

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: P318501

Luminaire Tested: **GAN-SA7D-760-U-T3**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P318501  
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-SA7D-760-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 54893 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

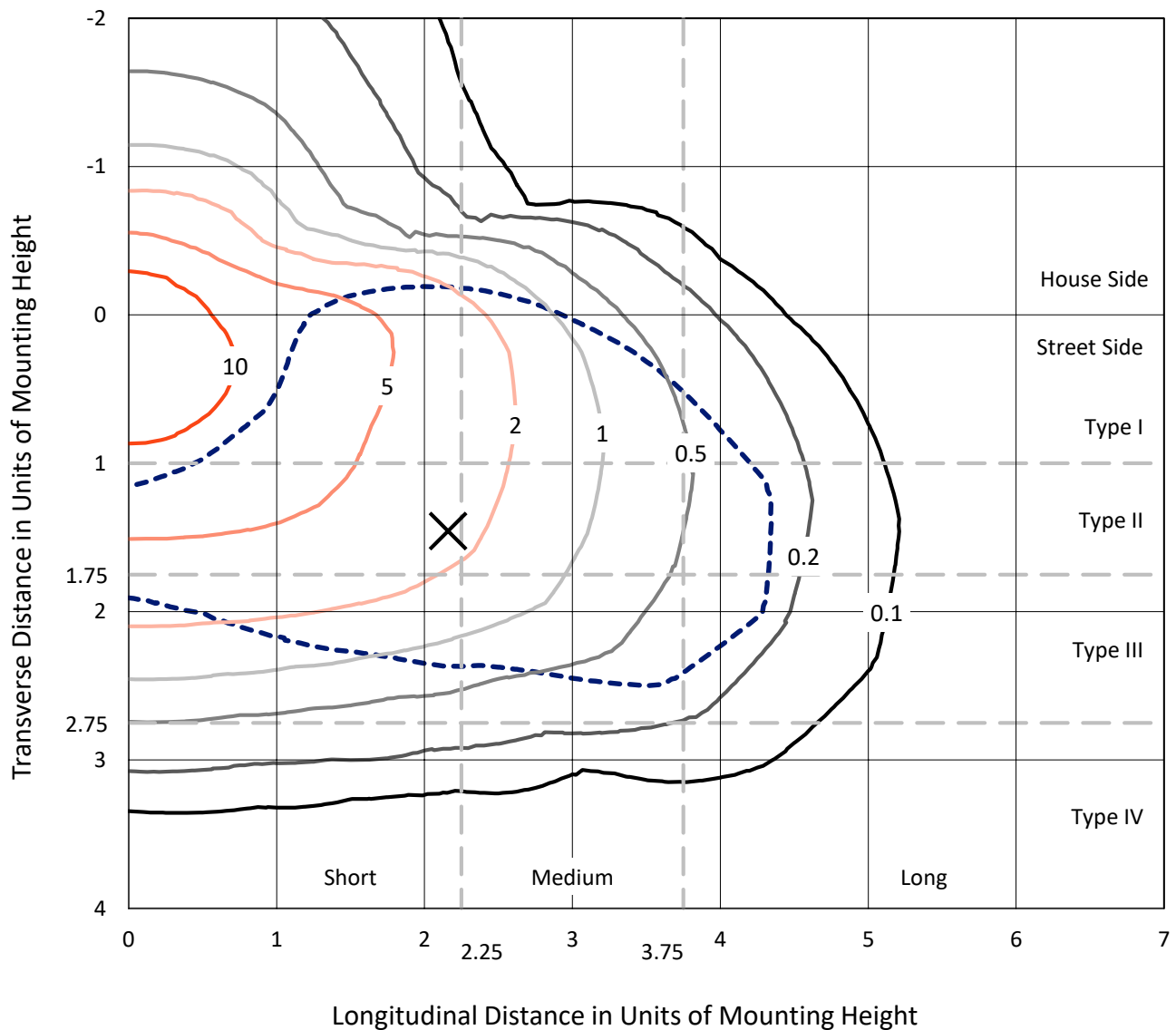
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

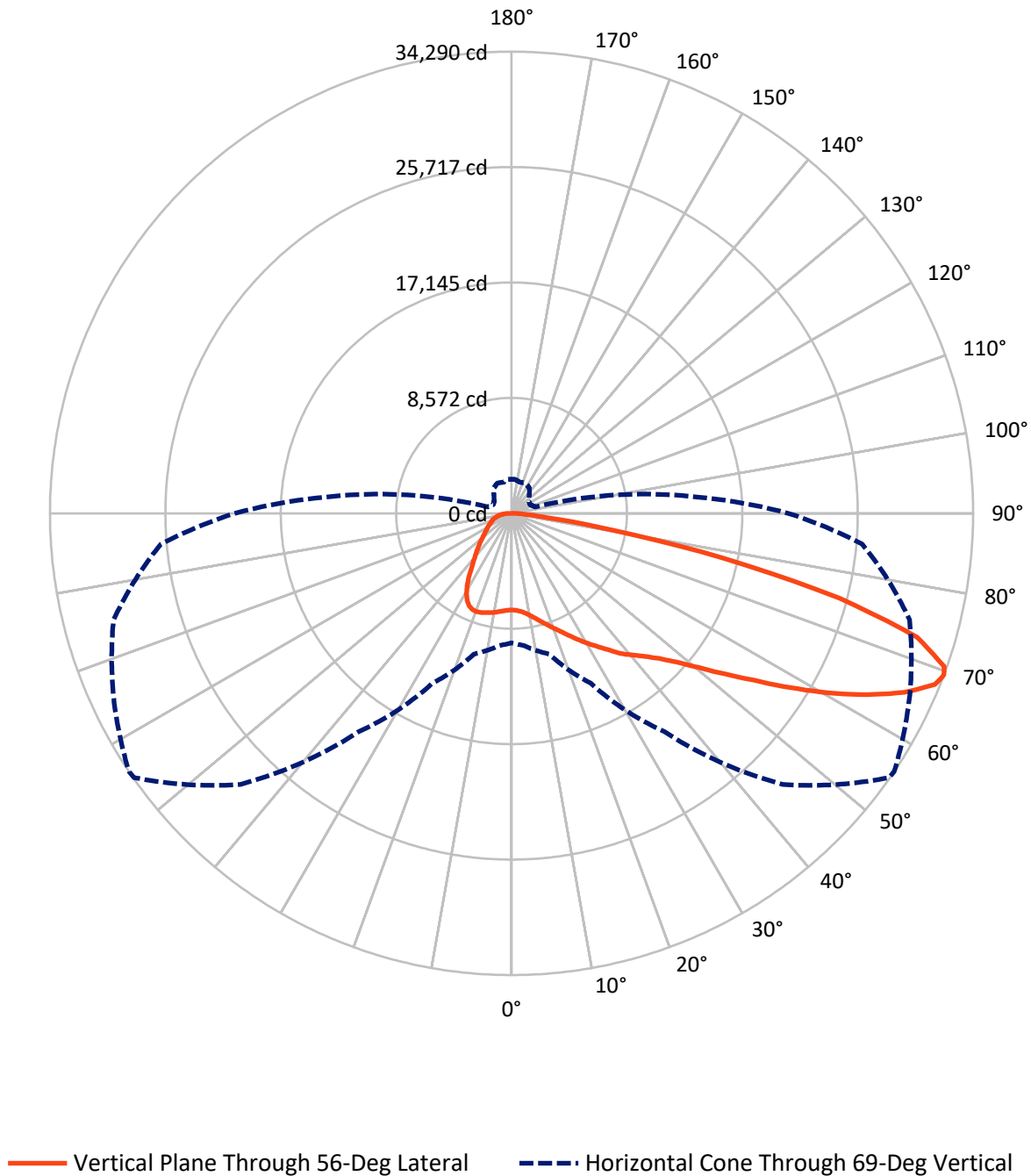
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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    | 12224.6  | 0.0    | 12224.6 |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 42668.4  | 0.0    | 42668.4 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 54893.0  | 0.0    | 54893.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 704.8   | 1.3       |
| 10°-20°   | 2266.5  | 4.1       |
| 20°-30°   | 3956.4  | 7.2       |
| 30°-40°   | 5683.2  | 10.4      |
| 40°-50°   | 7865.3  | 14.3      |
| 50°-60°   | 11523.8 | 21.0      |
| 60°-70°   | 14049.6 | 25.6      |
| 70°-80°   | 7767.5  | 14.2      |
| 80°-90°   | 1075.8  | 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°    | 54893.0 | 100.0     |
| 0°-180°   | 54893.0 | 100.0     |

**Coefficient of Utilization**



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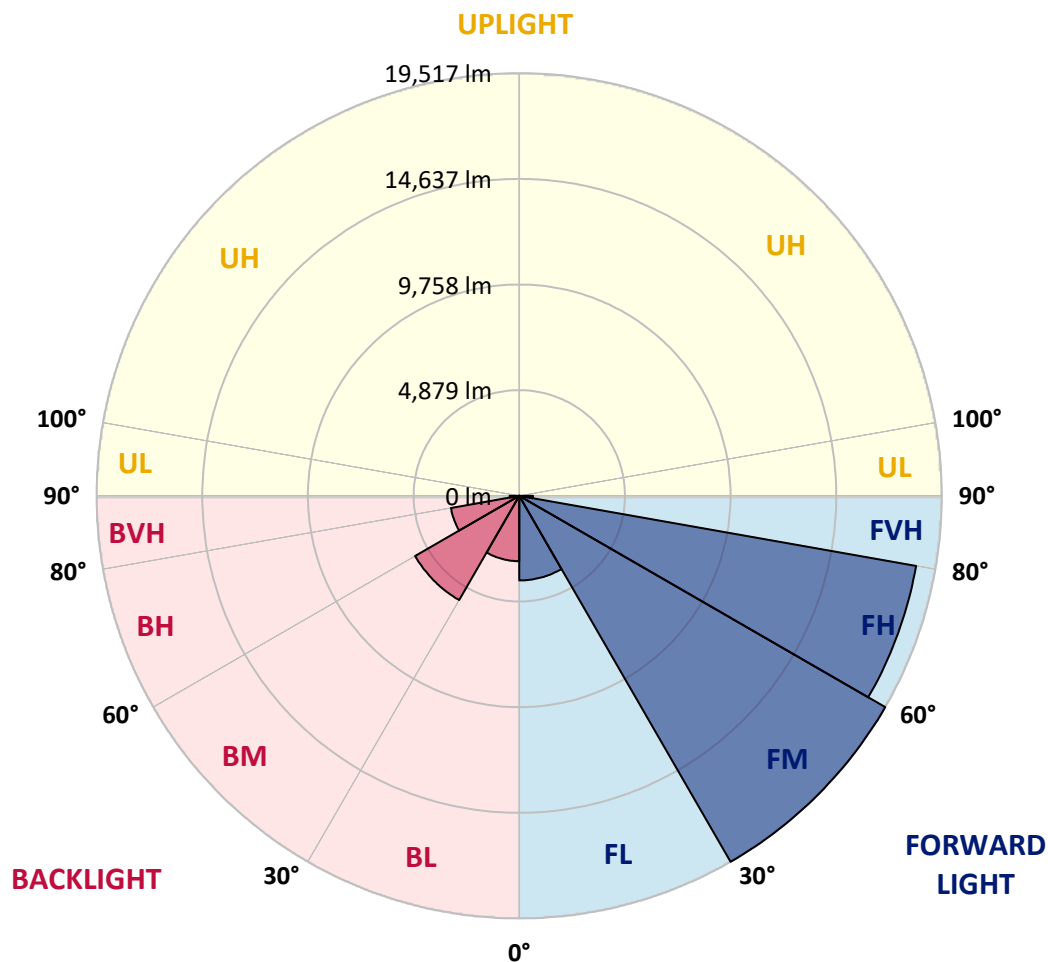
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3906.8  | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 19516.5 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 18611.5 | 33.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 633.7   | 1.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 3021.0  | 5.5       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5555.8  | 10.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3205.7  | 5.8       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 442.1   | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  |
| 2.5°  | 7221.8  | 7229.4  | 7223.7  | 7238.8  | 7221.8  | 7233.2  | 7223.7  | 7223.7  | 7218.0  | 7201.0  | 7182.1  |
| 5°    | 7335.3  | 7350.4  | 7341.0  | 7356.1  | 7335.3  | 7339.1  | 7322.0  | 7322.0  | 7305.0  | 7269.1  | 7231.3  |
| 7.5°  | 7513.0  | 7530.1  | 7522.5  | 7537.6  | 7509.3  | 7509.3  | 7486.6  | 7484.7  | 7450.6  | 7392.0  | 7348.5  |
| 10°   | 7724.8  | 7747.5  | 7740.0  | 7762.7  | 7740.0  | 7747.5  | 7724.8  | 7724.8  | 7679.4  | 7596.2  | 7541.4  |
| 12.5° | 8033.1  | 8061.4  | 8040.6  | 8038.7  | 8029.3  | 8044.4  | 8025.5  | 8021.7  | 7980.1  | 7866.7  | 7791.0  |
| 15°   | 8445.3  | 8475.6  | 8432.1  | 8428.3  | 8375.3  | 8369.7  | 8369.7  | 8364.0  | 8337.5  | 8201.4  | 8076.6  |
| 17.5° | 8920.0  | 8929.4  | 8891.6  | 8831.1  | 8763.0  | 8719.5  | 8713.8  | 8729.0  | 8729.0  | 8570.1  | 8371.6  |
| 20°   | 9385.1  | 9402.2  | 9371.9  | 9303.8  | 9216.8  | 9152.6  | 9107.2  | 9137.4  | 9135.5  | 8946.4  | 8664.7  |
| 22.5° | 9891.9  | 9931.7  | 9886.3  | 9799.3  | 9697.2  | 9625.3  | 9545.9  | 9572.4  | 9574.3  | 9341.7  | 8952.1  |
| 25°   | 10548.1 | 10512.2 | 10483.8 | 10360.9 | 10215.3 | 10141.6 | 10067.8 | 10094.3 | 10086.7 | 9767.1  | 9249.0  |
| 27.5° | 11128.7 | 11136.2 | 11098.4 | 10967.9 | 10799.6 | 10637.0 | 10633.2 | 10650.2 | 10621.9 | 10209.6 | 9528.9  |
| 30°   | 11803.8 | 11807.5 | 11754.6 | 11637.4 | 11453.9 | 11244.0 | 11194.9 | 11223.2 | 11162.7 | 10629.4 | 9823.9  |
| 32.5° | 12475.1 | 12494.0 | 12435.4 | 12293.5 | 12146.0 | 11890.8 | 11792.4 | 11811.3 | 11660.0 | 11058.7 | 10128.3 |
| 35°   | 13063.2 | 13089.7 | 13070.8 | 12976.2 | 12815.5 | 12596.1 | 12478.9 | 12467.5 | 12280.3 | 11584.4 | 10531.1 |
| 37.5° | 13662.6 | 13687.2 | 13666.4 | 13587.0 | 13522.7 | 13290.1 | 13227.7 | 13227.7 | 12902.5 | 12121.5 | 11043.6 |
| 40°   | 14279.1 | 14316.9 | 14292.4 | 14182.7 | 14127.8 | 14021.9 | 13872.5 | 13836.6 | 13484.9 | 12766.3 | 11879.4 |
| 42.5° | 14852.1 | 14901.3 | 14999.6 | 14935.3 | 14823.7 | 14838.9 | 14538.2 | 14519.3 | 14262.1 | 13719.4 | 12928.9 |
| 45°   | 15665.2 | 15737.1 | 15903.5 | 15854.3 | 15831.6 | 15748.4 | 15391.0 | 15374.0 | 15275.7 | 15001.5 | 14231.8 |
| 47.5° | 16552.1 | 16650.5 | 16951.1 | 16960.6 | 17204.5 | 17047.6 | 16561.6 | 16503.0 | 16525.7 | 16537.0 | 15822.2 |
| 50°   | 17369.0 | 17476.8 | 17970.4 | 18203.0 | 18777.9 | 18811.9 | 18034.7 | 17981.7 | 18070.6 | 18331.6 | 17675.4 |
| 52.5° | 18021.5 | 18157.6 | 18774.1 | 19492.7 | 20477.9 | 20757.8 | 19848.2 | 19808.5 | 19874.7 | 20324.7 | 19770.6 |
| 55°   | 18499.9 | 18647.4 | 19318.7 | 20627.3 | 22200.6 | 22694.2 | 21935.9 | 21898.0 | 21939.7 | 22512.6 | 22049.3 |
| 57.5° | 18611.5 | 18647.4 | 19621.3 | 21391.3 | 23654.8 | 24840.5 | 24490.6 | 24415.0 | 24210.8 | 24710.0 | 24564.4 |
| 60°   | 18087.6 | 18231.4 | 19371.6 | 21659.8 | 24780.0 | 26956.5 | 27160.8 | 27066.2 | 26493.2 | 26901.7 | 26784.5 |
| 62.5° | 17024.9 | 17282.1 | 18439.4 | 21251.3 | 25220.6 | 28684.9 | 29779.8 | 29666.4 | 28679.3 | 28944.0 | 28380.5 |
| 65°   | 15288.9 | 15398.6 | 16614.5 | 19842.5 | 24660.8 | 29791.2 | 32115.2 | 32058.5 | 30816.1 | 30402.0 | 28675.5 |
| 67.5° | 12183.9 | 12390.0 | 13422.5 | 16898.2 | 22370.8 | 29660.7 | 33921.2 | 33915.5 | 32211.7 | 30942.8 | 27629.7 |
| 69°   | 9625.3  | 9839.0  | 10822.3 | 13919.8 | 19795.2 | 28467.5 | 34223.7 | 34289.9 | 32605.0 | 30613.8 | 26135.8 |
| 70°   | 7673.8  | 7921.5  | 8596.6  | 11724.3 | 17509.0 | 26894.1 | 33972.2 | 34091.4 | 32529.4 | 30071.1 | 24757.3 |
| 72.5° | 3265.8  | 3466.2  | 3946.6  | 6043.7  | 10671.0 | 20082.7 | 31061.9 | 31512.0 | 30776.4 | 27522.0 | 20460.9 |
| 75°   | 1425.8  | 1488.2  | 1705.7  | 2464.0  | 4737.0  | 10930.1 | 24333.7 | 25165.7 | 26315.5 | 23263.4 | 15241.6 |
| 77.5° | 1043.8  | 1070.3  | 1189.5  | 1446.6  | 2125.5  | 4128.1  | 15648.2 | 16132.3 | 18978.3 | 16928.4 | 9349.2  |
| 80°   | 807.5   | 826.4   | 919.0   | 1062.8  | 1388.0  | 1669.8  | 7136.7  | 7552.7  | 10671.0 | 8694.9  | 3893.6  |
| 82.5° | 642.9   | 656.2   | 720.5   | 782.9   | 958.7   | 1011.7  | 2369.5  | 2628.5  | 3939.0  | 2401.6  | 1030.6  |
| 85°   | 597.6   | 612.7   | 635.4   | 571.1   | 614.6   | 593.8   | 1024.9  | 1072.2  | 1189.5  | 943.6   | 431.2   |
| 87.5° | 270.4   | 319.6   | 629.7   | 444.4   | 327.1   | 261.0   | 419.8   | 438.7   | 493.6   | 495.4   | 191.0   |
| 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°    | 7176.4  | 7176.4  | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 |
| 2.5°  | 7193.5  | 7187.8  | 7197.2 | 7174.5 | 7202.9 | 7201.0 | 7191.6 | 7195.3 | 7214.3 | 7212.4 | 7214.3 |
| 5°    | 7236.9  | 7233.2  | 7244.5 | 7227.5 | 7261.5 | 7272.9 | 7274.8 | 7291.8 | 7312.6 | 7318.3 | 7318.3 |
| 7.5°  | 7346.6  | 7346.6  | 7352.3 | 7329.6 | 7352.3 | 7350.4 | 7341.0 | 7358.0 | 7378.8 | 7380.7 | 7378.8 |
| 10°   | 7535.7  | 7537.6  | 7528.2 | 7469.5 | 7450.6 | 7399.6 | 7352.3 | 7354.2 | 7380.7 | 7401.5 | 7407.1 |
| 12.5° | 7774.0  | 7766.4  | 7724.8 | 7617.0 | 7537.6 | 7433.6 | 7384.4 | 7382.6 | 7409.0 | 7426.0 | 7431.7 |
| 15°   | 8046.3  | 8025.5  | 7917.7 | 7741.8 | 7601.9 | 7499.8 | 7420.4 | 7401.5 | 7386.3 | 7367.4 | 7369.3 |
| 17.5° | 8303.5  | 8256.2  | 8076.6 | 7832.6 | 7685.1 | 7549.0 | 7395.8 | 7272.9 | 7187.8 | 7138.6 | 7123.5 |
| 20°   | 8564.4  | 8471.8  | 8212.7 | 7917.7 | 7730.5 | 7482.8 | 7187.8 | 6938.2 | 6783.1 | 6711.2 | 6698.0 |
| 22.5° | 8802.7  | 8653.3  | 8339.4 | 8006.6 | 7694.6 | 7259.6 | 6796.3 | 6433.3 | 6217.7 | 6121.2 | 6128.8 |
| 25°   | 9035.3  | 8827.3  | 8471.8 | 8069.0 | 7513.0 | 6866.3 | 6251.7 | 5805.4 | 5555.8 | 5448.0 | 5444.3 |
| 27.5° | 9239.5  | 9003.2  | 8615.5 | 8017.9 | 7174.5 | 6306.6 | 5606.9 | 5171.9 | 4963.9 | 4871.3 | 4856.1 |
| 30°   | 9474.0  | 9224.4  | 8806.5 | 7823.2 | 6679.1 | 5659.8 | 4977.2 | 4670.8 | 4523.3 | 4430.7 | 4413.6 |
| 32.5° | 9759.6  | 9525.1  | 8963.5 | 7469.5 | 6045.6 | 4984.7 | 4485.5 | 4271.8 | 4137.6 | 4033.6 | 4014.6 |
| 35°   | 10175.6 | 9922.2  | 9003.2 | 6962.7 | 5349.7 | 4451.5 | 4124.3 | 3905.0 | 3723.4 | 3589.2 | 3575.9 |
| 37.5° | 10697.5 | 10419.5 | 8912.4 | 6306.6 | 4674.6 | 4105.4 | 3823.6 | 3553.2 | 3316.9 | 3127.8 | 3097.5 |
| 40°   | 11450.1 | 11030.3 | 8660.9 | 5550.2 | 4177.3 | 3838.8 | 3530.5 | 3222.3 | 2929.2 | 2707.9 | 2664.5 |
| 42.5° | 12354.1 | 11747.0 | 8275.1 | 4797.5 | 3812.3 | 3568.4 | 3239.3 | 2857.3 | 2577.5 | 2420.5 | 2397.8 |
| 45°   | 13503.8 | 12492.1 | 7740.0 | 4139.5 | 3453.0 | 3297.9 | 2925.4 | 2573.7 | 2399.7 | 2284.4 | 2265.4 |
| 47.5° | 14816.2 | 13327.9 | 7178.3 | 3604.3 | 3148.6 | 3044.5 | 2673.9 | 2447.0 | 2308.9 | 2218.2 | 2201.2 |
| 50°   | 16429.2 | 14271.6 | 6582.7 | 3165.6 | 2842.2 | 2740.1 | 2554.8 | 2377.0 | 2267.3 | 2197.4 | 2180.3 |
| 52.5° | 18248.4 | 15336.2 | 6153.4 | 2819.5 | 2588.8 | 2515.1 | 2492.4 | 2339.2 | 2250.3 | 2197.4 | 2180.3 |
| 55°   | 20207.5 | 16419.8 | 5690.1 | 2528.3 | 2369.5 | 2390.3 | 2450.8 | 2343.0 | 2282.5 | 2218.2 | 2193.6 |
| 57.5° | 22168.5 | 17539.2 | 5173.8 | 2282.5 | 2195.5 | 2297.6 | 2422.4 | 2350.5 | 2299.5 | 2237.1 | 2214.4 |
| 60°   | 23719.1 | 18248.4 | 4373.9 | 2076.3 | 2057.4 | 2195.5 | 2354.3 | 2293.8 | 2227.6 | 2229.5 | 2225.7 |
| 62.5° | 24443.4 | 18210.6 | 3490.8 | 1892.9 | 1919.4 | 2057.4 | 2244.6 | 2204.9 | 2150.1 | 2223.8 | 2229.5 |
| 65°   | 24036.8 | 17302.9 | 2717.4 | 1726.5 | 1771.9 | 1913.7 | 2131.2 | 2161.4 | 2180.3 | 2322.2 | 2341.1 |
| 67.5° | 22331.1 | 15536.6 | 2104.7 | 1580.9 | 1637.6 | 1815.4 | 2142.5 | 2354.3 | 2378.9 | 2528.3 | 2526.4 |
| 69°   | 20566.8 | 13880.1 | 1828.6 | 1505.3 | 1571.4 | 1840.0 | 2290.0 | 2477.2 | 2384.6 | 2543.4 | 2520.7 |
| 70°   | 19088.0 | 12569.6 | 1681.1 | 1454.2 | 1541.2 | 1883.5 | 2388.4 | 2475.3 | 2356.2 | 2492.4 | 2454.5 |
| 72.5° | 14700.8 | 9042.9  | 1425.8 | 1359.6 | 1439.1 | 1802.1 | 2416.7 | 2420.5 | 2290.0 | 2316.5 | 2252.2 |
| 75°   | 10082.9 | 5714.7  | 1244.3 | 1231.1 | 1284.0 | 1624.4 | 2326.0 | 2312.7 | 2117.9 | 2080.1 | 2027.2 |
| 77.5° | 5559.6  | 2902.7  | 1057.1 | 1108.1 | 1144.1 | 1439.1 | 2114.2 | 2095.3 | 1934.5 | 1855.1 | 1836.2 |
| 80°   | 2144.4  | 1270.8  | 892.6  | 985.2  | 1007.9 | 1246.2 | 1853.2 | 1836.2 | 1701.9 | 1599.8 | 1571.4 |
| 82.5° | 809.4   | 665.6   | 737.5  | 852.9  | 845.3  | 1028.7 | 1569.5 | 1560.1 | 1429.6 | 1280.2 | 1234.8 |
| 85°   | 374.4   | 399.0   | 584.3  | 703.5  | 648.6  | 762.1  | 1255.6 | 1272.7 | 1113.8 | 936.1  | 936.1  |
| 87.5° | 158.8   | 223.1   | 414.1  | 531.4  | 436.8  | 514.4  | 920.9  | 879.3  | 807.5  | 559.7  | 525.7  |
| 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)