

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: P318493

Luminaire Tested: **GAN-SA9C-760-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-760-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63245 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

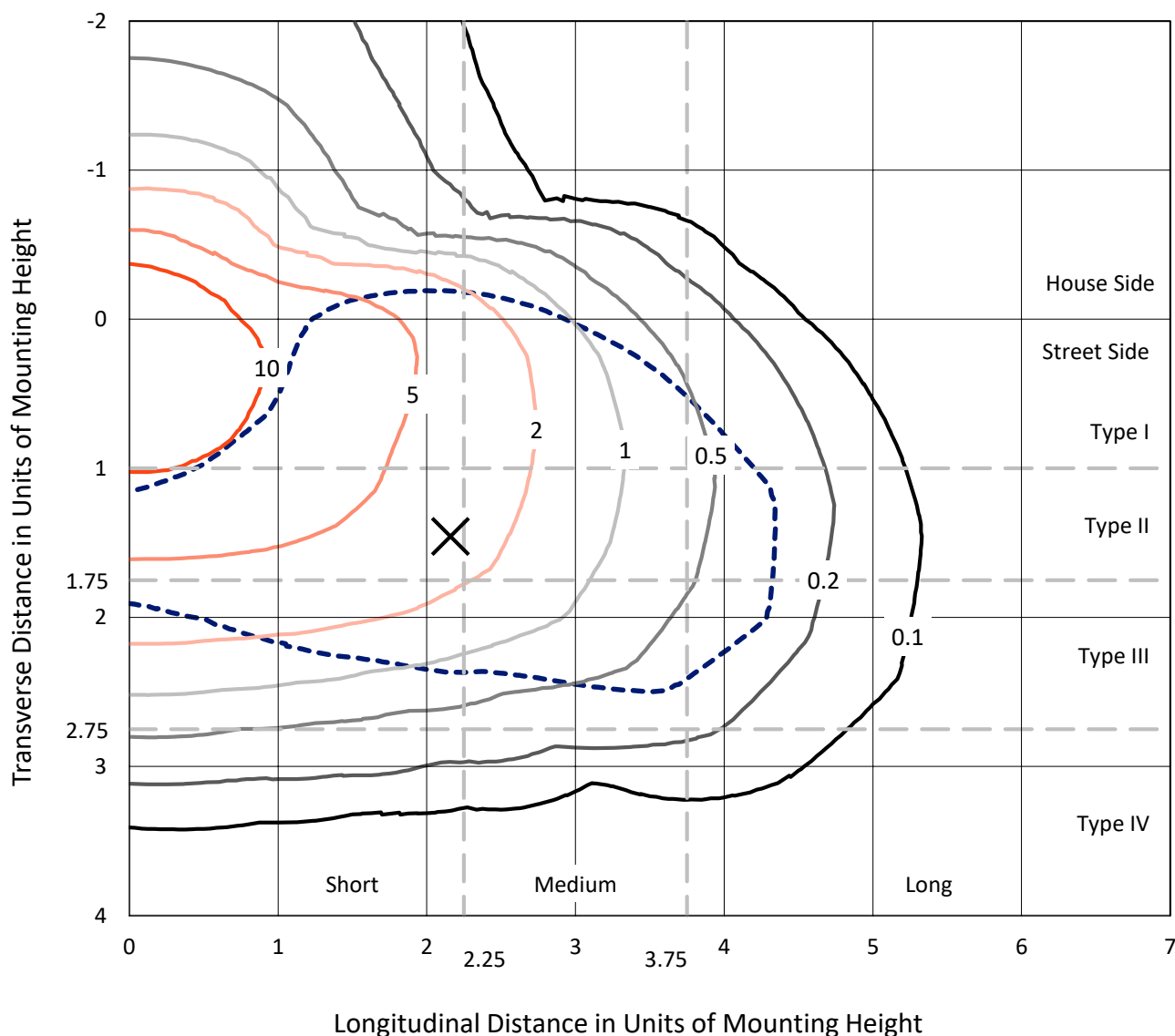
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

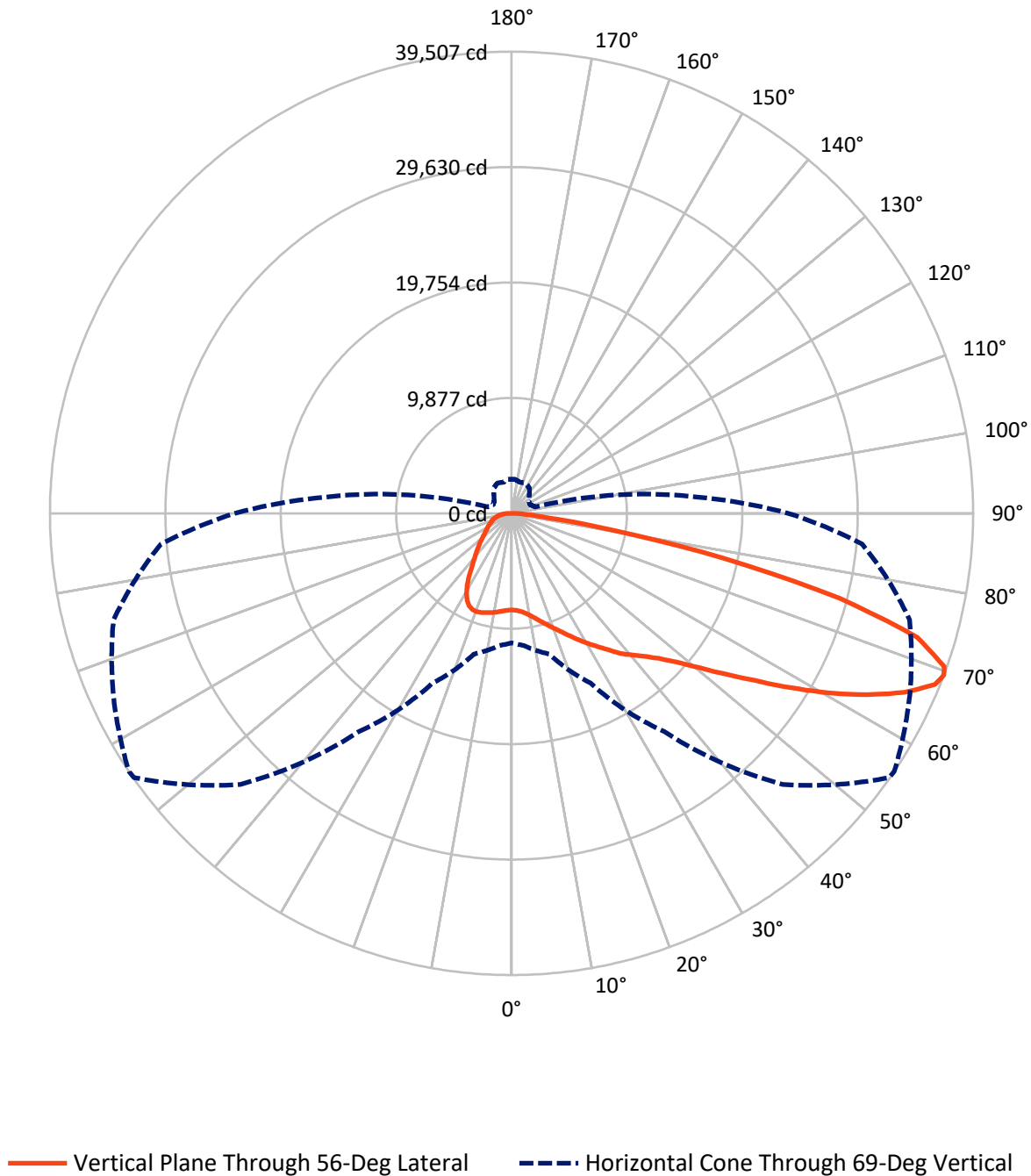
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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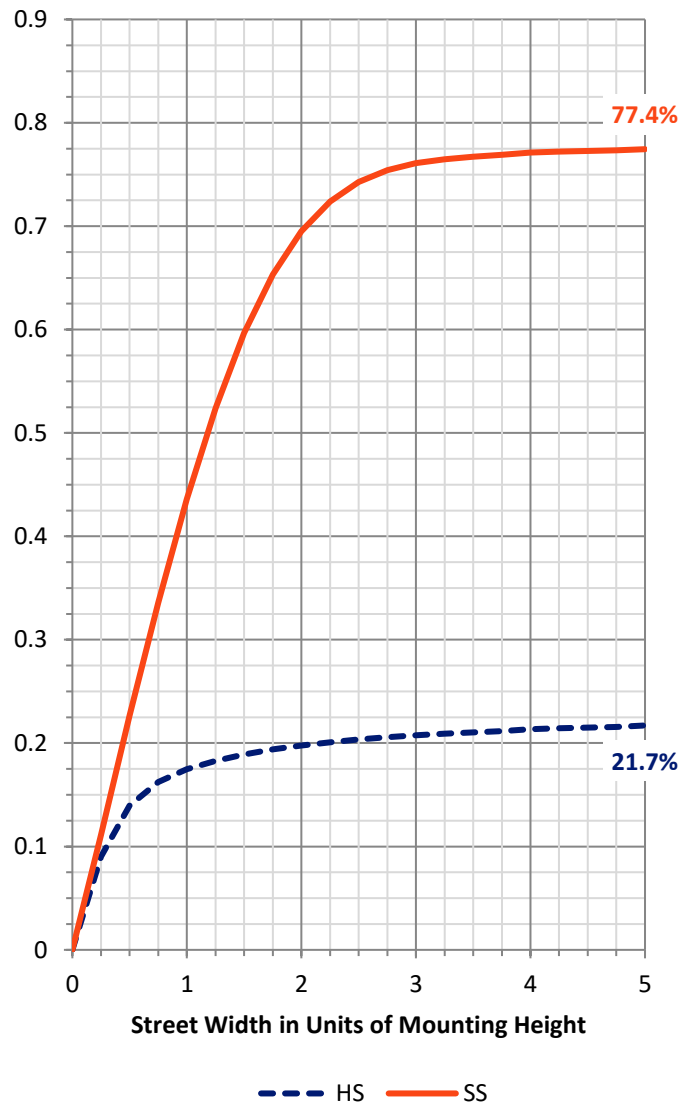
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14084.6  | 0.0    | 14084.6 |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 49160.4  | 0.0    | 49160.4 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 63245.0  | 0.0    | 63245.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 812.1   | 1.3       |
| 10°-20°   | 2611.3  | 4.1       |
| 20°-30°   | 4558.4  | 7.2       |
| 30°-40°   | 6548.0  | 10.4      |
| 40°-50°   | 9062.0  | 14.3      |
| 50°-60°   | 13277.1 | 21.0      |
| 60°-70°   | 16187.3 | 25.6      |
| 70°-80°   | 8949.4  | 14.2      |
| 80°-90°   | 1239.5  | 2.0       |
| 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°    | 63245.0 | 100.0     |
| 0°-180°   | 63245.0 | 100.0     |

**Coefficient of Utilization**



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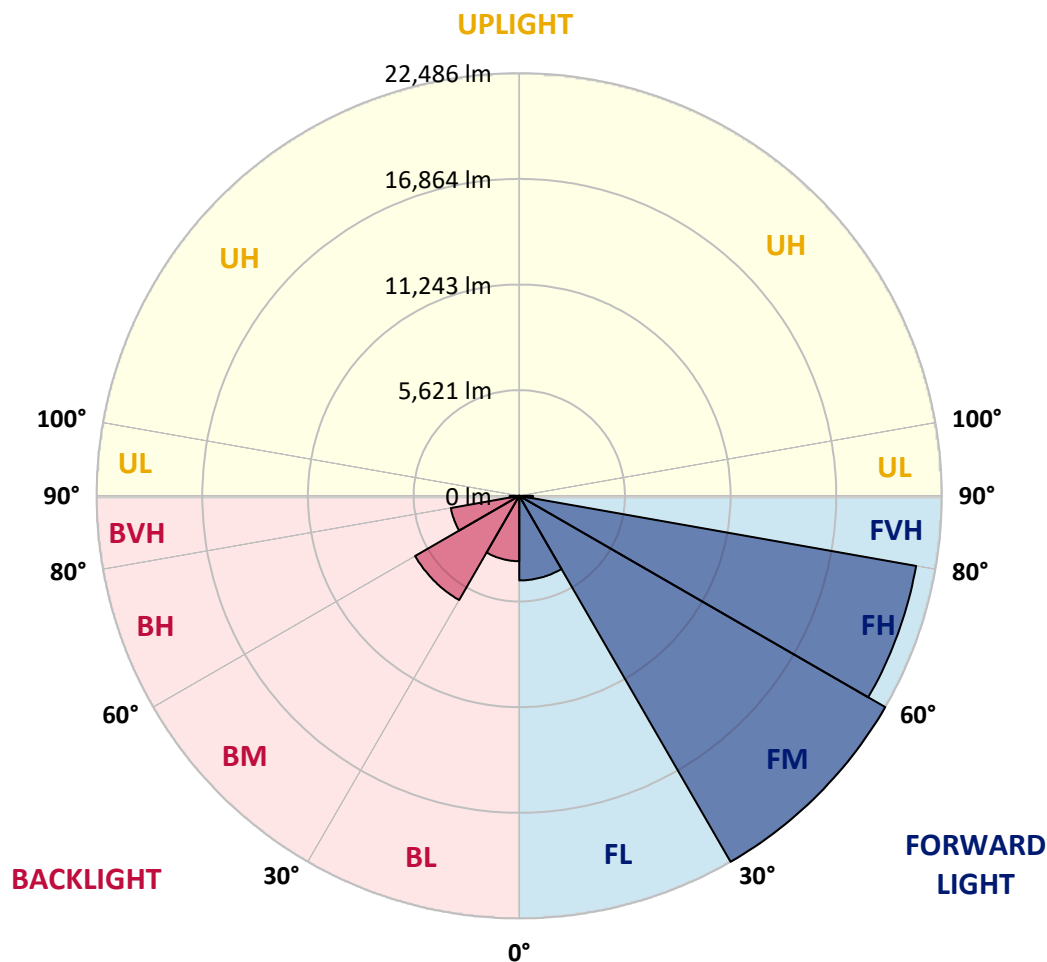
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4501.2  | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 22485.9 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 21443.2 | 33.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 730.1   | 1.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 3480.6  | 5.5       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6401.1  | 10.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3693.4  | 5.8       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 509.4   | 0.8       |                         |      | G4/750  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8268.3  | 8268.3  | 8268.3  | 8268.3  | 8268.3  | 8268.3  | 8268.3  | 8268.3  | 8268.3  | 8268.3  | 8268.3  |
| 2.5°  | 8320.6  | 8329.3  | 8322.8  | 8340.2  | 8320.6  | 8333.7  | 8322.8  | 8322.8  | 8316.3  | 8296.7  | 8274.9  |
| 5°    | 8451.3  | 8468.8  | 8457.9  | 8475.3  | 8451.3  | 8455.7  | 8436.1  | 8436.1  | 8416.5  | 8375.1  | 8331.5  |
| 7.5°  | 8656.1  | 8675.8  | 8667.0  | 8684.5  | 8651.8  | 8651.8  | 8625.6  | 8623.5  | 8584.2  | 8516.7  | 8466.6  |
| 10°   | 8900.2  | 8926.3  | 8917.6  | 8943.7  | 8917.6  | 8926.3  | 8900.2  | 8900.2  | 8847.9  | 8752.0  | 8688.8  |
| 12.5° | 9255.3  | 9288.0  | 9264.0  | 9261.8  | 9250.9  | 9268.4  | 9246.6  | 9242.2  | 9194.3  | 9063.6  | 8976.4  |
| 15°   | 9730.3  | 9765.1  | 9715.0  | 9710.7  | 9649.7  | 9643.1  | 9643.1  | 9636.6  | 9606.1  | 9449.2  | 9305.4  |
| 17.5° | 10277.1 | 10288.0 | 10244.5 | 10174.7 | 10096.3 | 10046.2 | 10039.7 | 10057.1 | 10057.1 | 9874.1  | 9645.3  |
| 20°   | 10813.1 | 10832.7 | 10797.9 | 10719.4 | 10619.2 | 10545.1 | 10492.8 | 10527.7 | 10525.5 | 10307.6 | 9983.0  |
| 22.5° | 11397.0 | 11442.8 | 11390.5 | 11290.2 | 11172.6 | 11089.8 | 10998.3 | 11028.8 | 11031.0 | 10763.0 | 10314.2 |
| 25°   | 12153.0 | 12111.6 | 12079.0 | 11937.3 | 11769.6 | 11684.6 | 11599.6 | 11630.1 | 11621.4 | 11253.2 | 10656.2 |
| 27.5° | 12821.9 | 12830.6 | 12787.0 | 12636.7 | 12442.8 | 12255.4 | 12251.1 | 12270.7 | 12238.0 | 11763.0 | 10978.7 |
| 30°   | 13599.7 | 13604.1 | 13543.1 | 13408.0 | 13196.6 | 12954.8 | 12898.2 | 12930.8 | 12861.1 | 12246.7 | 11318.6 |
| 32.5° | 14373.2 | 14395.0 | 14327.4 | 14164.0 | 13994.1 | 13699.9 | 13586.6 | 13608.4 | 13434.1 | 12741.3 | 11669.4 |
| 35°   | 15050.8 | 15081.3 | 15059.5 | 14950.5 | 14765.3 | 14512.6 | 14377.5 | 14364.5 | 14148.8 | 13347.0 | 12133.4 |
| 37.5° | 15741.4 | 15769.7 | 15745.8 | 15654.3 | 15580.2 | 15312.2 | 15240.3 | 15240.3 | 14865.6 | 13965.7 | 12723.9 |
| 40°   | 16451.7 | 16495.3 | 16466.9 | 16340.6 | 16277.4 | 16155.4 | 15983.3 | 15941.9 | 15536.6 | 14708.7 | 13686.9 |
| 42.5° | 17111.9 | 17168.5 | 17281.8 | 17207.7 | 17079.2 | 17096.6 | 16750.2 | 16728.4 | 16432.1 | 15806.8 | 14896.1 |
| 45°   | 18048.7 | 18131.5 | 18323.2 | 18266.6 | 18240.4 | 18144.6 | 17732.8 | 17713.2 | 17599.9 | 17284.0 | 16397.2 |
| 47.5° | 19070.5 | 19183.8 | 19530.3 | 19541.2 | 19822.2 | 19641.4 | 19081.4 | 19013.9 | 19040.0 | 19053.1 | 18229.5 |
| 50°   | 20011.8 | 20135.9 | 20704.6 | 20972.6 | 21634.9 | 21674.1 | 20778.7 | 20717.7 | 20820.1 | 21120.7 | 20364.7 |
| 52.5° | 20763.4 | 20920.3 | 21630.6 | 22458.5 | 23593.6 | 23916.1 | 22868.1 | 22822.3 | 22898.6 | 23417.1 | 22778.8 |
| 55°   | 21314.6 | 21484.6 | 22258.0 | 23765.7 | 25578.4 | 26147.1 | 25273.4 | 25229.9 | 25277.8 | 25937.9 | 25404.1 |
| 57.5° | 21443.2 | 21484.6 | 22606.6 | 24645.9 | 27253.9 | 28620.0 | 28216.9 | 28129.8 | 27894.5 | 28469.6 | 28301.9 |
| 60°   | 20839.7 | 21005.3 | 22319.0 | 24955.3 | 28550.3 | 31058.0 | 31293.3 | 31184.4 | 30524.2 | 30994.8 | 30859.7 |
| 62.5° | 19615.2 | 19911.5 | 21244.9 | 24484.7 | 29057.9 | 33049.4 | 34310.9 | 34180.1 | 33042.8 | 33347.8 | 32698.6 |
| 65°   | 17615.1 | 17741.5 | 19142.4 | 22861.6 | 28413.0 | 34323.9 | 37001.6 | 36936.2 | 35504.8 | 35027.7 | 33038.5 |
| 67.5° | 14037.6 | 14275.1 | 15464.7 | 19469.3 | 25774.5 | 34173.6 | 39082.3 | 39075.8 | 37112.7 | 35650.8 | 31833.6 |
| 69°   | 11089.8 | 11336.0 | 12468.9 | 16037.7 | 22807.1 | 32798.8 | 39430.9 | 39507.2 | 37565.9 | 35271.7 | 30112.4 |
| 70°   | 8841.3  | 9126.8  | 9904.6  | 13508.2 | 20173.0 | 30986.1 | 39141.1 | 39278.4 | 37478.7 | 34646.4 | 28524.1 |
| 72.5° | 3762.7  | 3993.6  | 4547.0  | 6963.3  | 12294.6 | 23138.3 | 35788.0 | 36306.6 | 35459.1 | 31709.4 | 23574.0 |
| 75°   | 1642.8  | 1714.7  | 1965.2  | 2838.9  | 5457.8  | 12593.1 | 28036.1 | 28994.7 | 30319.4 | 26802.9 | 17560.7 |
| 77.5° | 1202.7  | 1233.2  | 1370.4  | 1666.7  | 2448.9  | 4756.2  | 18029.1 | 18586.9 | 21865.9 | 19504.1 | 10771.7 |
| 80°   | 930.3   | 952.1   | 1058.9  | 1224.5  | 1599.2  | 1923.8  | 8222.6  | 8701.9  | 12294.6 | 10017.9 | 4486.0  |
| 82.5° | 740.8   | 756.0   | 830.1   | 902.0   | 1104.6  | 1165.6  | 2730.0  | 3028.5  | 4538.3  | 2767.0  | 1187.4  |
| 85°   | 688.5   | 705.9   | 732.1   | 658.0   | 708.1   | 684.1   | 1180.9  | 1235.3  | 1370.4  | 1087.2  | 496.8   |
| 87.5° | 311.6   | 368.2   | 725.5   | 512.0   | 376.9   | 300.7   | 483.7   | 505.5   | 568.7   | 570.8   | 220.1   |
| 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°    | 8268.3  | 8268.3  | 8268.3  | 8268.3 | 8268.3 | 8268.3 | 8268.3 | 8268.3 | 8268.3 | 8268.3 | 8268.3 |
| 2.5°  | 8287.9  | 8281.4  | 8292.3  | 8266.2 | 8298.8 | 8296.7 | 8285.8 | 8290.1 | 8311.9 | 8309.7 | 8311.9 |
| 5°    | 8338.1  | 8333.7  | 8346.8  | 8327.2 | 8366.4 | 8379.4 | 8381.6 | 8401.2 | 8425.2 | 8431.7 | 8431.7 |
| 7.5°  | 8464.4  | 8464.4  | 8471.0  | 8444.8 | 8471.0 | 8468.8 | 8457.9 | 8477.5 | 8501.5 | 8503.6 | 8501.5 |
| 10°   | 8682.3  | 8684.5  | 8673.6  | 8606.0 | 8584.2 | 8525.4 | 8471.0 | 8473.1 | 8503.6 | 8527.6 | 8534.1 |
| 12.5° | 8956.8  | 8948.1  | 8900.2  | 8776.0 | 8684.5 | 8564.6 | 8508.0 | 8505.8 | 8536.3 | 8555.9 | 8562.5 |
| 15°   | 9270.6  | 9246.6  | 9122.4  | 8919.8 | 8758.5 | 8640.9 | 8549.4 | 8527.6 | 8510.2 | 8488.4 | 8490.6 |
| 17.5° | 9566.9  | 9512.4  | 9305.4  | 9024.4 | 8854.4 | 8697.5 | 8521.1 | 8379.4 | 8281.4 | 8224.8 | 8207.3 |
| 20°   | 9867.5  | 9760.8  | 9462.3  | 9122.4 | 8906.7 | 8621.3 | 8281.4 | 7993.8 | 7815.2 | 7732.4 | 7717.1 |
| 22.5° | 10142.1 | 9969.9  | 9608.3  | 9224.8 | 8865.3 | 8364.2 | 7830.4 | 7412.1 | 7163.7 | 7052.6 | 7061.3 |
| 25°   | 10410.0 | 10170.4 | 9760.8  | 9296.7 | 8656.1 | 7911.0 | 7202.9 | 6688.7 | 6401.1 | 6277.0 | 6272.6 |
| 27.5° | 10645.3 | 10373.0 | 9926.4  | 9237.9 | 8266.2 | 7266.1 | 6460.0 | 5958.9 | 5719.2 | 5612.4 | 5595.0 |
| 30°   | 10915.5 | 10627.9 | 10146.4 | 9013.5 | 7695.3 | 6521.0 | 5734.5 | 5381.5 | 5211.6 | 5104.8 | 5085.2 |
| 32.5° | 11244.5 | 10974.3 | 10327.2 | 8606.0 | 6965.4 | 5743.2 | 5168.0 | 4921.8 | 4767.1 | 4647.3 | 4625.5 |
| 35°   | 11723.8 | 11431.9 | 10373.0 | 8022.1 | 6163.7 | 5128.8 | 4751.8 | 4499.1 | 4289.9 | 4135.3 | 4120.0 |
| 37.5° | 12325.2 | 12004.9 | 10268.4 | 7266.1 | 5385.9 | 4730.1 | 4405.4 | 4093.9 | 3821.5 | 3603.6 | 3568.8 |
| 40°   | 13192.3 | 12708.6 | 9978.6  | 6394.6 | 4812.8 | 4422.8 | 4067.7 | 3712.6 | 3374.9 | 3120.0 | 3069.8 |
| 42.5° | 14233.7 | 13534.4 | 9534.2  | 5527.5 | 4392.3 | 4111.3 | 3732.2 | 3292.1 | 2969.6 | 2788.8 | 2762.6 |
| 45°   | 15558.4 | 14392.8 | 8917.6  | 4769.3 | 3978.4 | 3799.7 | 3370.5 | 2965.3 | 2764.8 | 2631.9 | 2610.1 |
| 47.5° | 17070.5 | 15355.8 | 8270.5  | 4152.7 | 3627.6 | 3507.8 | 3080.7 | 2819.3 | 2660.2 | 2555.7 | 2536.1 |
| 50°   | 18928.9 | 16443.0 | 7584.2  | 3647.2 | 3274.7 | 3157.0 | 2943.5 | 2738.7 | 2612.3 | 2531.7 | 2512.1 |
| 52.5° | 21024.9 | 17669.6 | 7089.6  | 3248.5 | 2982.7 | 2897.7 | 2871.6 | 2695.1 | 2592.7 | 2531.7 | 2512.1 |
| 55°   | 23282.1 | 18918.0 | 6555.8  | 2913.0 | 2730.0 | 2753.9 | 2823.7 | 2699.5 | 2629.7 | 2555.7 | 2527.3 |
| 57.5° | 25541.4 | 20207.8 | 5961.0  | 2629.7 | 2529.5 | 2647.2 | 2791.0 | 2708.2 | 2649.4 | 2577.5 | 2551.3 |
| 60°   | 27328.0 | 21024.9 | 5039.4  | 2392.3 | 2370.5 | 2529.5 | 2712.5 | 2642.8 | 2566.6 | 2568.7 | 2564.4 |
| 62.5° | 28162.4 | 20981.3 | 4022.0  | 2180.9 | 2211.4 | 2370.5 | 2586.2 | 2540.4 | 2477.2 | 2562.2 | 2568.7 |
| 65°   | 27694.0 | 19935.5 | 3130.9  | 1989.2 | 2041.5 | 2204.9 | 2455.4 | 2490.3 | 2512.1 | 2675.5 | 2697.3 |
| 67.5° | 25728.8 | 17900.6 | 2424.9  | 1821.4 | 1886.8 | 2091.6 | 2468.5 | 2712.5 | 2740.9 | 2913.0 | 2910.8 |
| 69°   | 23696.0 | 15992.0 | 2106.8  | 1734.3 | 1810.5 | 2119.9 | 2638.5 | 2854.2 | 2747.4 | 2930.4 | 2904.3 |
| 70°   | 21992.2 | 14482.1 | 1936.9  | 1675.5 | 1775.7 | 2170.0 | 2751.8 | 2852.0 | 2714.7 | 2871.6 | 2828.0 |
| 72.5° | 16937.6 | 10418.8 | 1642.8  | 1566.5 | 1658.0 | 2076.3 | 2784.4 | 2788.8 | 2638.5 | 2669.0 | 2594.9 |
| 75°   | 11617.1 | 6584.2  | 1433.6  | 1418.4 | 1479.4 | 1871.5 | 2679.9 | 2664.6 | 2440.2 | 2396.6 | 2335.6 |
| 77.5° | 6405.5  | 3344.4  | 1217.9  | 1276.7 | 1318.1 | 1658.0 | 2435.8 | 2414.0 | 2228.9 | 2137.3 | 2115.6 |
| 80°   | 2470.7  | 1464.1  | 1028.4  | 1135.1 | 1161.3 | 1435.8 | 2135.2 | 2115.6 | 1960.9 | 1843.2 | 1810.5 |
| 82.5° | 932.5   | 766.9   | 849.7   | 982.6  | 973.9  | 1185.2 | 1808.4 | 1797.5 | 1647.1 | 1475.0 | 1422.7 |
| 85°   | 431.4   | 459.7   | 673.2   | 810.5  | 747.3  | 878.0  | 1446.7 | 1466.3 | 1283.3 | 1078.5 | 1078.5 |
| 87.5° | 183.0   | 257.1   | 477.1   | 612.2  | 503.3  | 592.6  | 1061.0 | 1013.1 | 930.3  | 644.9  | 605.7  |
| 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)