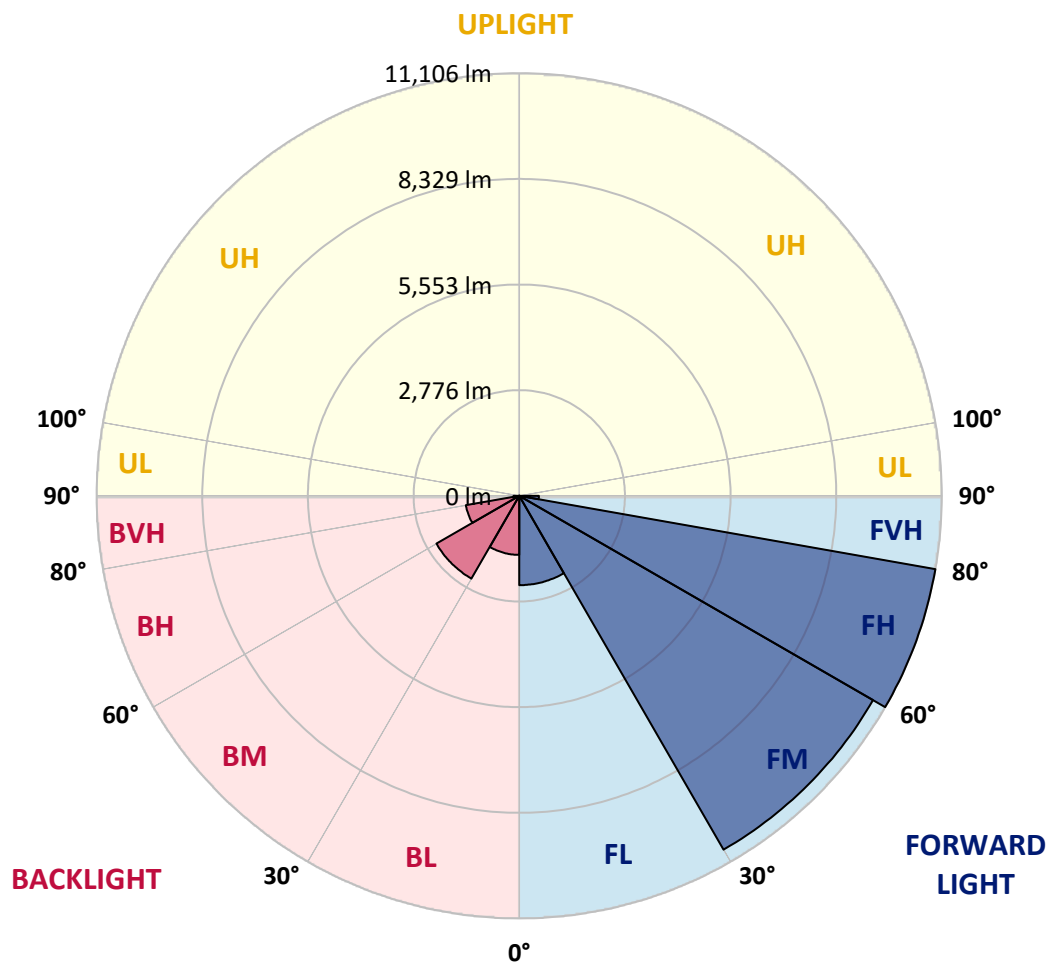
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2347.9  | 7.7       |                         |      |          |
| FM   | (30°-60°)   | 10737.0 | 35.4      |                         |      |          |
| FH   | (60°-80°)   | 11105.6 | 36.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 515.2   | 1.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1551.9  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2512.9  | 8.3       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1424.4  | 4.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 151.2   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5352.4  | 5352.4  | 5352.4  | 5352.4  | 5352.4  | 5352.4  | 5352.4  | 5352.4  | 5352.4  | 5352.4  | 5352.4  |
| 2.5°  | 5178.1  | 5165.8  | 5181.2  | 5202.7  | 5226.3  | 5258.1  | 5276.5  | 5284.7  | 5316.5  | 5328.8  | 5355.5  |
| 5°    | 4938.3  | 4932.1  | 4957.8  | 4994.7  | 5046.9  | 5120.7  | 5180.2  | 5191.5  | 5275.5  | 5335.0  | 5389.3  |
| 7.5°  | 4764.1  | 4764.1  | 4793.8  | 4837.8  | 4896.3  | 4995.7  | 5079.7  | 5095.1  | 5237.6  | 5365.7  | 5466.2  |
| 10°   | 4625.7  | 4630.8  | 4665.7  | 4717.9  | 4786.6  | 4892.2  | 5003.9  | 5021.3  | 5227.3  | 5437.5  | 5597.3  |
| 12.5° | 4533.4  | 4545.7  | 4577.5  | 4624.7  | 4709.7  | 4837.8  | 4979.3  | 5002.9  | 5248.9  | 5540.0  | 5755.2  |
| 15°   | 4591.9  | 4612.4  | 4615.4  | 4634.9  | 4682.1  | 4821.4  | 4993.6  | 5018.2  | 5295.0  | 5644.5  | 5934.6  |
| 17.5° | 4848.1  | 4855.3  | 4823.5  | 4782.5  | 4760.0  | 4849.1  | 5036.7  | 5062.3  | 5350.3  | 5748.0  | 6106.8  |
| 20°   | 5237.6  | 5233.5  | 5164.8  | 5054.1  | 4939.3  | 4953.7  | 5107.4  | 5134.1  | 5425.2  | 5839.2  | 6279.0  |
| 22.5° | 5729.6  | 5715.2  | 5609.6  | 5405.7  | 5209.9  | 5127.9  | 5231.4  | 5254.0  | 5537.9  | 5969.4  | 6463.4  |
| 25°   | 6326.1  | 6294.3  | 6154.9  | 5881.3  | 5593.2  | 5382.1  | 5418.0  | 5439.5  | 5701.9  | 6115.0  | 6632.6  |
| 27.5° | 6955.4  | 6923.7  | 6746.3  | 6415.3  | 6031.9  | 5702.9  | 5675.2  | 5693.7  | 5888.4  | 6222.6  | 6757.6  |
| 30°   | 7613.5  | 7579.6  | 7417.7  | 7046.7  | 6497.3  | 6035.0  | 5915.1  | 5922.3  | 6019.6  | 6281.0  | 6860.1  |
| 32.5° | 8274.6  | 8242.8  | 8061.4  | 7630.9  | 7002.6  | 6391.7  | 6088.3  | 6079.1  | 6098.6  | 6341.5  | 6975.9  |
| 35°   | 8944.9  | 8957.2  | 8745.0  | 8268.4  | 7562.2  | 6788.4  | 6293.3  | 6273.8  | 6230.8  | 6465.5  | 7139.9  |
| 37.5° | 9662.4  | 9654.2  | 9379.5  | 8881.3  | 8147.5  | 7218.8  | 6587.5  | 6584.4  | 6435.8  | 6700.2  | 7397.2  |
| 40°   | 10142.1 | 10147.2 | 9980.1  | 9508.6  | 8738.9  | 7695.5  | 6964.7  | 6957.5  | 6762.7  | 7051.8  | 7734.4  |
| 42.5° | 10329.6 | 10363.4 | 10406.5 | 10107.2 | 9358.0  | 8247.9  | 7414.6  | 7404.4  | 7218.8  | 7556.1  | 8131.1  |
| 45°   | 10342.9 | 10410.6 | 10677.1 | 10639.2 | 9985.2  | 8880.3  | 7989.6  | 7960.9  | 7827.7  | 8226.4  | 8604.6  |
| 47.5° | 10228.2 | 10297.9 | 10740.6 | 10955.9 | 10545.9 | 9547.6  | 8662.0  | 8639.5  | 8524.7  | 9064.8  | 9117.1  |
| 50°   | 9977.0  | 10043.7 | 10609.4 | 11110.7 | 11007.1 | 10189.2 | 9436.9  | 9377.4  | 9315.9  | 10033.4 | 9703.4  |
| 52.5° | 9506.6  | 9634.7  | 10434.2 | 11147.5 | 11282.8 | 10759.1 | 10251.7 | 10212.8 | 10246.6 | 11055.3 | 10290.7 |
| 55°   | 8392.4  | 8535.9  | 9982.2  | 11116.8 | 11486.8 | 11237.7 | 11066.6 | 11064.5 | 11239.8 | 12127.4 | 10921.0 |
| 57.5° | 7768.2  | 7869.7  | 9061.7  | 11064.5 | 11728.7 | 11713.3 | 11873.2 | 11892.7 | 12234.0 | 13294.9 | 11581.1 |
| 60°   | 7415.6  | 7522.2  | 8595.4  | 10870.8 | 12103.8 | 12328.3 | 12696.3 | 12735.2 | 13244.6 | 14587.3 | 12375.5 |
| 62.5° | 7094.8  | 7211.7  | 8306.3  | 10476.2 | 12545.6 | 13207.7 | 13682.3 | 13717.1 | 14314.7 | 15915.7 | 13143.2 |
| 65°   | 6546.5  | 6678.7  | 7883.0  | 10216.9 | 12947.4 | 14354.7 | 14935.8 | 14959.4 | 15543.6 | 17307.6 | 13730.5 |
| 67.5° | 5771.6  | 5892.5  | 7084.6  | 9643.9  | 13244.6 | 15747.6 | 16602.4 | 16615.8 | 16762.3 | 18290.5 | 14030.8 |
| 70°   | 4866.5  | 4912.7  | 5946.9  | 8461.1  | 12893.1 | 17050.3 | 18428.9 | 18432.0 | 17873.4 | 18919.9 | 13981.6 |
| 72.5° | 3419.3  | 3527.9  | 4317.2  | 6405.0  | 11079.9 | 16891.5 | 19377.0 | 19411.9 | 18390.0 | 18602.1 | 12864.4 |
| 75°   | 2097.1  | 2211.9  | 2708.0  | 3881.6  | 7029.2  | 13284.6 | 17903.1 | 18145.0 | 17421.4 | 16586.0 | 10509.0 |
| 77.5° | 1402.2  | 1445.2  | 1767.0  | 2263.1  | 3184.6  | 7643.2  | 13764.3 | 14219.4 | 14472.5 | 12095.6 | 6720.7  |
| 80°   | 782.1   | 864.0   | 1171.5  | 1406.3  | 1416.5  | 3037.0  | 8253.0  | 8359.6  | 8052.1  | 4816.3  | 2073.5  |
| 82.5° | 414.1   | 459.2   | 782.1   | 826.1   | 772.8   | 1016.8  | 3075.9  | 3079.0  | 2572.7  | 1291.5  | 616.0   |
| 85°   | 320.8   | 358.7   | 536.1   | 504.3   | 394.6   | 451.0   | 1014.7  | 1070.1  | 875.3   | 528.9   | 200.9   |
| 87.5° | 159.9   | 198.8   | 363.9   | 319.8   | 154.8   | 129.1   | 362.8   | 387.4   | 345.4   | 207.0   | 72.8    |
| 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°    | 5352.4 | 5352.4 | 5352.4 | 5352.4 | 5352.4 | 5352.4 | 5352.4 | 5352.4 | 5352.4 | 5352.4 | 5352.4 |
| 2.5°  | 5365.7 | 5374.9 | 5386.2 | 5373.9 | 5369.8 | 5353.4 | 5325.7 | 5319.6 | 5305.2 | 5306.3 | 5314.5 |
| 5°    | 5412.9 | 5428.2 | 5422.1 | 5374.9 | 5318.6 | 5239.6 | 5157.6 | 5087.9 | 5041.8 | 5038.7 | 5035.7 |
| 7.5°  | 5503.1 | 5513.3 | 5465.1 | 5330.9 | 5173.0 | 4990.6 | 4818.4 | 4667.7 | 4576.5 | 4553.9 | 4548.8 |
| 10°   | 5644.5 | 5642.4 | 5510.2 | 5239.6 | 4925.0 | 4599.0 | 4322.3 | 4113.2 | 3991.2 | 3955.4 | 3946.1 |
| 12.5° | 5802.3 | 5778.8 | 5525.6 | 5073.6 | 4574.4 | 4122.4 | 3771.9 | 3539.2 | 3412.1 | 3371.1 | 3360.9 |
| 15°   | 5965.3 | 5906.9 | 5487.7 | 4825.5 | 4143.9 | 3608.9 | 3240.9 | 3025.7 | 2957.0 | 2934.5 | 2930.4 |
| 17.5° | 6117.0 | 6004.3 | 5379.0 | 4489.4 | 3653.0 | 3097.5 | 2810.5 | 2724.4 | 2740.8 | 2770.5 | 2771.5 |
| 20°   | 6265.6 | 6069.9 | 5204.8 | 4065.0 | 3135.4 | 2676.2 | 2578.8 | 2642.4 | 2720.3 | 2780.7 | 2788.9 |
| 22.5° | 6412.2 | 6116.0 | 4980.3 | 3575.1 | 2672.1 | 2439.4 | 2508.1 | 2623.9 | 2713.1 | 2778.7 | 2790.0 |
| 25°   | 6535.2 | 6127.3 | 4670.8 | 3052.4 | 2350.3 | 2350.3 | 2474.3 | 2583.9 | 2672.1 | 2736.7 | 2747.9 |
| 27.5° | 6580.3 | 6051.4 | 4234.1 | 2568.6 | 2188.3 | 2309.3 | 2427.1 | 2518.3 | 2593.2 | 2661.8 | 2674.1 |
| 30°   | 6597.7 | 5911.0 | 3729.9 | 2180.1 | 2121.7 | 2265.2 | 2363.6 | 2441.5 | 2512.2 | 2576.8 | 2588.0 |
| 32.5° | 6600.8 | 5741.9 | 3194.8 | 1959.7 | 2075.6 | 2219.1 | 2284.7 | 2353.3 | 2429.2 | 2454.8 | 2458.9 |
| 35°   | 6620.3 | 5542.0 | 2631.1 | 1847.0 | 2032.5 | 2176.0 | 2228.3 | 2277.5 | 2154.5 | 2163.7 | 2171.9 |
| 37.5° | 6676.6 | 5344.2 | 2159.6 | 1783.4 | 2004.8 | 2153.5 | 2216.0 | 2037.6 | 1941.3 | 1918.7 | 1915.7 |
| 40°   | 6782.2 | 5133.0 | 1810.1 | 1732.2 | 1994.6 | 2164.7 | 2137.1 | 1902.3 | 1736.3 | 1612.3 | 1593.8 |
| 42.5° | 6928.8 | 4905.5 | 1586.7 | 1698.4 | 2001.8 | 2219.1 | 2027.4 | 1772.2 | 1496.5 | 1416.5 | 1406.3 |
| 45°   | 7093.8 | 4666.7 | 1465.7 | 1674.8 | 2026.4 | 2261.1 | 2004.8 | 1598.9 | 1384.7 | 1324.3 | 1319.1 |
| 47.5° | 7253.7 | 4374.6 | 1403.2 | 1664.5 | 2060.2 | 2227.3 | 1909.5 | 1545.7 | 1331.4 | 1299.7 | 1302.7 |
| 50°   | 7437.2 | 4111.1 | 1365.3 | 1653.3 | 2089.9 | 2205.7 | 1801.9 | 1518.0 | 1310.9 | 1349.9 | 1390.9 |
| 52.5° | 7591.9 | 3838.5 | 1331.4 | 1630.7 | 2101.2 | 2167.8 | 1774.2 | 1523.1 | 1310.9 | 1385.8 | 1424.7 |
| 55°   | 7775.4 | 3632.5 | 1292.5 | 1583.6 | 2079.7 | 2060.2 | 1754.7 | 1553.9 | 1326.3 | 1279.2 | 1283.3 |
| 57.5° | 8012.2 | 3564.8 | 1249.4 | 1509.8 | 2007.9 | 1903.4 | 1745.5 | 1583.6 | 1317.1 | 1287.4 | 1297.6 |
| 60°   | 8340.2 | 3636.6 | 1232.0 | 1413.4 | 1896.2 | 1780.4 | 1746.5 | 1568.2 | 1252.5 | 1201.3 | 1202.3 |
| 62.5° | 8652.8 | 3716.5 | 1231.0 | 1353.0 | 1758.8 | 1670.7 | 1723.0 | 1518.0 | 1219.7 | 1190.0 | 1201.3 |
| 65°   | 8755.3 | 3635.6 | 1181.8 | 1285.3 | 1604.1 | 1539.5 | 1679.9 | 1464.7 | 1195.1 | 1150.0 | 1148.0 |
| 67.5° | 8617.9 | 3384.4 | 1082.4 | 1175.6 | 1426.8 | 1386.8 | 1623.5 | 1401.1 | 1156.2 | 1119.3 | 1113.1 |
| 70°   | 8210.0 | 2823.8 | 959.4  | 1031.1 | 1224.8 | 1214.6 | 1534.4 | 1327.3 | 1103.9 | 1072.1 | 1045.5 |
| 72.5° | 7112.3 | 2012.0 | 808.7  | 857.9  | 997.3  | 1030.1 | 1411.4 | 1231.0 | 1030.1 | 961.4  | 920.4  |
| 75°   | 5841.3 | 1489.3 | 664.2  | 674.4  | 757.5  | 846.6  | 1242.3 | 1118.2 | 943.0  | 826.1  | 794.3  |
| 77.5° | 3577.1 | 911.2  | 528.9  | 533.0  | 543.2  | 675.5  | 1022.9 | 992.2  | 832.3  | 688.8  | 666.2  |
| 80°   | 1158.2 | 497.1  | 382.3  | 401.8  | 371.0  | 495.1  | 791.3  | 844.6  | 714.4  | 576.0  | 551.4  |
| 82.5° | 440.7  | 290.1  | 258.3  | 271.6  | 257.3  | 332.1  | 577.1  | 676.5  | 585.3  | 473.5  | 385.4  |
| 85°   | 213.2  | 164.0  | 152.7  | 171.2  | 158.9  | 170.1  | 369.0  | 498.1  | 443.8  | 308.5  | 287.0  |
| 87.5° | 75.8   | 72.8   | 58.4   | 78.9   | 67.6   | 60.5   | 112.7  | 251.1  | 293.1  | 212.2  | 189.6  |
| 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)