

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: P459459

Luminaire Tested: **GLAN-SA9A-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38840 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

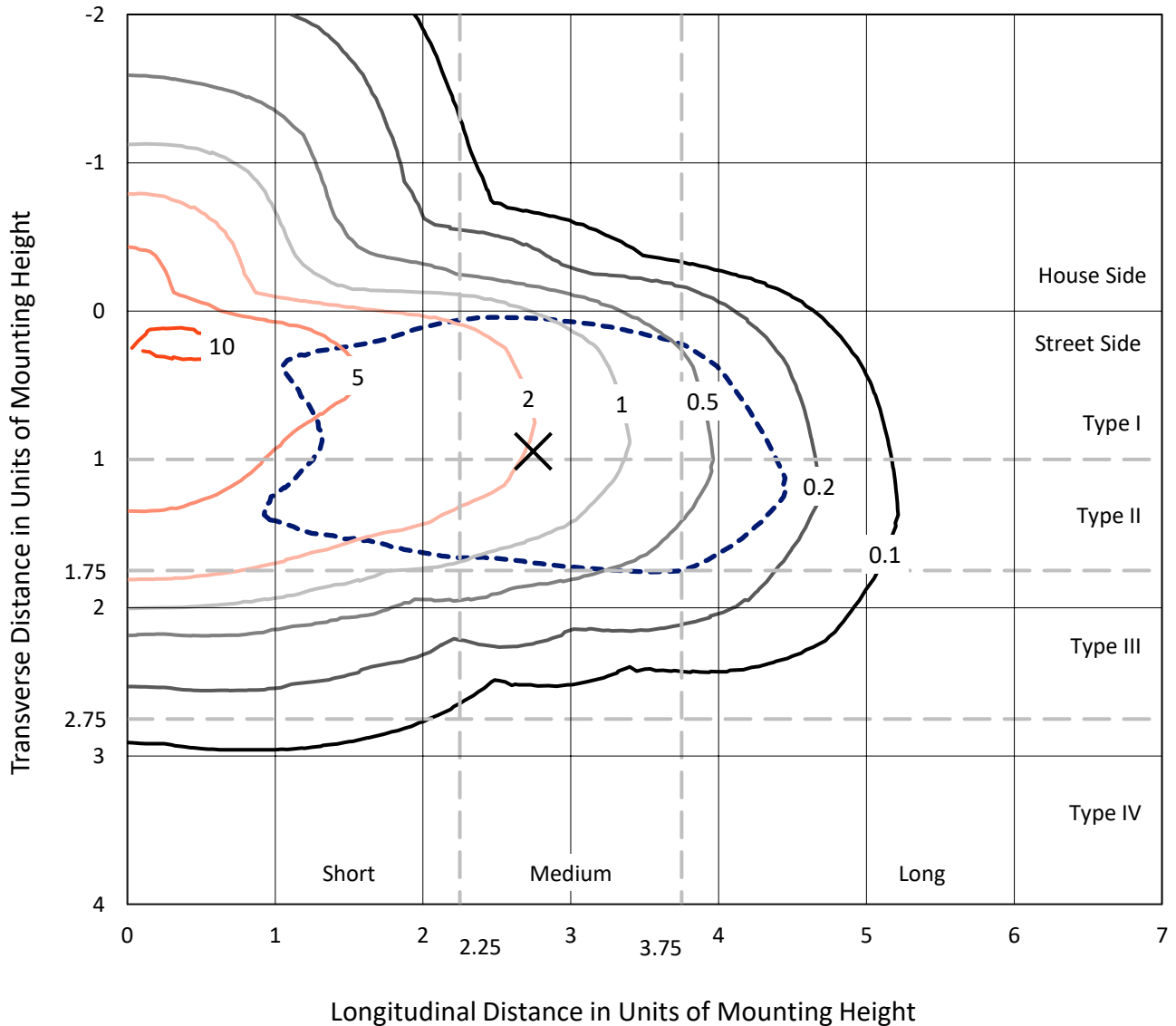
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

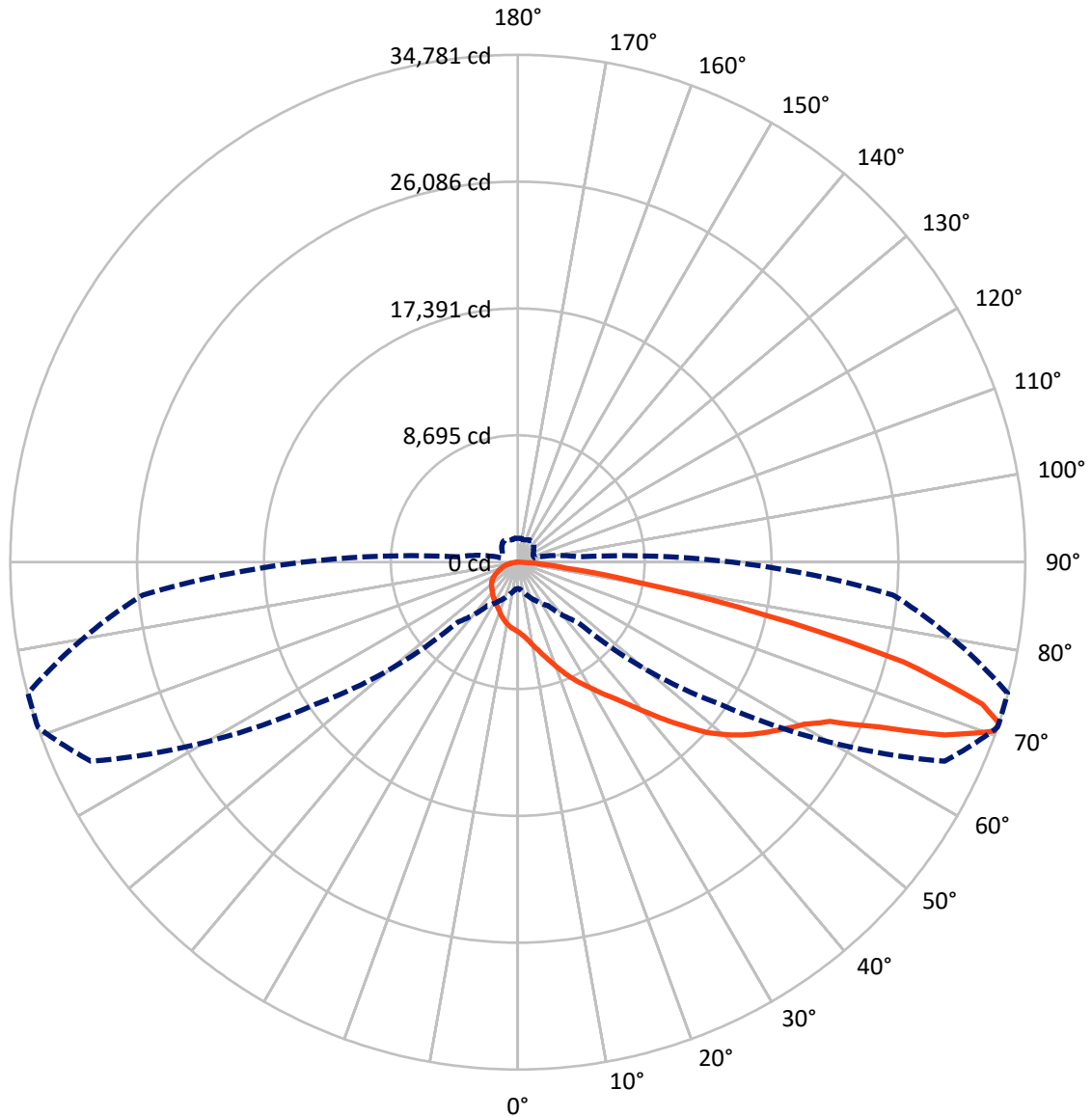
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6985.3   | 0.0    | 6985.3  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 31854.7  | 0.0    | 31854.7 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 38840.0  | 0.0    | 38840.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 478.6   | 1.2       |
| 10°-20°   | 1555.0  | 4.0       |
| 20°-30°   | 2717.5  | 7.0       |
| 30°-40°   | 4041.9  | 10.4      |
| 40°-50°   | 5955.3  | 15.3      |
| 50°-60°   | 8337.5  | 21.5      |
| 60°-70°   | 9325.2  | 24.0      |
| 70°-80°   | 5696.2  | 14.7      |
| 80°-90°   | 732.8   | 1.9       |
| 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°    | 38840.0 | 100.0     |
| 0°-180°   | 38840.0 | 100.0     |

**Coefficient of Utilization**



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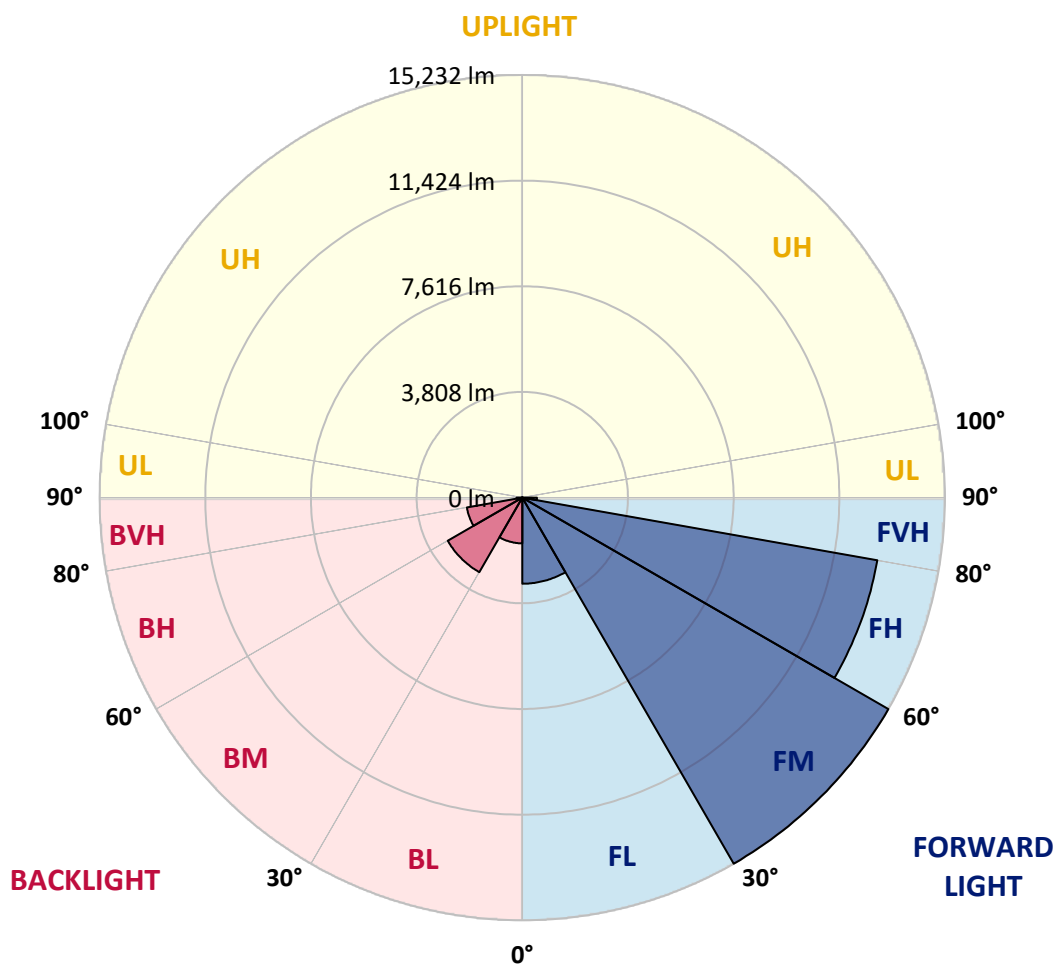
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3103.3  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 15232.3 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 12991.9 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 527.2   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1647.8  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3102.4  | 8.0       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2029.5  | 5.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 205.5   | 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-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4766.8  | 4766.8  | 4766.8  | 4766.8  | 4766.8  | 4766.8  | 4766.8  | 4766.8  | 4766.8  | 4766.8  | 4766.8  |
| 2.5°  | 5292.0  | 5266.4  | 5268.5  | 5232.2  | 5185.3  | 5134.0  | 5061.4  | 4997.4  | 4946.2  | 4916.3  | 4828.8  |
| 5°    | 5864.1  | 5838.5  | 5806.5  | 5727.5  | 5693.3  | 5567.4  | 5407.3  | 5262.1  | 5151.1  | 5089.2  | 4914.1  |
| 7.5°  | 6327.3  | 6320.9  | 6312.4  | 6267.6  | 6180.0  | 6005.0  | 5868.4  | 5616.5  | 5452.1  | 5334.7  | 5035.8  |
| 10°   | 6613.4  | 6624.1  | 6630.5  | 6639.0  | 6602.7  | 6510.9  | 6323.1  | 6005.0  | 5795.8  | 5646.4  | 5193.8  |
| 12.5° | 6758.5  | 6769.2  | 6805.5  | 6884.5  | 6933.6  | 6922.9  | 6769.2  | 6457.5  | 6169.4  | 5973.0  | 5362.4  |
| 15°   | 6848.2  | 6865.3  | 6929.3  | 7033.9  | 7198.3  | 7302.9  | 7228.2  | 6940.0  | 6624.1  | 6391.4  | 5563.1  |
| 17.5° | 6946.4  | 6965.6  | 7036.1  | 7185.5  | 7401.1  | 7627.4  | 7708.5  | 7460.9  | 7117.2  | 6839.7  | 5787.2  |
| 20°   | 7001.9  | 7027.5  | 7127.9  | 7324.2  | 7576.1  | 7904.9  | 8173.9  | 8043.6  | 7667.9  | 7360.5  | 6045.5  |
| 22.5° | 7091.6  | 7112.9  | 7198.3  | 7407.5  | 7708.5  | 8120.5  | 8639.2  | 8611.5  | 8280.6  | 7883.5  | 6329.5  |
| 25°   | 7334.9  | 7369.1  | 7411.8  | 7537.7  | 7828.0  | 8340.4  | 9025.6  | 9217.7  | 8874.1  | 8430.0  | 6589.9  |
| 27.5° | 7793.9  | 7821.6  | 7819.5  | 7836.6  | 8001.0  | 8530.4  | 9360.8  | 9817.6  | 9463.2  | 8982.9  | 6841.8  |
| 30°   | 8316.9  | 8327.6  | 8336.1  | 8297.7  | 8334.0  | 8724.6  | 9668.2  | 10411.1 | 10056.7 | 9550.8  | 7061.7  |
| 32.5° | 8953.0  | 8974.4  | 8901.8  | 8803.6  | 8773.7  | 9012.8  | 9922.2  | 11004.5 | 10759.0 | 10127.1 | 7279.4  |
| 35°   | 9704.5  | 9760.0  | 9612.7  | 9439.8  | 9318.1  | 9427.0  | 10263.8 | 11610.8 | 11478.4 | 10863.6 | 7567.6  |
| 37.5° | 10562.6 | 10630.9 | 10494.3 | 10154.9 | 9982.0  | 10011.9 | 10709.9 | 12360.1 | 12387.8 | 11702.6 | 7996.7  |
| 40°   | 11265.0 | 11354.6 | 11358.9 | 10878.6 | 10616.0 | 10650.1 | 11275.6 | 13167.0 | 13485.1 | 12740.0 | 8502.6  |
| 42.5° | 11728.2 | 11815.7 | 11907.5 | 11625.7 | 11350.3 | 11544.6 | 11935.3 | 14042.2 | 14718.9 | 13999.5 | 9209.2  |
| 45°   | 12236.3 | 12315.2 | 12366.5 | 12238.4 | 12084.7 | 12588.5 | 12731.5 | 14973.0 | 16033.9 | 15406.3 | 9982.0  |
| 47.5° | 12825.4 | 12913.0 | 12962.1 | 12840.4 | 12782.7 | 13504.3 | 13589.7 | 15841.8 | 17438.6 | 16772.5 | 10835.9 |
| 50°   | 13611.0 | 13677.2 | 13651.6 | 13574.7 | 13561.9 | 14206.6 | 14413.7 | 16655.1 | 18597.7 | 18243.4 | 11721.8 |
| 52.5° | 14588.7 | 14667.7 | 14695.5 | 14586.6 | 14537.5 | 14708.3 | 15077.6 | 17395.9 | 19652.3 | 19507.1 | 12667.5 |
| 55°   | 15180.0 | 15306.0 | 15728.7 | 15899.4 | 16016.9 | 15357.2 | 15792.7 | 18213.5 | 20598.0 | 20839.2 | 13683.6 |
| 57.5° | 14422.2 | 14584.5 | 15530.1 | 16384.0 | 17487.7 | 16979.6 | 16806.7 | 19067.4 | 21543.7 | 22130.7 | 14900.4 |
| 60°   | 12573.5 | 12609.8 | 13828.8 | 15402.1 | 17622.2 | 19065.2 | 18922.2 | 20425.1 | 22568.3 | 23432.9 | 16503.6 |
| 62.5° | 8722.5  | 8799.3  | 10240.3 | 12750.7 | 15961.3 | 19816.7 | 22521.4 | 22769.0 | 24037.0 | 25381.9 | 18853.9 |
| 65°   | 4497.9  | 4397.5  | 5710.4  | 8013.8  | 12033.5 | 18032.0 | 25437.4 | 27079.0 | 27222.0 | 28430.3 | 22162.7 |
| 67.5° | 2768.7  | 2813.6  | 3428.4  | 4679.3  | 7115.0  | 13105.1 | 25132.1 | 32345.4 | 31591.8 | 32172.5 | 25234.6 |
| 70°   | 2079.2  | 2134.7  | 2557.4  | 3202.1  | 4337.8  | 7492.9  | 20211.6 | 33621.9 | 34674.4 | 34524.9 | 26169.6 |
| 71°   | 1808.1  | 1865.8  | 2305.5  | 2913.9  | 3644.0  | 5783.0  | 17028.7 | 32285.6 | 34781.1 | 34755.5 | 25817.4 |
| 72.5° | 1541.3  | 1577.6  | 1921.3  | 2467.7  | 3071.9  | 4053.8  | 12793.4 | 28955.4 | 33297.5 | 34149.2 | 24560.0 |
| 75°   | 1210.4  | 1238.1  | 1391.8  | 1882.8  | 2418.6  | 2489.1  | 6865.3  | 21708.0 | 27348.0 | 28970.4 | 20446.4 |
| 77.5° | 986.2   | 1005.5  | 1084.4  | 1398.2  | 1865.8  | 1763.3  | 3601.3  | 14129.8 | 17133.3 | 18766.4 | 12044.1 |
| 80°   | 783.4   | 804.8   | 851.8   | 947.8   | 1398.2  | 1257.4  | 1718.5  | 7159.9  | 8276.3  | 8259.3  | 4807.4  |
| 82.5° | 608.4   | 614.8   | 670.3   | 695.9   | 956.4   | 892.3   | 930.7   | 3031.3  | 3357.9  | 3468.9  | 1735.5  |
| 85°   | 384.3   | 403.5   | 593.5   | 533.7   | 572.1   | 523.0   | 459.0   | 1204.0  | 1483.6  | 1462.3  | 693.8   |
| 87.5° | 117.4   | 123.8   | 200.7   | 226.3   | 254.0   | 228.4   | 168.6   | 354.4   | 433.3   | 469.6   | 172.9   |
| 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°    | 4766.8  | 4766.8 | 4766.8 | 4766.8 | 4766.8 | 4766.8 | 4766.8 | 4766.8 | 4766.8 | 4766.8 | 4766.8 |
| 2.5°  | 4794.6  | 4771.1 | 4687.9 | 4619.5 | 4555.5 | 4485.1 | 4425.3 | 4408.2 | 4393.3 | 4386.9 | 4384.7 |
| 5°    | 4839.4  | 4769.0 | 4604.6 | 4470.1 | 4363.4 | 4265.2 | 4203.3 | 4175.5 | 4147.8 | 4147.8 | 4156.3 |
| 7.5°  | 4903.5  | 4775.4 | 4521.4 | 4320.7 | 4186.2 | 4094.4 | 4049.6 | 4045.3 | 4051.7 | 4058.1 | 4060.2 |
| 10°   | 4973.9  | 4771.1 | 4399.7 | 4149.9 | 4030.4 | 3987.7 | 3989.8 | 4026.1 | 4060.2 | 4085.9 | 4090.1 |
| 12.5° | 5042.2  | 4745.5 | 4256.6 | 3989.8 | 3913.0 | 3921.5 | 3981.3 | 4062.4 | 4128.6 | 4164.9 | 4167.0 |
| 15°   | 5119.1  | 4704.9 | 4083.7 | 3838.2 | 3812.6 | 3878.8 | 3989.8 | 4113.6 | 4213.9 | 4273.7 | 4280.1 |
| 17.5° | 5183.1  | 4636.6 | 3902.3 | 3690.9 | 3723.0 | 3844.6 | 3998.3 | 4158.4 | 4280.1 | 4354.8 | 4367.7 |
| 20°   | 5255.7  | 4549.1 | 3714.4 | 3550.0 | 3641.8 | 3806.2 | 3981.3 | 4154.2 | 4280.1 | 4352.7 | 4369.8 |
| 22.5° | 5313.3  | 4425.3 | 3535.1 | 3434.8 | 3569.3 | 3759.3 | 3923.6 | 4062.4 | 4164.9 | 4203.3 | 4228.9 |
| 25°   | 5336.8  | 4269.5 | 3366.5 | 3340.8 | 3511.6 | 3682.4 | 3793.4 | 3872.4 | 3904.4 | 3900.1 | 3910.8 |
| 27.5° | 5324.0  | 4090.1 | 3221.3 | 3266.1 | 3439.0 | 3562.9 | 3618.4 | 3612.0 | 3554.3 | 3501.0 | 3526.6 |
| 30°   | 5270.6  | 3876.7 | 3099.6 | 3189.3 | 3345.1 | 3413.4 | 3404.9 | 3321.6 | 3212.8 | 3112.4 | 3118.8 |
| 32.5° | 5174.6  | 3646.1 | 2986.5 | 3101.8 | 3212.8 | 3242.6 | 3185.0 | 3076.1 | 2920.3 | 2790.1 | 2770.9 |
| 35°   | 5093.5  | 3426.2 | 2886.1 | 3001.4 | 3080.4 | 3065.5 | 3010.0 | 2869.1 | 2728.2 | 2612.9 | 2593.7 |
| 37.5° | 5080.6  | 3238.4 | 2790.1 | 2888.3 | 2933.1 | 2911.8 | 2843.5 | 2723.9 | 2672.7 | 2585.2 | 2574.5 |
| 40°   | 5149.0  | 3106.0 | 2691.9 | 2768.7 | 2790.1 | 2773.0 | 2698.3 | 2630.0 | 2676.9 | 2655.6 | 2655.6 |
| 42.5° | 5334.7  | 3035.6 | 2604.4 | 2649.2 | 2666.3 | 2679.1 | 2625.7 | 2568.1 | 2625.7 | 2527.5 | 2495.5 |
| 45°   | 5629.3  | 3037.7 | 2525.4 | 2531.8 | 2583.0 | 2627.8 | 2591.6 | 2506.2 | 2476.3 | 2279.9 | 2241.5 |
| 47.5° | 6062.6  | 3110.3 | 2461.3 | 2420.8 | 2512.6 | 2587.3 | 2536.1 | 2412.2 | 2279.9 | 2149.7 | 2126.2 |
| 50°   | 6568.6  | 3240.5 | 2403.7 | 2305.5 | 2418.6 | 2536.1 | 2497.6 | 2352.5 | 2215.8 | 2136.9 | 2121.9 |
| 52.5° | 7130.0  | 3404.9 | 2333.3 | 2177.4 | 2303.4 | 2512.6 | 2506.2 | 2343.9 | 2156.1 | 2102.7 | 2089.9 |
| 55°   | 7823.8  | 3567.1 | 2245.7 | 2028.0 | 2200.9 | 2493.4 | 2482.7 | 2273.5 | 2143.3 | 2104.8 | 2100.6 |
| 57.5° | 8630.7  | 3801.9 | 2119.8 | 1876.4 | 2083.5 | 2414.4 | 2390.9 | 2230.8 | 2100.6 | 2072.8 | 2070.7 |
| 60°   | 9930.7  | 4167.0 | 1940.5 | 1737.7 | 1963.9 | 2275.6 | 2305.5 | 2158.2 | 2032.3 | 2025.9 | 2023.7 |
| 62.5° | 11640.7 | 4679.3 | 1754.7 | 1594.6 | 1825.2 | 2096.3 | 2181.7 | 2060.0 | 1959.7 | 1991.7 | 1996.0 |
| 65°   | 14001.7 | 5110.5 | 1562.6 | 1473.0 | 1671.5 | 1923.4 | 2064.3 | 1968.2 | 1878.6 | 1940.5 | 1940.5 |
| 67.5° | 15540.8 | 5119.1 | 1387.6 | 1347.0 | 1515.7 | 1778.2 | 1940.5 | 1859.3 | 1774.0 | 1878.6 | 1882.8 |
| 70°   | 15220.6 | 4485.1 | 1242.4 | 1214.7 | 1364.1 | 1622.4 | 1803.8 | 1739.8 | 1641.6 | 1735.5 | 1701.4 |
| 71°   | 14704.0 | 4132.8 | 1184.8 | 1163.4 | 1304.3 | 1547.7 | 1739.8 | 1686.4 | 1588.2 | 1650.1 | 1630.9 |
| 72.5° | 13880.0 | 3588.5 | 1090.8 | 1095.1 | 1214.7 | 1453.7 | 1650.1 | 1594.6 | 1496.4 | 1530.6 | 1524.2 |
| 75°   | 11732.5 | 3133.8 | 932.9  | 952.1  | 1043.9 | 1293.6 | 1470.8 | 1428.1 | 1327.8 | 1327.8 | 1321.4 |
| 77.5° | 7334.9  | 2190.2 | 774.9  | 785.6  | 885.9  | 1107.9 | 1263.8 | 1227.5 | 1131.4 | 1099.4 | 1090.8 |
| 80°   | 2736.7  | 1131.4 | 606.3  | 619.1  | 681.0  | 873.1  | 1046.0 | 1011.9 | 913.7  | 877.4  | 843.2  |
| 82.5° | 1035.3  | 567.8  | 446.2  | 435.5  | 501.7  | 666.0  | 819.7  | 779.2  | 702.3  | 614.8  | 589.2  |
| 85°   | 390.7   | 281.8  | 273.2  | 264.7  | 294.6  | 394.9  | 508.1  | 499.5  | 418.4  | 356.5  | 350.1  |
| 87.5° | 102.5   | 91.8   | 106.7  | 79.0   | 83.3   | 74.7   | 76.9   | 32.0   | 14.9   | 6.4    | 4.3    |
| 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)