

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: P267292

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-7027-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-5WQ-7027-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53916.7 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 558  
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: 28.75 FT

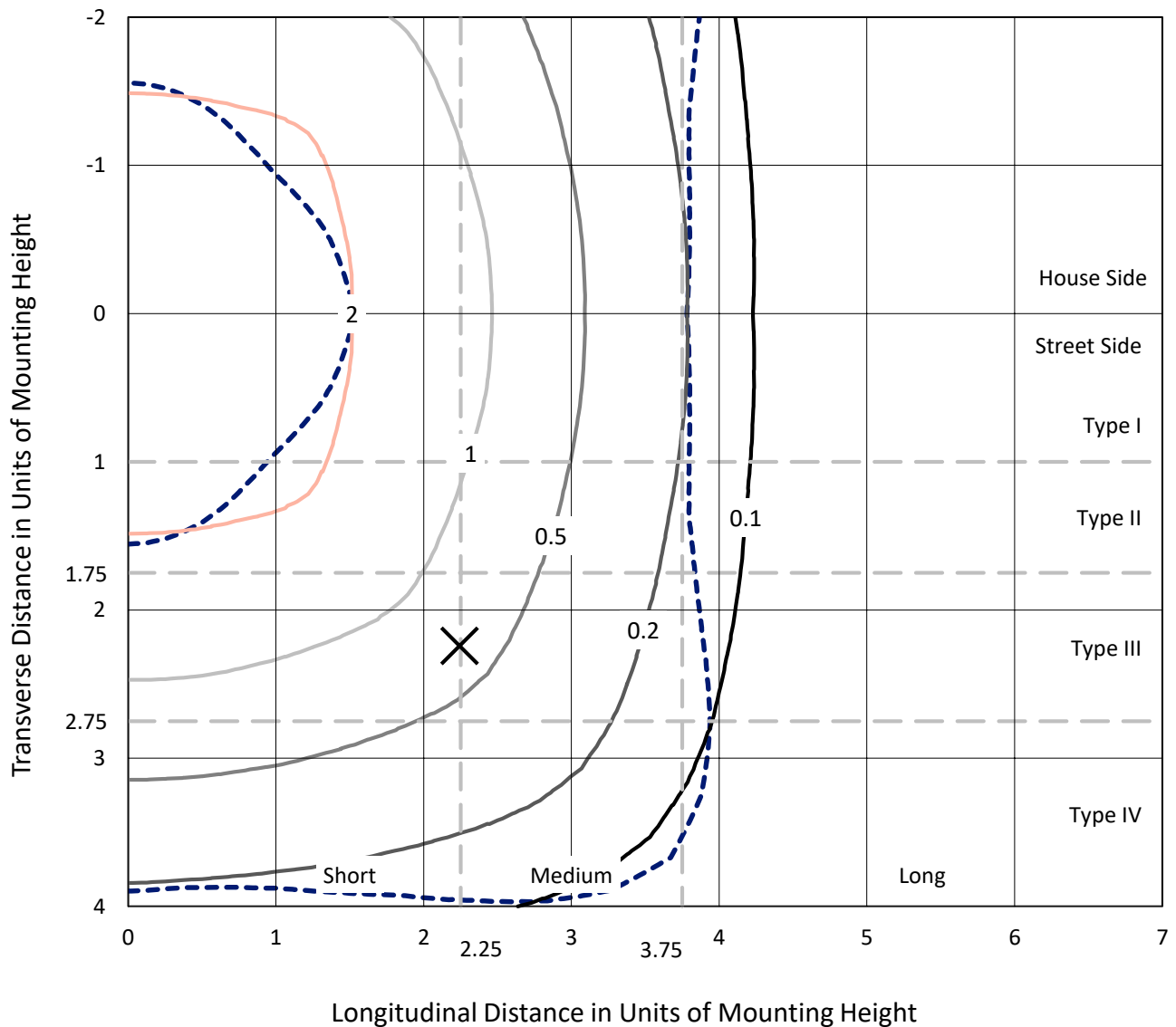


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

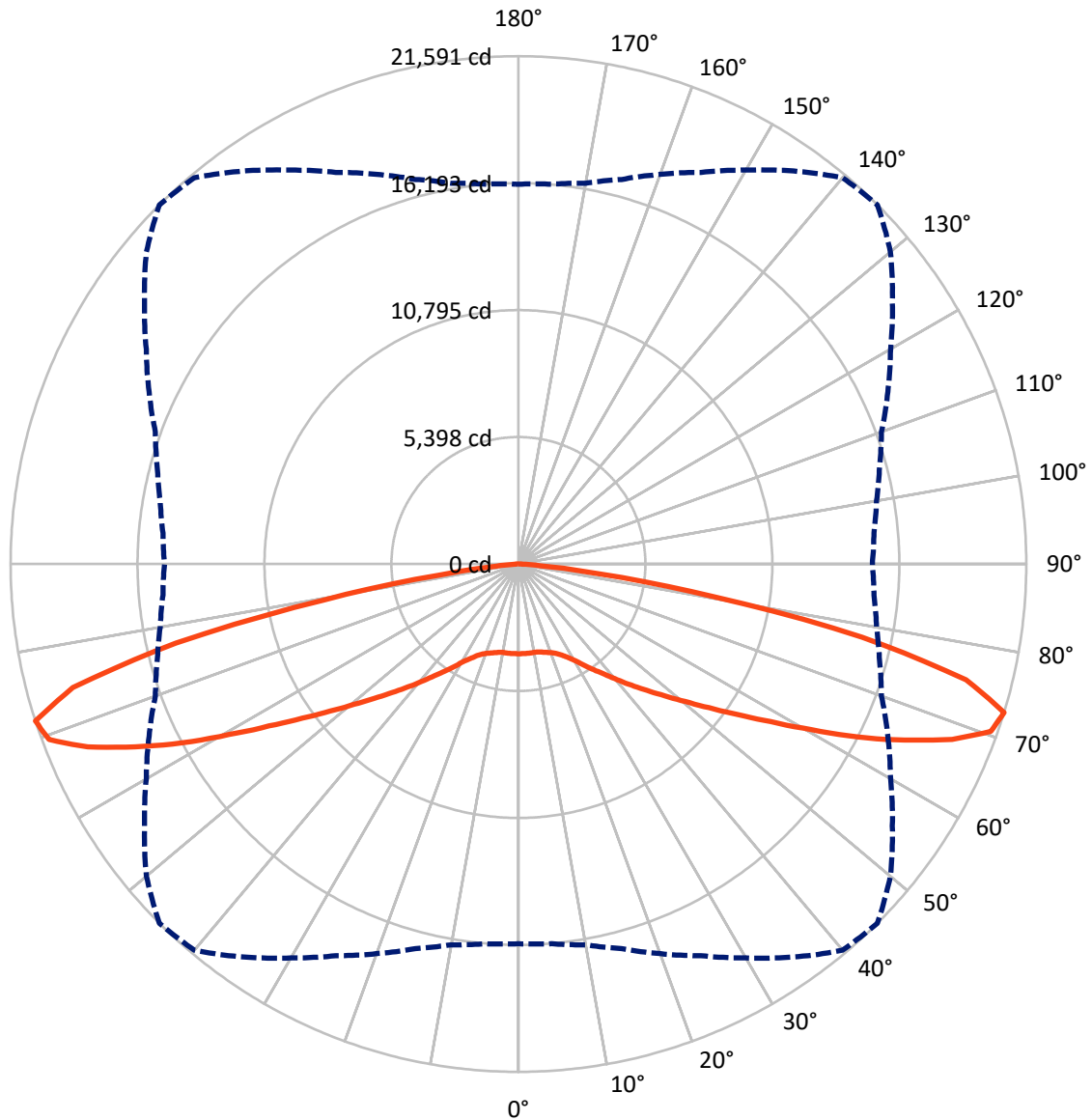


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 26958.4  | 0.0    | 26958.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 26958.4  | 0.0    | 26958.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 53916.7  | 0.0    | 53916.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 364.6   | 0.7       |
| 10°-20°   | 1107.3  | 2.1       |
| 20°-30°   | 2023.5  | 3.8       |
| 30°-40°   | 3488.8  | 6.5       |
| 40°-50°   | 5964.1  | 11.1      |
| 50°-60°   | 9667.1  | 17.9      |
| 60°-70°   | 16037.3 | 29.7      |
| 70°-80°   | 14125.1 | 26.2      |
| 80°-90°   | 1138.9  | 2.1       |
| 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°    | 53916.7 | 100.0     |
| 0°-180°   | 53916.7 | 100.0     |



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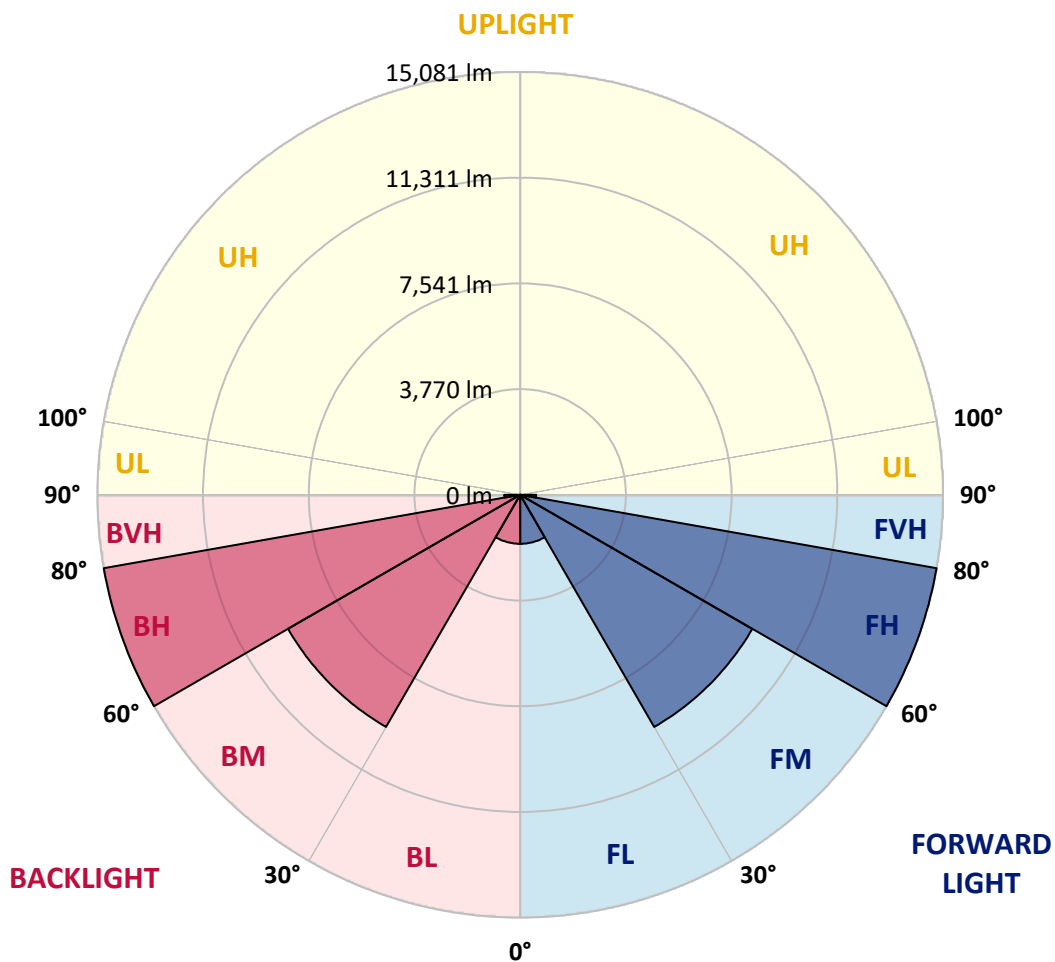
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1747.7  | 3.2       |                         |      |        |
| FM   | (30°-60°)   | 9560.0  | 17.7      |                         |      |        |
| FH   | (60°-80°)   | 15081.2 | 28.0      |                         |      | G5     |
| FVH  | (80°-90°)   | 569.4   | 1.1       |                         |      | G4/750 |
| BL   | (0°-30°)    | 1747.7  | 3.2       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 9560.0  | 17.7      | B5                      |      |        |
| BH   | (60°-80°)   | 15081.2 | 28.0      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 569.4   | 1.1       |                         |      | G4/750 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  |
| 2.5°  | 3818.2  | 3820.6  | 3823.0  | 3820.6  | 3820.6  | 3818.2  | 3815.7  | 3818.2  | 3815.7  | 3810.7  | 3813.1  |
| 5°    | 3830.6  | 3835.5  | 3835.5  | 3830.6  | 3833.0  | 3830.6  | 3825.5  | 3828.0  | 3823.0  | 3815.7  | 3815.7  |
| 7.5°  | 3845.4  | 3847.8  | 3847.8  | 3842.9  | 3845.4  | 3840.4  | 3835.5  | 3833.0  | 3828.0  | 3818.2  | 3810.7  |
| 10°   | 3867.7  | 3870.1  | 3867.7  | 3862.6  | 3862.6  | 3855.3  | 3842.9  | 3837.9  | 3828.0  | 3813.1  | 3805.8  |
| 12.5° | 3892.4  | 3894.8  | 3892.4  | 3887.3  | 3884.9  | 3872.6  | 3862.6  | 3855.3  | 3847.8  | 3835.5  | 3823.0  |
| 15°   | 3926.9  | 3931.9  | 3926.9  | 3917.1  | 3909.7  | 3899.7  | 3894.8  | 3897.2  | 3899.7  | 3889.8  | 3877.4  |
| 17.5° | 3991.2  | 3993.8  | 3986.3  | 3964.0  | 3954.2  | 3944.3  | 3944.3  | 3949.2  | 3956.7  | 3951.6  | 3939.2  |
| 20°   | 4109.9  | 4102.5  | 4085.2  | 4058.1  | 4045.6  | 4028.3  | 4025.8  | 4028.3  | 4028.3  | 4025.8  | 4016.0  |
| 22.5° | 4258.3  | 4253.4  | 4231.0  | 4196.5  | 4179.2  | 4169.4  | 4154.4  | 4142.1  | 4139.6  | 4132.3  | 4122.3  |
| 25°   | 4436.4  | 4433.9  | 4406.6  | 4377.0  | 4364.7  | 4352.3  | 4339.9  | 4322.6  | 4307.8  | 4290.5  | 4280.6  |
| 27.5° | 4663.9  | 4653.9  | 4614.5  | 4599.6  | 4582.3  | 4574.9  | 4557.6  | 4537.8  | 4525.4  | 4503.2  | 4490.7  |
| 30°   | 4913.5  | 4913.5  | 4881.5  | 4876.4  | 4876.4  | 4859.2  | 4839.4  | 4804.9  | 4782.5  | 4760.3  | 4752.9  |
| 32.5° | 5163.4  | 5165.9  | 5133.8  | 5143.6  | 5151.1  | 5163.4  | 5168.4  | 5156.0  | 5141.1  | 5138.7  | 5123.8  |
| 35°   | 5524.4  | 5514.5  | 5482.4  | 5489.8  | 5487.3  | 5485.0  | 5485.0  | 5512.1  | 5517.0  | 5521.9  | 5492.2  |
| 37.5° | 5972.0  | 5972.0  | 5940.0  | 5940.0  | 5925.0  | 5910.2  | 5890.5  | 5907.8  | 5934.9  | 5942.4  | 5922.5  |
| 40°   | 6484.0  | 6501.3  | 6461.7  | 6459.3  | 6464.2  | 6417.1  | 6394.9  | 6422.2  | 6439.4  | 6469.1  | 6446.9  |
| 42.5° | 7087.3  | 7075.0  | 7035.3  | 7030.5  | 7003.2  | 6988.4  | 6968.6  | 6990.9  | 7018.1  | 7037.9  | 7045.2  |
| 45°   | 7666.0  | 7656.1  | 7611.6  | 7611.6  | 7584.4  | 7572.1  | 7581.9  | 7619.0  | 7631.3  | 7658.5  | 7685.8  |
| 47.5° | 8237.2  | 8224.8  | 8195.1  | 8207.5  | 8210.0  | 8232.2  | 8264.3  | 8299.0  | 8333.7  | 8370.8  | 8383.2  |
| 50°   | 8820.7  | 8823.2  | 8791.2  | 8820.7  | 8857.8  | 8919.7  | 9006.2  | 9063.1  | 9134.9  | 9181.8  | 9196.7  |
| 52.5° | 9352.4  | 9362.3  | 9397.0  | 9466.2  | 9540.4  | 9661.6  | 9809.9  | 9948.4  | 10067.1 | 10146.3 | 10141.3 |
| 55°   | 9990.5  | 10005.3 | 10089.5 | 10208.1 | 10329.3 | 10512.2 | 10732.3 | 10977.2 | 11174.9 | 11288.7 | 11217.0 |
| 57.5° | 10806.5 | 10838.7 | 10932.6 | 11093.3 | 11273.9 | 11511.3 | 11813.0 | 12181.5 | 12488.1 | 12641.4 | 12525.2 |
| 60°   | 11926.7 | 11946.5 | 12060.3 | 12238.2 | 12456.0 | 12750.3 | 13153.3 | 13647.9 | 14080.7 | 14283.4 | 14149.8 |
| 62.5° | 13403.0 | 13440.1 | 13531.7 | 13712.2 | 13934.7 | 14268.6 | 14760.7 | 15379.0 | 15918.0 | 16199.9 | 15898.3 |
| 65°   | 15166.3 | 15284.9 | 15361.6 | 15544.6 | 15752.3 | 16105.9 | 16620.4 | 17283.0 | 17861.7 | 18047.2 | 17698.4 |
| 67.5° | 16912.1 | 17016.0 | 17149.5 | 17359.7 | 17569.9 | 17968.0 | 18445.3 | 19088.3 | 19723.7 | 19891.9 | 19350.4 |
| 70°   | 17676.2 | 17735.5 | 17943.3 | 18230.2 | 18633.3 | 19103.0 | 19654.6 | 20376.7 | 21163.0 | 21301.5 | 20613.9 |
| 72.5° | 16145.4 | 16204.9 | 16437.2 | 16924.4 | 17626.7 | 18373.6 | 19335.5 | 20396.3 | 21434.9 | 21590.9 | 20643.7 |
| 75°   | 12211.1 | 12114.7 | 12458.5 | 13103.8 | 14051.0 | 15092.1 | 16437.2 | 17958.1 | 19459.2 | 19654.6 | 18524.4 |
| 77.5° | 6310.9  | 6298.5  | 6558.0  | 7359.4  | 8489.4  | 9673.9  | 11155.2 | 12873.9 | 14342.8 | 14936.3 | 14016.3 |
| 80°   | 1778.0  | 1797.8  | 1921.5  | 2319.6  | 2979.9  | 3835.5  | 4992.8  | 6602.6  | 7804.5  | 8417.7  | 7903.4  |
| 82.5° | 697.4   | 751.7   | 798.8   | 873.0   | 959.5   | 1085.6  | 1449.1  | 2156.3  | 2893.4  | 3457.0  | 2831.5  |
| 85°   | 249.8   | 267.1   | 378.4   | 447.5   | 455.0   | 479.8   | 546.4   | 637.9   | 769.0   | 917.4   | 754.2   |
| 87.5° | 94.0    | 103.8   | 121.2   | 200.3   | 197.8   | 180.5   | 220.1   | 230.0   | 173.2   | 158.3   | 195.3   |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  | 3818.2  |
| 2.5°  | 3808.3  | 3810.7  | 3810.7  | 3813.1  | 3815.7  | 3815.7  | 3820.6  | 3820.6  |
| 5°    | 3810.7  | 3810.7  | 3805.8  | 3808.3  | 3805.8  | 3805.8  | 3808.3  | 3808.3  |
| 7.5°  | 3805.8  | 3803.3  | 3798.4  | 3795.9  | 3790.9  | 3790.9  | 3790.9  | 3790.9  |
| 10°   | 3798.4  | 3795.9  | 3790.9  | 3788.4  | 3785.9  | 3785.9  | 3785.9  | 3785.9  |
| 12.5° | 3818.2  | 3810.7  | 3805.8  | 3803.3  | 3803.3  | 3803.3  | 3803.3  | 3803.3  |
| 15°   | 3870.1  | 3852.8  | 3840.4  | 3840.4  | 3842.9  | 3847.8  | 3847.8  | 3852.8  |
| 17.5° | 3934.3  | 3914.5  | 3902.1  | 3892.4  | 3897.2  | 3904.8  | 3909.7  | 3914.5  |
| 20°   | 4011.0  | 4001.1  | 3983.9  | 3973.9  | 3973.9  | 3983.9  | 3988.7  | 3991.2  |
| 22.5° | 4117.3  | 4109.9  | 4102.5  | 4090.2  | 4090.2  | 4095.2  | 4105.0  | 4105.0  |
| 25°   | 4275.7  | 4270.7  | 4265.7  | 4255.8  | 4253.4  | 4253.4  | 4258.3  | 4263.3  |
| 27.5° | 4473.5  | 4476.0  | 4471.0  | 4468.4  | 4461.2  | 4458.6  | 4466.1  | 4463.6  |
| 30°   | 4738.1  | 4750.3  | 4762.8  | 4752.9  | 4740.5  | 4733.1  | 4725.8  | 4715.8  |
| 32.5° | 5096.7  | 5081.8  | 5071.9  | 5054.7  | 5032.3  | 5012.5  | 4997.7  | 4980.5  |
| 35°   | 5435.5  | 5410.8  | 5400.8  | 5415.6  | 5413.1  | 5400.8  | 5383.5  | 5368.6  |
| 37.5° | 5850.8  | 5845.9  | 5850.8  | 5878.1  | 5873.1  | 5885.4  | 5850.8  | 5848.3  |
| 40°   | 6375.1  | 6380.0  | 6414.6  | 6446.9  | 6464.2  | 6481.5  | 6461.7  | 6441.8  |
| 42.5° | 6983.5  | 6981.0  | 6993.3  | 7037.9  | 7067.5  | 7087.3  | 7045.2  | 7040.3  |
| 45°   | 7626.4  | 7609.1  | 7619.0  | 7656.1  | 7685.8  | 7707.9  | 7661.0  | 7661.0  |
| 47.5° | 8333.7  | 8303.9  | 8271.9  | 8313.9  | 8331.2  | 8346.1  | 8309.0  | 8296.6  |
| 50°   | 9122.5  | 9060.7  | 8991.5  | 9008.7  | 9008.7  | 9003.8  | 8956.8  | 8954.3  |
| 52.5° | 10027.6 | 9913.9  | 9787.8  | 9740.7  | 9713.6  | 9683.8  | 9602.3  | 9562.6  |
| 55°   | 11068.6 | 10898.0 | 10700.3 | 10579.0 | 10514.8 | 10433.2 | 10297.1 | 10260.0 |
| 57.5° | 12285.3 | 12018.2 | 11677.0 | 11528.6 | 11385.2 | 11251.6 | 11100.7 | 11058.8 |
| 60°   | 13727.0 | 13333.8 | 12881.2 | 12606.9 | 12451.0 | 12322.4 | 12166.6 | 12159.2 |
| 62.5° | 15334.3 | 14713.7 | 14201.8 | 13954.5 | 13840.7 | 13727.0 | 13578.6 | 13598.5 |
| 65°   | 16969.0 | 16321.0 | 15841.3 | 15641.0 | 15534.7 | 15440.7 | 15292.3 | 15314.7 |
| 67.5° | 18581.4 | 17985.3 | 17458.6 | 17253.3 | 17134.6 | 17016.0 | 16882.3 | 16904.7 |
| 70°   | 19738.5 | 18999.2 | 18405.7 | 17950.7 | 17666.2 | 17344.8 | 17137.1 | 17085.3 |
| 72.5° | 19407.3 | 18267.3 | 17325.0 | 16422.5 | 15893.3 | 15463.0 | 15171.1 | 15045.1 |
| 75°   | 16795.9 | 15237.9 | 14026.2 | 12918.3 | 12295.2 | 11788.3 | 11419.9 | 11189.8 |
| 77.5° | 12473.2 | 10722.4 | 9290.6  | 8014.7  | 7005.7  | 6328.1  | 5850.8  | 5541.7  |
| 80°   | 6827.7  | 5193.0  | 3795.9  | 2668.2  | 1961.0  | 1629.6  | 1439.3  | 1347.7  |
| 82.5° | 2126.6  | 1372.4  | 1011.4  | 873.0   | 811.1   | 776.5   | 719.6   | 628.2   |
| 85°   | 677.6   | 593.5   | 551.5   | 526.8   | 502.1   | 437.7   | 301.7   | 274.5   |
| 87.5° | 262.1   | 269.5   | 267.1   | 252.2   | 257.2   | 185.5   | 148.4   | 131.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)