

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: P318102

Luminaire Tested: **GAN-SA8D-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61024 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

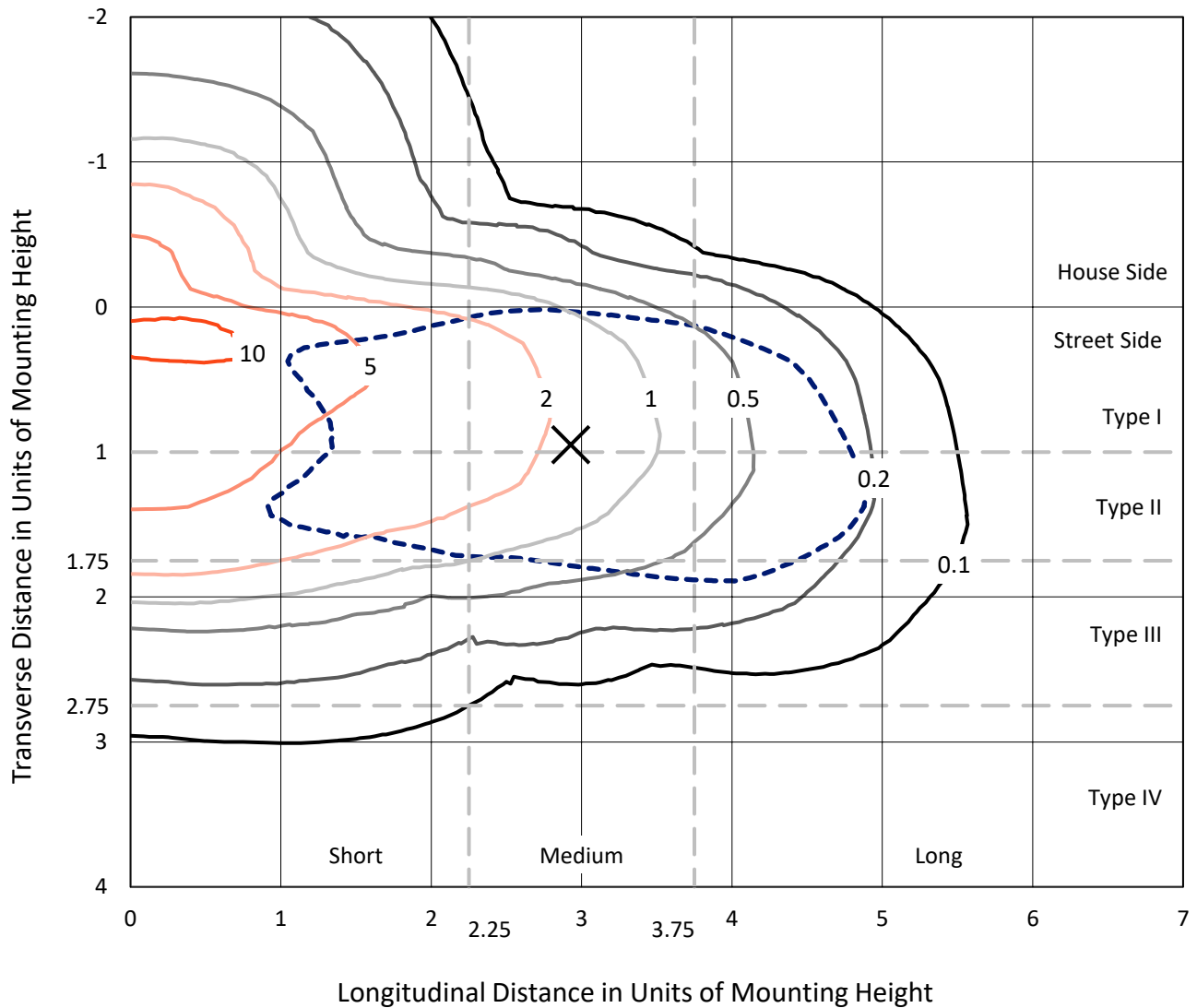
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

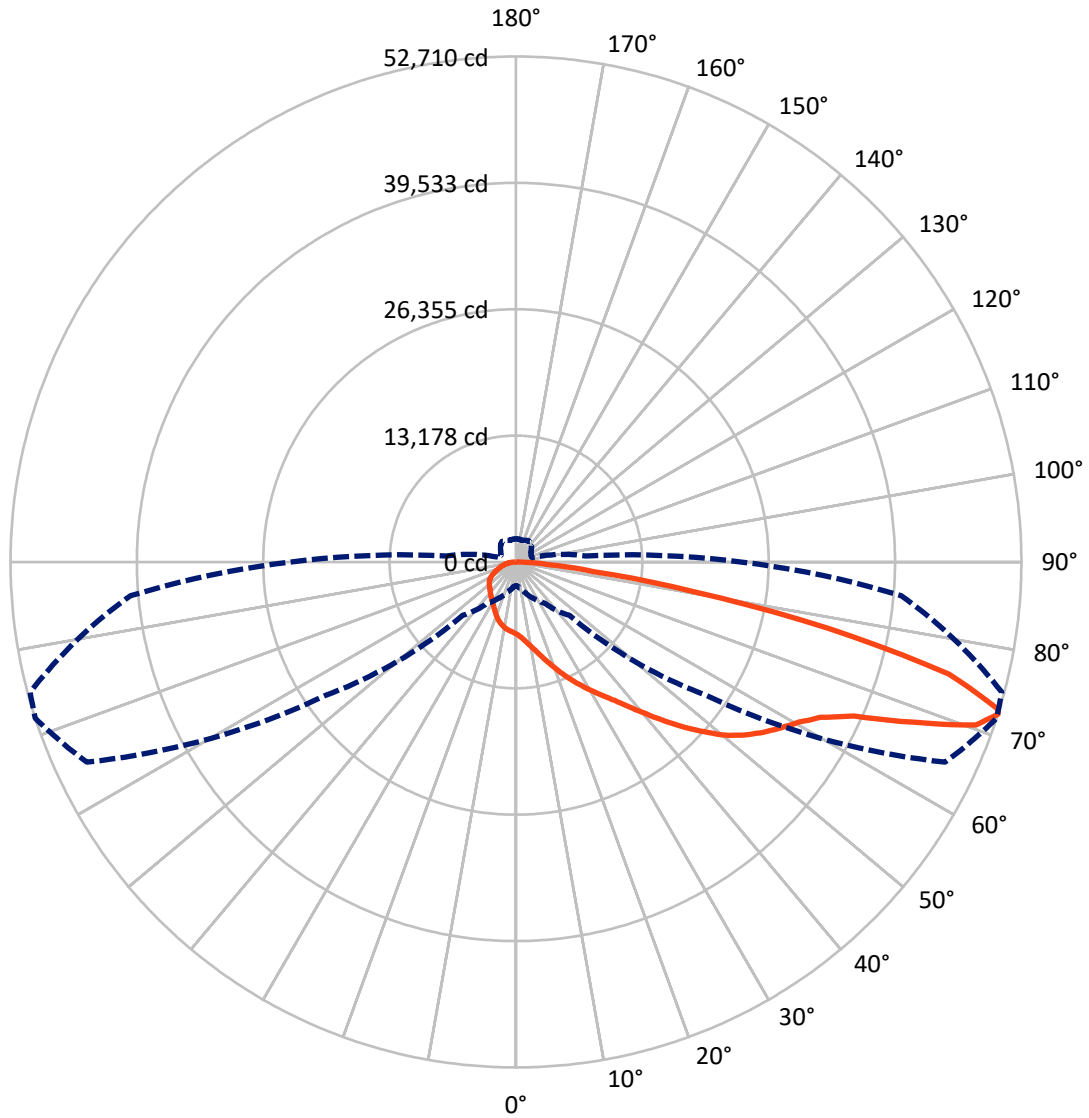
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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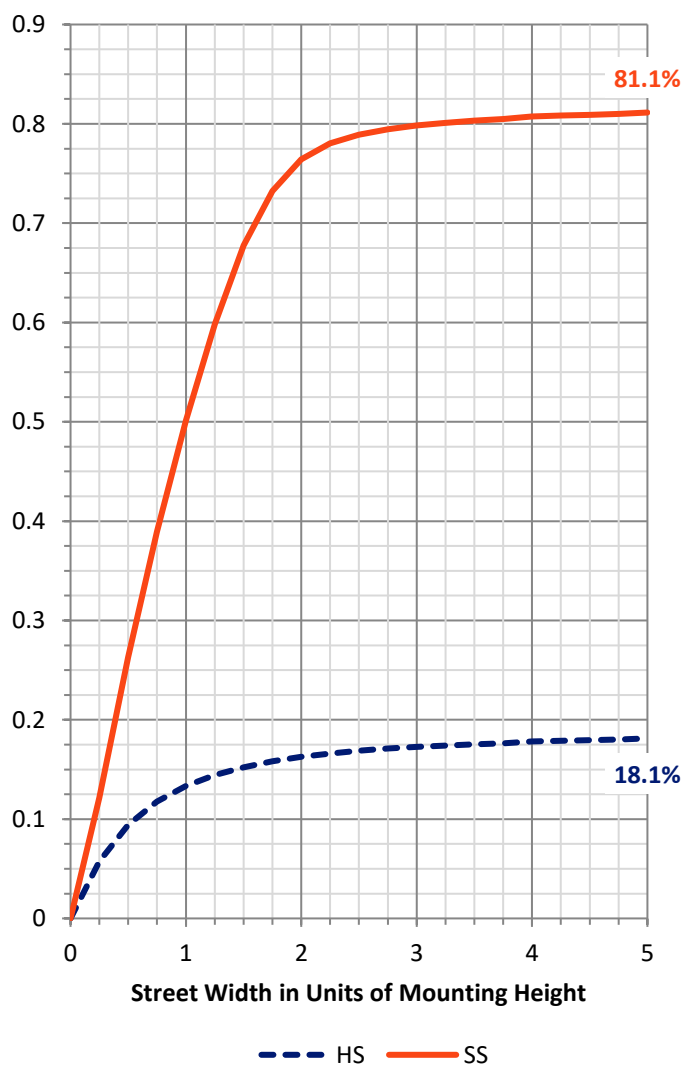
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11320.4  | 0.0    | 11320.4 |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 49703.6  | 0.0    | 49703.6 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 61024.0  | 0.0    | 61024.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 752.3   | 1.2       |
| 10°-20°   | 2431.0  | 4.0       |
| 20°-30°   | 4259.9  | 7.0       |
| 30°-40°   | 6316.1  | 10.4      |
| 40°-50°   | 9237.7  | 15.1      |
| 50°-60°   | 12711.0 | 20.8      |
| 60°-70°   | 14151.2 | 23.2      |
| 70°-80°   | 9588.8  | 15.7      |
| 80°-90°   | 1576.0  | 2.6       |
| 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°    | 61024.0 | 100.0     |
| 0°-180°   | 61024.0 | 100.0     |

**Coefficient of Utilization**

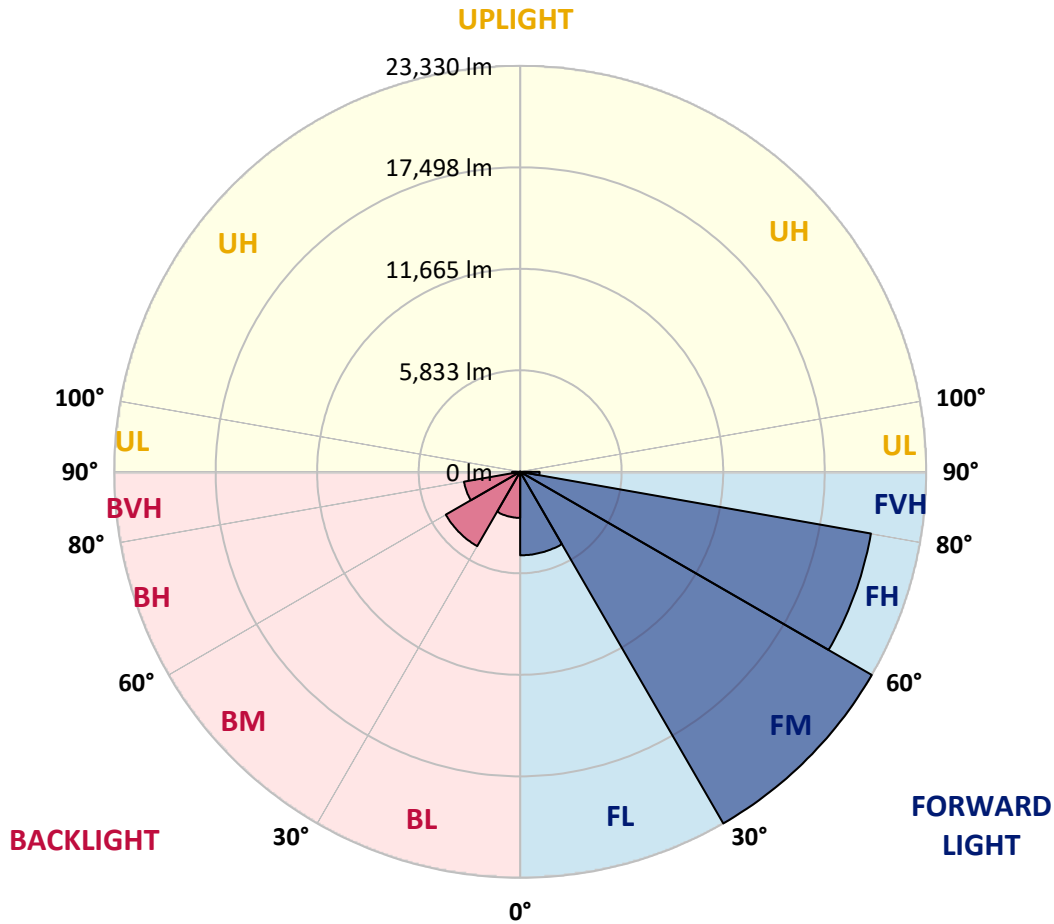


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4796.8  | 7.9       |                         |      |         |
| FM (30°-60°)   | 23330.2 | 38.2      |                         |      |         |
| FH (60°-80°)   | 20464.9 | 33.5      |                         |      | G5      |
| FVH (80°-90°)  | 1111.7  | 1.8       |                         |      | G5      |
| BL (0°-30°)    | 2646.3  | 4.3       | B4/5000                 |      |         |
| BM (30°-60°)   | 4934.6  | 8.1       | B3/5000                 |      |         |
| BH (60°-80°)   | 3275.1  | 5.4       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 464.3   | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7507.5  | 7507.5  | 7507.5  | 7507.5  | 7507.5  | 7507.5  | 7507.5  | 7507.5  | 7507.5  | 7507.5  | 7507.5  |
| 2.5°  | 8293.4  | 8280.8  | 8236.7  | 8236.7  | 8152.6  | 8081.2  | 7946.7  | 7856.3  | 7749.2  | 7711.4  | 7585.3  |
| 5°    | 9096.0  | 9100.2  | 9045.6  | 9007.8  | 8883.8  | 8732.5  | 8503.5  | 8295.5  | 8087.5  | 8003.4  | 7745.0  |
| 7.5°  | 9770.5  | 9762.1  | 9747.4  | 9715.9  | 9600.3  | 9444.8  | 9136.0  | 8827.1  | 8520.3  | 8394.2  | 7948.8  |
| 10°   | 10203.4 | 10222.3 | 10234.9 | 10249.6 | 10201.3 | 10089.9 | 9797.8  | 9421.7  | 9020.4  | 8848.1  | 8192.5  |
| 12.5° | 10421.9 | 10455.5 | 10514.3 | 10615.2 | 10695.0 | 10682.4 | 10470.2 | 10071.0 | 9594.0  | 9377.6  | 8497.2  |
| 15°   | 10550.1 | 10594.2 | 10686.6 | 10867.3 | 11092.2 | 11220.3 | 11163.6 | 10802.2 | 10270.6 | 10003.8 | 8869.1  |
| 17.5° | 10629.9 | 10665.6 | 10808.5 | 11050.1 | 11384.2 | 11724.6 | 11873.8 | 11571.2 | 11035.4 | 10730.8 | 9295.7  |
| 20°   | 10684.5 | 10711.9 | 10890.5 | 11174.1 | 11607.0 | 12149.1 | 12565.1 | 12489.5 | 11878.0 | 11483.0 | 9741.1  |
| 22.5° | 10806.4 | 10829.5 | 10999.7 | 11285.5 | 11764.6 | 12464.2 | 13231.2 | 13344.6 | 12766.8 | 12319.3 | 10218.1 |
| 25°   | 11146.8 | 11146.8 | 11289.7 | 11489.3 | 11938.9 | 12737.4 | 13794.3 | 14296.5 | 13674.5 | 13153.4 | 10659.3 |
| 27.5° | 11796.1 | 11789.8 | 11842.3 | 11911.6 | 12252.0 | 13014.8 | 14296.5 | 15137.0 | 14615.9 | 14046.4 | 11088.0 |
| 30°   | 12565.1 | 12607.1 | 12613.4 | 12579.8 | 12739.5 | 13361.5 | 14760.8 | 16023.7 | 15563.5 | 14950.0 | 11527.1 |
| 32.5° | 13554.8 | 13582.1 | 13550.6 | 13439.2 | 13416.1 | 13853.1 | 15216.8 | 16952.4 | 16588.9 | 15893.4 | 11928.4 |
| 35°   | 14811.3 | 14758.7 | 14660.0 | 14433.1 | 14216.6 | 14510.8 | 15737.9 | 17881.1 | 17740.3 | 17034.3 | 12481.1 |
| 37.5° | 16158.1 | 16160.2 | 16038.4 | 15523.6 | 15225.2 | 15351.3 | 16456.5 | 18933.8 | 19133.4 | 18391.7 | 13189.2 |
| 40°   | 17238.1 | 17294.9 | 17370.5 | 16693.9 | 16307.3 | 16481.7 | 17370.5 | 20154.6 | 20780.7 | 20001.2 | 14111.6 |
| 42.5° | 17992.5 | 18057.6 | 18271.9 | 17847.5 | 17446.2 | 17769.7 | 18446.3 | 21457.3 | 22629.8 | 21858.7 | 15191.6 |
| 45°   | 18790.9 | 18826.6 | 18977.9 | 18795.1 | 18538.8 | 19267.9 | 19658.7 | 22806.3 | 24586.0 | 23838.0 | 16399.8 |
| 47.5° | 19631.4 | 19669.2 | 19824.7 | 19702.8 | 19568.4 | 20667.3 | 20923.6 | 24077.5 | 26460.3 | 26012.7 | 17689.9 |
| 50°   | 20669.4 | 20694.6 | 20841.7 | 20621.1 | 20663.1 | 21722.1 | 22054.1 | 25243.7 | 28424.9 | 27966.8 | 18984.2 |
| 52.5° | 22085.6 | 22091.9 | 22295.7 | 22096.1 | 21898.6 | 22495.3 | 23026.9 | 26342.6 | 29965.0 | 29748.6 | 20278.6 |
| 55°   | 23195.0 | 23262.3 | 23930.4 | 23888.4 | 23774.9 | 23197.1 | 23840.1 | 27389.0 | 31339.2 | 31442.2 | 21652.7 |
| 57.5° | 22486.9 | 22749.6 | 24102.7 | 25056.7 | 25985.4 | 24943.2 | 24939.0 | 28567.7 | 32616.7 | 33104.2 | 23163.5 |
| 60°   | 19694.4 | 20051.6 | 22045.7 | 24161.6 | 27067.5 | 27981.5 | 27220.9 | 30007.1 | 33906.9 | 34751.5 | 25056.7 |
| 62.5° | 14065.4 | 14653.7 | 17355.8 | 20734.5 | 25584.1 | 29994.5 | 31864.5 | 32291.1 | 35661.4 | 36659.4 | 27517.2 |
| 65°   | 7110.4  | 7555.9  | 9821.0  | 13891.0 | 20440.4 | 28679.1 | 36911.6 | 37291.9 | 38710.2 | 39596.9 | 31305.6 |
| 67.5° | 4320.0  | 4488.1  | 5593.4  | 7726.1  | 12531.5 | 22339.8 | 38558.9 | 45627.3 | 44610.3 | 45081.0 | 36707.8 |
| 70°   | 3183.3  | 3307.3  | 3996.5  | 5131.1  | 7207.1  | 13109.3 | 33503.4 | 51575.8 | 50907.6 | 50855.0 | 40700.0 |
| 72°   | 2479.4  | 2569.8  | 3179.1  | 4145.6  | 5269.8  | 7864.7  | 24283.4 | 49380.0 | 52710.4 | 52445.6 | 40334.4 |
| 72.5° | 2351.2  | 2431.1  | 2985.8  | 3901.9  | 4979.8  | 7129.3  | 21833.4 | 47898.7 | 52580.1 | 52460.4 | 39861.6 |
| 75°   | 1851.1  | 1907.9  | 2210.4  | 3017.3  | 3897.7  | 4044.8  | 11964.2 | 37119.6 | 46644.3 | 48583.7 | 35852.6 |
| 77.5° | 1531.8  | 1540.2  | 1699.9  | 2195.7  | 3038.3  | 2859.7  | 5877.0  | 25754.3 | 33400.5 | 35533.2 | 25397.1 |
| 80°   | 1248.1  | 1258.6  | 1334.3  | 1540.2  | 2298.7  | 2115.9  | 2790.4  | 14809.2 | 18700.6 | 18723.7 | 12077.6 |
| 82.5° | 993.9   | 996.0   | 1080.0  | 1126.2  | 1651.5  | 1512.9  | 1599.0  | 6952.8  | 8171.5  | 7860.5  | 4341.1  |
| 85°   | 699.7   | 685.0   | 1054.8  | 924.5   | 1080.0  | 970.7   | 882.5   | 2752.6  | 3378.7  | 3231.6  | 1359.5  |
| 87.5° | 233.2   | 241.6   | 468.6   | 598.8   | 630.4   | 550.5   | 392.9   | 1054.8  | 1275.4  | 1264.9  | 430.7   |
| 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°    | 7507.5  | 7507.5 | 7507.5 | 7507.5 | 7507.5 | 7507.5 | 7507.5 | 7507.5 | 7507.5 | 7507.5 | 7507.5 |
| 2.5°  | 7545.4  | 7478.1 | 7379.4 | 7270.1 | 7184.0 | 7095.7 | 7030.6 | 6997.0 | 6959.1 | 6927.6 | 6965.4 |
| 5°    | 7625.2  | 7499.1 | 7289.0 | 7083.1 | 6931.8 | 6797.3 | 6700.7 | 6650.3 | 6604.0 | 6572.5 | 6576.7 |
| 7.5°  | 7755.5  | 7551.7 | 7198.7 | 6898.2 | 6688.1 | 6543.1 | 6444.3 | 6410.7 | 6381.3 | 6372.9 | 6383.4 |
| 10°   | 7894.2  | 7593.7 | 7078.9 | 6679.7 | 6440.1 | 6320.4 | 6276.2 | 6299.4 | 6320.4 | 6339.3 | 6360.3 |
| 12.5° | 8051.8  | 7631.5 | 6904.5 | 6423.3 | 6219.5 | 6173.3 | 6217.4 | 6318.3 | 6391.8 | 6435.9 | 6463.3 |
| 15°   | 8257.7  | 7665.1 | 6702.8 | 6167.0 | 6030.4 | 6082.9 | 6232.1 | 6406.5 | 6534.7 | 6616.6 | 6629.2 |
| 17.5° | 8446.8  | 7663.0 | 6444.3 | 5908.5 | 5877.0 | 6030.4 | 6255.2 | 6501.1 | 6673.4 | 6788.9 | 6812.1 |
| 20°   | 8642.2  | 7606.3 | 6143.9 | 5656.4 | 5721.5 | 5973.7 | 6265.7 | 6562.0 | 6770.0 | 6904.5 | 6936.0 |
| 22.5° | 8825.0  | 7507.5 | 5814.0 | 5427.4 | 5591.3 | 5898.0 | 6225.8 | 6526.3 | 6734.3 | 6843.6 | 6877.2 |
| 25°   | 8949.0  | 7335.2 | 5479.9 | 5234.1 | 5475.7 | 5805.6 | 6095.5 | 6337.2 | 6492.7 | 6547.3 | 6555.7 |
| 27.5° | 9012.0  | 7110.4 | 5164.7 | 5066.0 | 5355.9 | 5654.3 | 5853.9 | 5973.7 | 6017.8 | 6013.6 | 6005.2 |
| 30°   | 9020.4  | 6814.2 | 4893.7 | 4929.4 | 5217.2 | 5431.6 | 5526.1 | 5503.0 | 5446.3 | 5349.6 | 5358.0 |
| 32.5° | 8993.1  | 6480.1 | 4666.7 | 4799.1 | 5040.7 | 5160.5 | 5164.7 | 5053.4 | 4902.1 | 4748.7 | 4706.7 |
| 35°   | 9001.5  | 6152.3 | 4467.1 | 4652.0 | 4826.4 | 4879.0 | 4830.6 | 4666.7 | 4460.8 | 4263.3 | 4221.3 |
| 37.5° | 9093.9  | 5866.5 | 4294.8 | 4481.8 | 4589.0 | 4601.6 | 4532.3 | 4360.0 | 4208.7 | 4015.4 | 3998.6 |
| 40°   | 9314.6  | 5662.7 | 4130.9 | 4290.6 | 4351.6 | 4357.9 | 4259.1 | 4137.2 | 4149.8 | 4046.9 | 4044.8 |
| 42.5° | 9711.7  | 5574.5 | 3986.0 | 4091.0 | 4128.8 | 4141.4 | 4065.8 | 3988.1 | 4097.3 | 4030.1 | 4007.0 |
| 45°   | 10224.4 | 5595.5 | 3864.1 | 3895.6 | 3964.9 | 4023.8 | 3977.5 | 3883.0 | 3925.0 | 3633.0 | 3536.3 |
| 47.5° | 10816.9 | 5729.9 | 3767.4 | 3727.5 | 3847.3 | 3958.6 | 3887.2 | 3744.3 | 3595.1 | 3305.2 | 3250.5 |
| 50°   | 11510.3 | 5938.0 | 3679.2 | 3561.5 | 3719.1 | 3870.4 | 3798.9 | 3595.1 | 3370.3 | 3229.5 | 3210.6 |
| 52.5° | 12233.1 | 6192.2 | 3590.9 | 3378.7 | 3557.3 | 3803.1 | 3767.4 | 3561.5 | 3284.2 | 3145.5 | 3120.3 |
| 55°   | 13052.6 | 6448.5 | 3479.6 | 3166.5 | 3382.9 | 3771.6 | 3752.7 | 3439.6 | 3219.0 | 3141.3 | 3122.4 |
| 57.5° | 14071.7 | 6740.6 | 3332.5 | 2945.9 | 3219.0 | 3658.2 | 3599.3 | 3366.1 | 3151.8 | 3092.9 | 3086.6 |
| 60°   | 15399.6 | 7171.4 | 3120.3 | 2710.5 | 3019.4 | 3483.8 | 3471.2 | 3258.9 | 3044.6 | 3002.6 | 2994.2 |
| 62.5° | 17391.5 | 7883.7 | 2828.2 | 2475.2 | 2796.7 | 3187.5 | 3303.1 | 3114.0 | 2931.2 | 2929.1 | 2933.3 |
| 65°   | 20480.3 | 8955.3 | 2510.9 | 2269.3 | 2571.9 | 2937.5 | 3107.7 | 2964.8 | 2815.6 | 2857.6 | 2863.9 |
| 67.5° | 24060.7 | 9844.1 | 2199.9 | 2067.6 | 2342.8 | 2700.0 | 2931.2 | 2815.6 | 2662.2 | 2771.5 | 2773.6 |
| 70°   | 25252.1 | 9049.8 | 1926.8 | 1868.0 | 2105.4 | 2471.0 | 2739.9 | 2651.7 | 2496.2 | 2605.5 | 2595.0 |
| 72°   | 23499.7 | 7305.8 | 1750.3 | 1716.7 | 1926.8 | 2281.9 | 2569.8 | 2498.3 | 2344.9 | 2418.5 | 2391.2 |
| 72.5° | 22947.1 | 6965.4 | 1706.2 | 1678.8 | 1878.5 | 2233.6 | 2525.6 | 2460.5 | 2307.1 | 2370.1 | 2344.9 |
| 75°   | 20469.8 | 6049.3 | 1466.6 | 1472.9 | 1638.9 | 1998.2 | 2277.7 | 2256.7 | 2099.1 | 2105.4 | 2097.0 |
| 77.5° | 14847.0 | 4435.6 | 1235.5 | 1277.5 | 1395.2 | 1756.6 | 2027.6 | 2015.0 | 1842.7 | 1811.2 | 1804.9 |
| 80°   | 6889.8  | 2263.0 | 1006.5 | 1025.4 | 1147.2 | 1468.7 | 1729.3 | 1712.5 | 1573.8 | 1533.9 | 1510.8 |
| 82.5° | 2359.6  | 1075.8 | 756.4  | 769.0  | 888.8  | 1183.0 | 1500.2 | 1489.7 | 1374.2 | 1296.4 | 1248.1 |
| 85°   | 842.6   | 535.8  | 529.5  | 516.9  | 634.6  | 930.8  | 1306.9 | 1250.2 | 1080.0 | 920.3  | 916.1  |
| 87.5° | 273.2   | 229.0  | 273.2  | 271.1  | 369.8  | 630.4  | 949.7  | 809.0  | 783.7  | 651.4  | 638.8  |
| 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)