

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: P318764

Luminaire Tested: **GAN-SA0B-750-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0B-750-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56903 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 419  
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

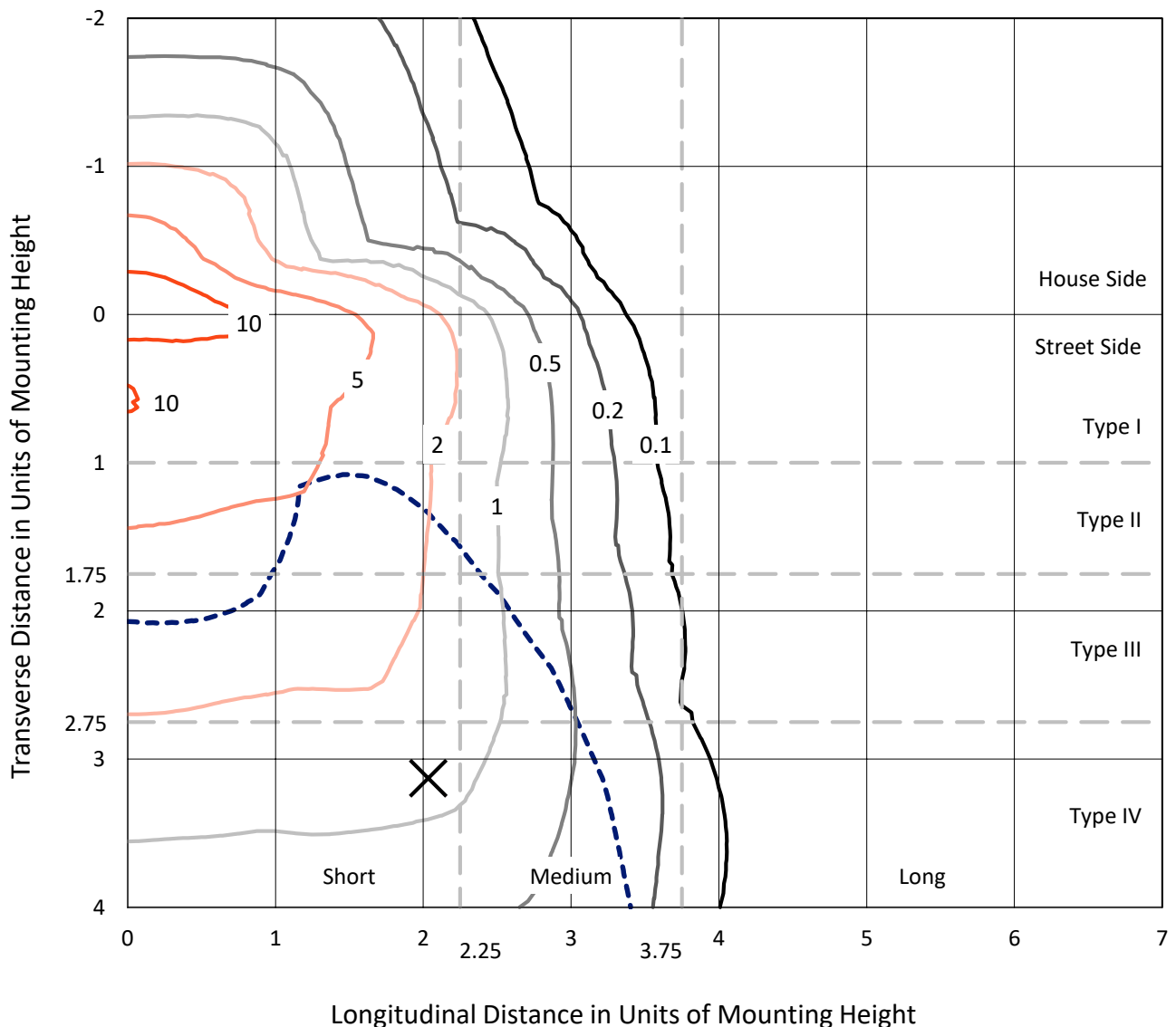




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### Iso-Footcandle Lines of Horizontal Illumination

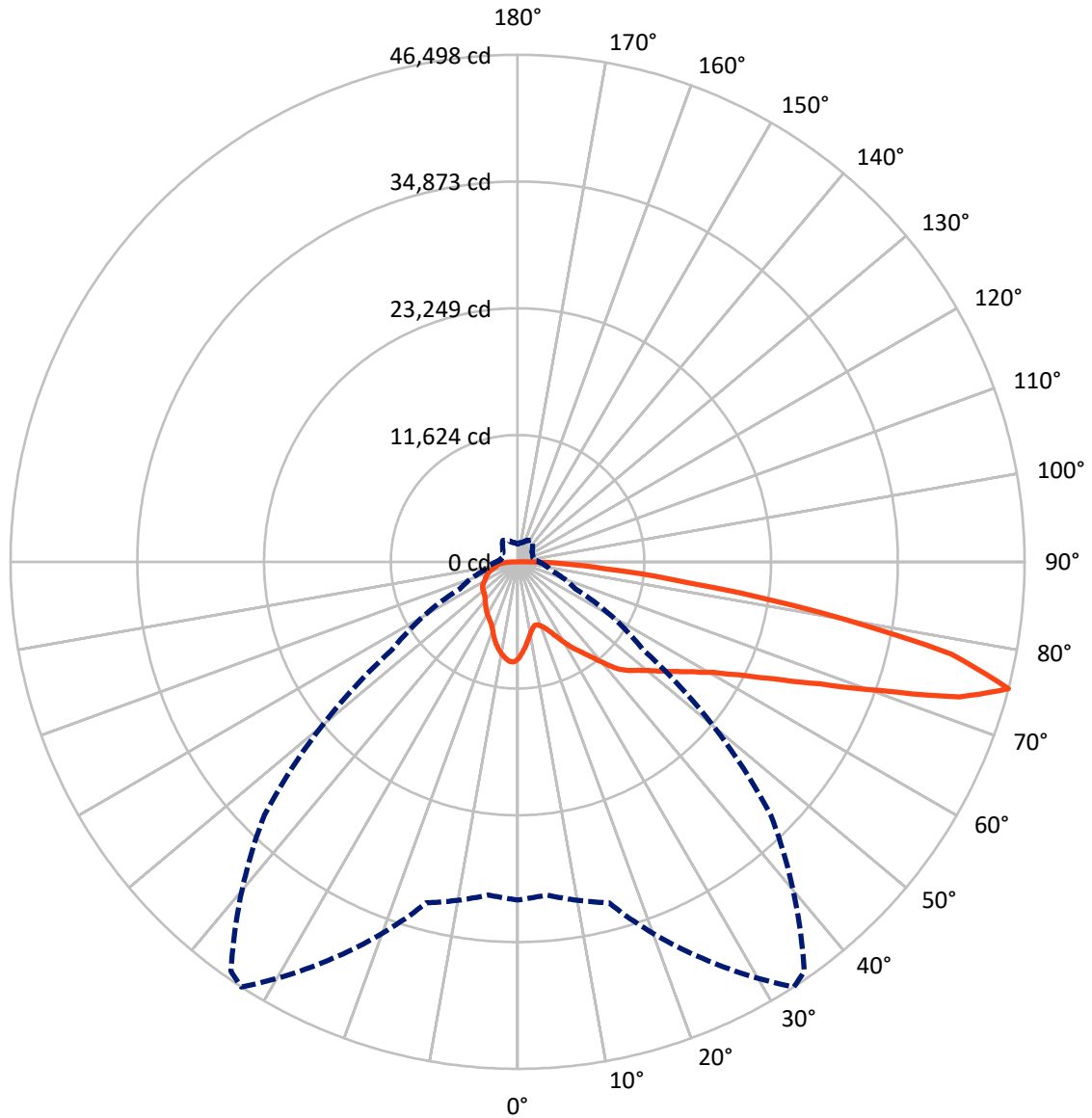
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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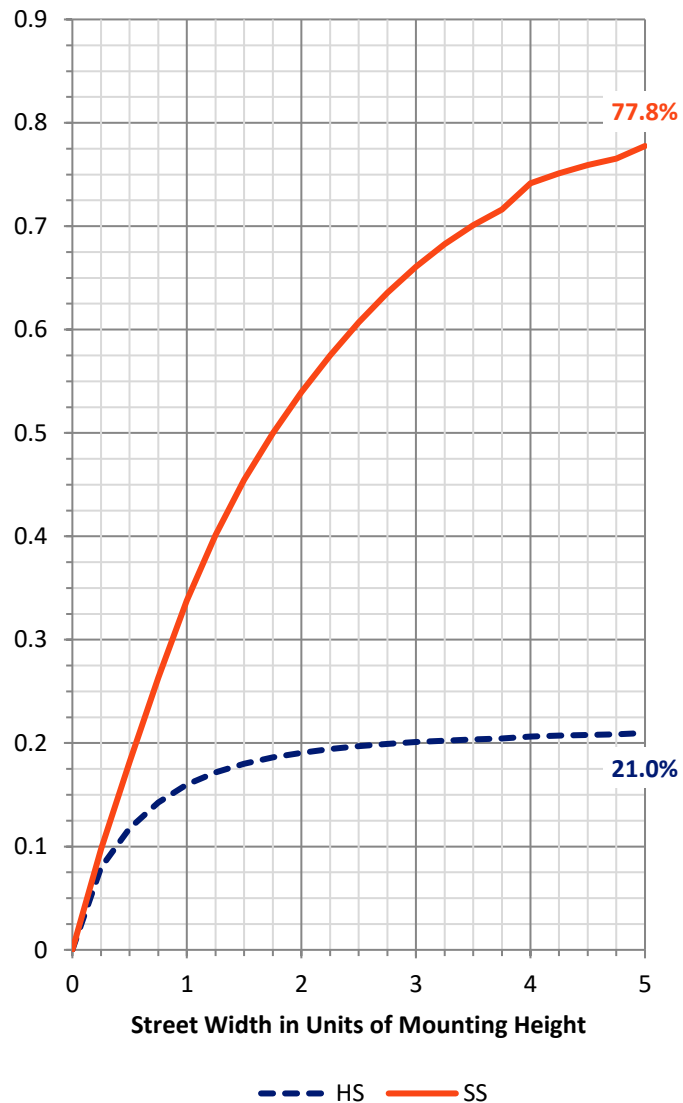
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12218.6  | 0.0    | 12218.6 |
|                    | % Fixture | 21.5     | 0.0    | 21.5    |
| <b>Street Side</b> | Lumens    | 44684.4  | 0.0    | 44684.4 |
|                    | % Fixture | 78.5     | 0.0    | 78.5    |
| <b>Total</b>       | Lumens    | 56903.0  | 0.0    | 56903.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 804.4   | 1.4       |
| 10°-20°   | 2178.6  | 3.8       |
| 20°-30°   | 3558.0  | 6.3       |
| 30°-40°   | 5298.6  | 9.3       |
| 40°-50°   | 7599.7  | 13.4      |
| 50°-60°   | 10433.2 | 18.3      |
| 60°-70°   | 13061.8 | 23.0      |
| 70°-80°   | 11816.4 | 20.8      |
| 80°-90°   | 2152.4  | 3.8       |
| 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°    | 56903.0 | 100.0     |
| 0°-180°   | 56903.0 | 100.0     |

**Coefficient of Utilization**

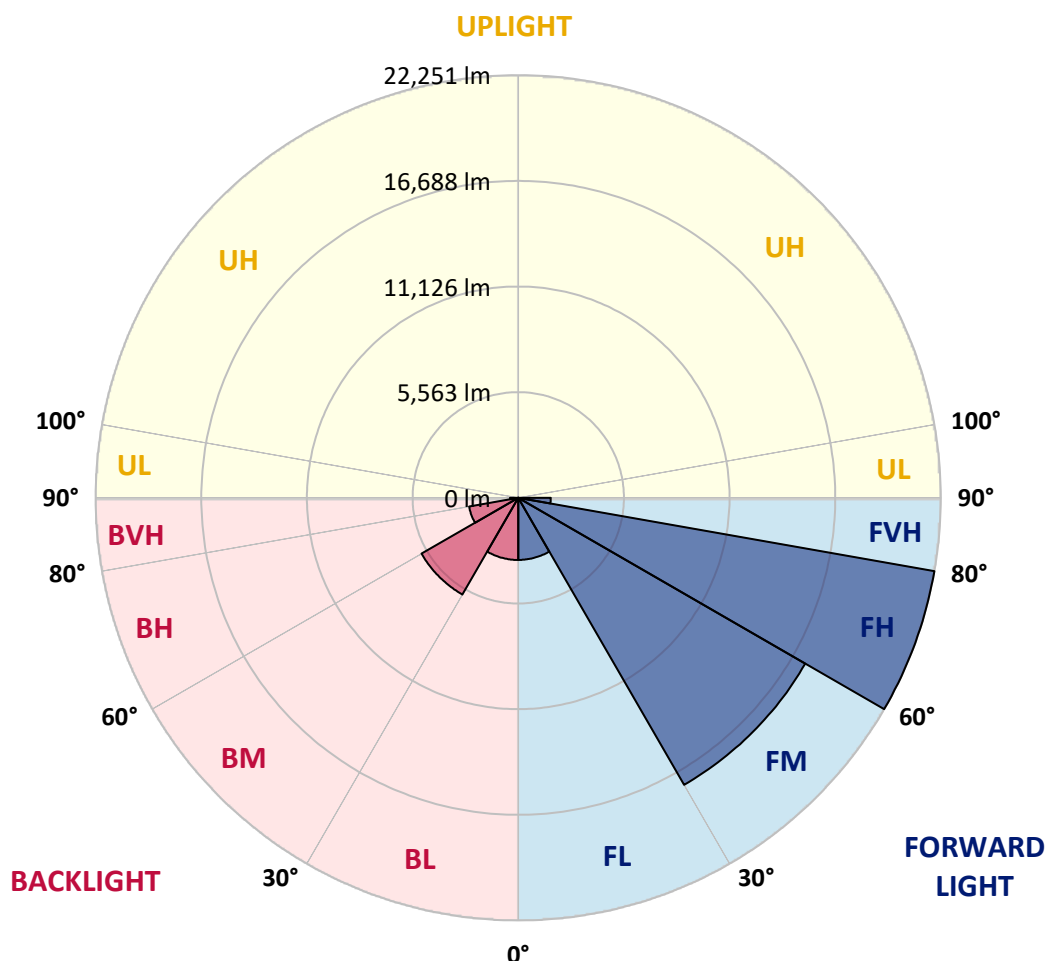


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3268.2  | 5.7       |                         |      |         |
| FM (30°-60°)   | 17451.0 | 30.7      |                         |      |         |
| FH (60°-80°)   | 22251.1 | 39.1      |                         |      | G5      |
| FVH (80°-90°)  | 1714.2  | 3.0       |                         |      | G5      |
| BL (0°-30°)    | 3272.7  | 5.8       | B4/5000                 |      |         |
| BM (30°-60°)   | 5880.4  | 10.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 2627.2  | 4.6       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 438.2   | 0.8       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 33°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8894.3  | 8894.3  | 8894.3  | 8894.3  | 8894.3  | 8894.3  | 8894.3  | 8894.3  | 8894.3  | 8894.3  | 8894.3  |
| 2.5°  | 8259.4  | 8227.9  | 8286.9  | 8294.8  | 8345.9  | 8365.5  | 8436.3  | 8546.3  | 8636.8  | 8740.9  | 8835.3  |
| 5°    | 7510.5  | 7488.9  | 7571.4  | 7630.4  | 7742.4  | 7789.6  | 7956.7  | 8190.6  | 8398.9  | 8634.8  | 8849.0  |
| 7.5°  | 6798.9  | 6787.2  | 6879.5  | 7013.2  | 7142.9  | 7207.8  | 7496.7  | 7836.8  | 8184.7  | 8566.0  | 8894.3  |
| 10°   | 6199.4  | 6195.5  | 6284.0  | 6415.7  | 6606.3  | 6679.0  | 7052.5  | 7500.7  | 7988.1  | 8512.9  | 8970.9  |
| 12.5° | 5863.3  | 5877.1  | 5918.4  | 6028.4  | 6205.3  | 6278.1  | 6692.8  | 7219.6  | 7823.0  | 8495.2  | 9083.0  |
| 15°   | 5945.9  | 5967.5  | 5896.7  | 5892.8  | 6018.6  | 6075.6  | 6464.8  | 7019.1  | 7705.1  | 8524.7  | 9246.1  |
| 17.5° | 6297.7  | 6301.7  | 6114.9  | 5997.0  | 6073.6  | 6103.1  | 6394.0  | 6905.1  | 7636.3  | 8591.6  | 9450.5  |
| 20°   | 6793.1  | 6783.2  | 6453.0  | 6256.4  | 6297.7  | 6305.6  | 6494.3  | 6907.1  | 7630.4  | 8707.5  | 9715.9  |
| 22.5° | 7449.6  | 7376.8  | 6932.6  | 6665.3  | 6655.5  | 6643.7  | 6751.8  | 7052.5  | 7716.9  | 8896.2  | 10032.3 |
| 25°   | 8306.5  | 8237.8  | 7626.5  | 7260.9  | 7182.2  | 7152.8  | 7168.5  | 7363.1  | 7887.9  | 9098.7  | 10386.1 |
| 27.5° | 9259.9  | 9140.0  | 8550.3  | 8033.3  | 7870.2  | 7828.9  | 7734.6  | 7801.4  | 8074.6  | 9293.3  | 10806.8 |
| 30°   | 10057.9 | 9993.0  | 9478.0  | 8864.8  | 8672.1  | 8613.2  | 8365.5  | 8292.8  | 8343.9  | 9558.6  | 11337.5 |
| 32.5° | 10504.1 | 10460.8 | 10148.3 | 9653.0  | 9474.1  | 9391.6  | 9041.7  | 8896.2  | 8776.3  | 9977.3  | 12056.9 |
| 35°   | 11044.6 | 11017.1 | 10828.4 | 10468.7 | 10203.3 | 10116.8 | 9845.6  | 9694.2  | 9385.7  | 10553.2 | 12986.6 |
| 37.5° | 11732.6 | 11703.1 | 11707.0 | 11416.1 | 11099.6 | 11019.1 | 10840.2 | 10681.0 | 10175.8 | 11310.0 | 13996.9 |
| 40°   | 12510.9 | 12453.9 | 12432.3 | 12418.5 | 12218.1 | 12172.8 | 12078.5 | 11862.3 | 11166.5 | 12214.1 | 14993.5 |
| 42.5° | 13682.4 | 13480.0 | 13047.5 | 13210.7 | 13409.2 | 13385.6 | 13462.3 | 13151.7 | 12267.2 | 13283.4 | 15966.4 |
| 45°   | 14812.6 | 14480.4 | 13733.5 | 13768.9 | 14203.3 | 14335.0 | 14908.9 | 14688.8 | 13460.3 | 14454.9 | 16972.8 |
| 47.5° | 15327.6 | 15076.0 | 14441.1 | 14443.1 | 14873.6 | 15146.8 | 16404.7 | 16247.5 | 14714.3 | 15785.6 | 18201.3 |
| 50°   | 15903.5 | 15651.9 | 15081.9 | 15296.2 | 15671.6 | 15962.5 | 17849.4 | 17768.9 | 15907.5 | 17242.1 | 19673.5 |
| 52.5° | 16532.5 | 16106.0 | 15744.3 | 16127.6 | 16654.4 | 16992.5 | 19296.1 | 19076.0 | 17002.3 | 18708.4 | 21365.9 |
| 55°   | 16540.4 | 16424.4 | 16699.6 | 16980.7 | 17768.9 | 18183.6 | 20811.6 | 20229.8 | 17894.7 | 20149.2 | 22743.7 |
| 57.5° | 17481.9 | 17293.2 | 17877.0 | 18006.7 | 19036.7 | 19504.5 | 22319.2 | 21234.2 | 18802.8 | 21253.8 | 23486.7 |
| 60°   | 18728.1 | 18566.9 | 19044.5 | 19386.5 | 20605.2 | 21230.2 | 23929.0 | 22266.1 | 19516.3 | 22087.2 | 23451.4 |
| 62.5° | 20880.4 | 20697.6 | 20691.7 | 21171.3 | 22812.5 | 23539.8 | 25735.4 | 23278.4 | 19799.3 | 22252.4 | 22450.9 |
| 65°   | 24031.2 | 23740.3 | 23191.9 | 23419.9 | 25861.2 | 26586.5 | 27754.0 | 24011.5 | 19425.8 | 21367.8 | 19874.0 |
| 67.5° | 27097.5 | 27087.7 | 26413.5 | 26881.3 | 29886.7 | 30468.5 | 30053.7 | 24084.3 | 18260.3 | 18287.8 | 15302.1 |
| 70°   | 30154.0 | 30193.3 | 30079.3 | 31706.8 | 35325.4 | 35930.8 | 32502.9 | 23107.4 | 15640.1 | 13206.7 | 9167.5  |
| 72.5° | 32575.6 | 32565.8 | 33139.7 | 37336.2 | 42383.8 | 42248.2 | 34566.7 | 20147.2 | 11229.4 | 7129.2  | 4381.3  |
| 75°   | 31007.1 | 30665.0 | 32375.1 | 40123.4 | 46497.8 | 45835.4 | 32811.5 | 14053.9 | 5828.0  | 3245.2  | 2358.7  |
| 77.5° | 20223.9 | 20548.2 | 23058.2 | 33145.6 | 40671.8 | 39865.9 | 24072.5 | 6557.2  | 2745.9  | 2128.7  | 1710.1  |
| 80°   | 7323.8  | 7665.8  | 10796.9 | 18775.2 | 28021.3 | 27889.6 | 11854.4 | 2694.8  | 1857.5  | 1607.8  | 1246.2  |
| 82.5° | 2519.9  | 2645.7  | 4259.4  | 8338.0  | 15821.0 | 16410.6 | 4459.9  | 1531.2  | 1350.4  | 1140.0  | 853.1   |
| 85°   | 988.7   | 1132.2  | 1947.9  | 4011.8  | 7980.3  | 8039.2  | 1806.4  | 916.0   | 939.5   | 746.9   | 467.8   |
| 87.5° | 375.4   | 456.0   | 931.7   | 1863.4  | 3644.2  | 3347.4  | 646.7   | 436.4   | 534.6   | 444.2   | 222.1   |
| 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°    | 8894.3  | 8894.3  | 8894.3 | 8894.3 | 8894.3 | 8894.3 | 8894.3 | 8894.3 | 8894.3 | 8894.3 | 8894.3 |
| 2.5°  | 8908.0  | 8949.3  | 9035.8 | 9094.7 | 9157.6 | 9175.3 | 9183.2 | 9198.9 | 9214.6 | 9208.8 | 9210.7 |
| 5°    | 8963.1  | 9043.6  | 9183.2 | 9242.2 | 9269.7 | 9238.2 | 9177.3 | 9128.2 | 9092.8 | 9073.1 | 9067.2 |
| 7.5°  | 9053.5  | 9167.5  | 9316.9 | 9307.0 | 9244.1 | 9104.6 | 8947.3 | 8829.4 | 8731.1 | 8695.7 | 8676.1 |
| 10°   | 9173.4  | 9307.0  | 9411.2 | 9299.2 | 9116.4 | 8874.6 | 8638.7 | 8455.9 | 8308.5 | 8251.5 | 8241.7 |
| 12.5° | 9326.7  | 9462.3  | 9482.0 | 9244.1 | 8941.4 | 8611.2 | 8290.8 | 8049.1 | 7828.9 | 7758.2 | 7742.4 |
| 15°   | 9525.2  | 9653.0  | 9531.1 | 9147.8 | 8725.2 | 8281.0 | 7866.3 | 7538.0 | 7306.1 | 7219.6 | 7188.1 |
| 17.5° | 9733.6  | 9855.4  | 9540.9 | 8988.6 | 8442.2 | 7889.8 | 7369.0 | 7032.9 | 6767.5 | 6667.3 | 6655.5 |
| 20°   | 9983.2  | 10038.2 | 9499.7 | 8760.6 | 8053.0 | 7382.7 | 6834.3 | 6517.9 | 6376.3 | 6305.6 | 6297.7 |
| 22.5° | 10291.8 | 10232.8 | 9405.3 | 8452.0 | 7559.6 | 6797.0 | 6350.8 | 6203.4 | 6168.0 | 6152.3 | 6158.2 |
| 25°   | 10618.1 | 10437.2 | 9265.8 | 8049.1 | 6936.5 | 6211.2 | 5997.0 | 6038.3 | 6085.4 | 6079.5 | 6079.5 |
| 27.5° | 10977.8 | 10645.6 | 9051.5 | 7514.4 | 6246.6 | 5731.6 | 5757.2 | 5908.5 | 5979.3 | 5977.3 | 5975.4 |
| 30°   | 11439.7 | 10881.5 | 8778.3 | 6871.7 | 5601.9 | 5393.6 | 5548.8 | 5733.6 | 5829.9 | 5826.0 | 5828.0 |
| 32.5° | 12007.7 | 11140.9 | 8406.8 | 6154.2 | 5136.1 | 5143.9 | 5322.8 | 5505.6 | 5617.6 | 5607.8 | 5609.8 |
| 35°   | 12672.1 | 11431.8 | 7903.6 | 5446.6 | 4827.5 | 4945.4 | 5086.9 | 5214.7 | 5320.8 | 5307.1 | 5293.3 |
| 37.5° | 13395.4 | 11716.8 | 7235.3 | 4813.7 | 4575.9 | 4760.6 | 4878.6 | 4900.2 | 4949.3 | 4914.0 | 4888.4 |
| 40°   | 14083.4 | 11935.0 | 6374.4 | 4294.8 | 4322.3 | 4603.4 | 4680.1 | 4593.6 | 4505.1 | 4493.3 | 4457.9 |
| 42.5° | 14682.9 | 12007.7 | 5503.6 | 3880.1 | 4055.0 | 4438.3 | 4485.5 | 4304.6 | 4145.4 | 4070.7 | 4039.3 |
| 45°   | 15315.8 | 12033.3 | 4691.8 | 3532.2 | 3797.5 | 4290.9 | 4342.0 | 4100.2 | 3876.1 | 3714.9 | 3661.9 |
| 47.5° | 16143.3 | 12218.1 | 4060.9 | 3274.7 | 3600.9 | 4192.6 | 4265.3 | 3937.1 | 3646.2 | 3416.2 | 3367.0 |
| 50°   | 17226.4 | 12583.7 | 3547.9 | 3078.1 | 3473.2 | 4127.7 | 4210.3 | 3777.8 | 3457.5 | 3180.3 | 3131.2 |
| 52.5° | 18429.3 | 12919.8 | 3133.1 | 2918.9 | 3349.4 | 4013.7 | 4139.5 | 3663.8 | 3280.6 | 2962.1 | 2909.1 |
| 55°   | 19270.6 | 12662.3 | 2799.0 | 2753.8 | 3188.2 | 3850.6 | 4041.2 | 3567.5 | 3027.0 | 2749.8 | 2702.7 |
| 57.5° | 19431.7 | 11781.7 | 2545.4 | 2582.8 | 2993.6 | 3646.2 | 3889.9 | 3353.3 | 2889.4 | 2657.5 | 2608.3 |
| 60°   | 18991.5 | 10555.2 | 2356.7 | 2425.5 | 2785.2 | 3388.7 | 3606.8 | 3201.9 | 2757.7 | 2559.2 | 2517.9 |
| 62.5° | 17884.8 | 9299.2  | 2217.2 | 2284.0 | 2590.6 | 3127.2 | 3429.9 | 3042.7 | 2624.1 | 2447.1 | 2405.9 |
| 65°   | 15650.0 | 7807.3  | 2083.5 | 2158.2 | 2409.8 | 2901.2 | 3270.7 | 2895.3 | 2492.4 | 2356.7 | 2317.4 |
| 67.5° | 11813.1 | 5847.6  | 1957.7 | 2024.5 | 2248.6 | 2704.6 | 3097.8 | 2749.8 | 2364.6 | 2278.1 | 2230.9 |
| 70°   | 6956.2  | 3661.9  | 1814.2 | 1885.0 | 2079.6 | 2500.2 | 2913.0 | 2590.6 | 2205.4 | 2166.1 | 2105.1 |
| 72.5° | 3237.3  | 2203.4  | 1651.1 | 1719.9 | 1867.3 | 2227.0 | 2675.2 | 2382.3 | 2016.7 | 1930.2 | 1847.6 |
| 75°   | 1932.2  | 1611.8  | 1458.5 | 1519.4 | 1623.6 | 1936.1 | 2376.4 | 2170.0 | 1837.8 | 1723.8 | 1637.3 |
| 77.5° | 1444.7  | 1232.4  | 1246.2 | 1311.0 | 1395.6 | 1694.3 | 2105.1 | 2002.9 | 1700.2 | 1611.8 | 1552.8 |
| 80°   | 1039.8  | 935.6   | 1016.2 | 1087.0 | 1175.4 | 1541.0 | 2016.7 | 1851.6 | 1537.1 | 1419.2 | 1364.1 |
| 82.5° | 693.9   | 672.2   | 764.6  | 837.3  | 923.8  | 1348.4 | 1894.8 | 1621.6 | 1313.0 | 1163.6 | 1041.8 |
| 85°   | 383.3   | 404.9   | 515.0  | 546.4  | 621.1  | 949.4  | 1552.8 | 1303.2 | 988.7  | 796.1  | 760.7  |
| 87.5° | 159.2   | 186.7   | 277.1  | 267.3  | 330.2  | 566.1  | 1022.1 | 786.2  | 629.0  | 469.8  | 365.6  |
| 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)