

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: P192736

Luminaire Tested: **GAN-AF-08-LED-U-RW-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-RW-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31074.4 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 257  
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



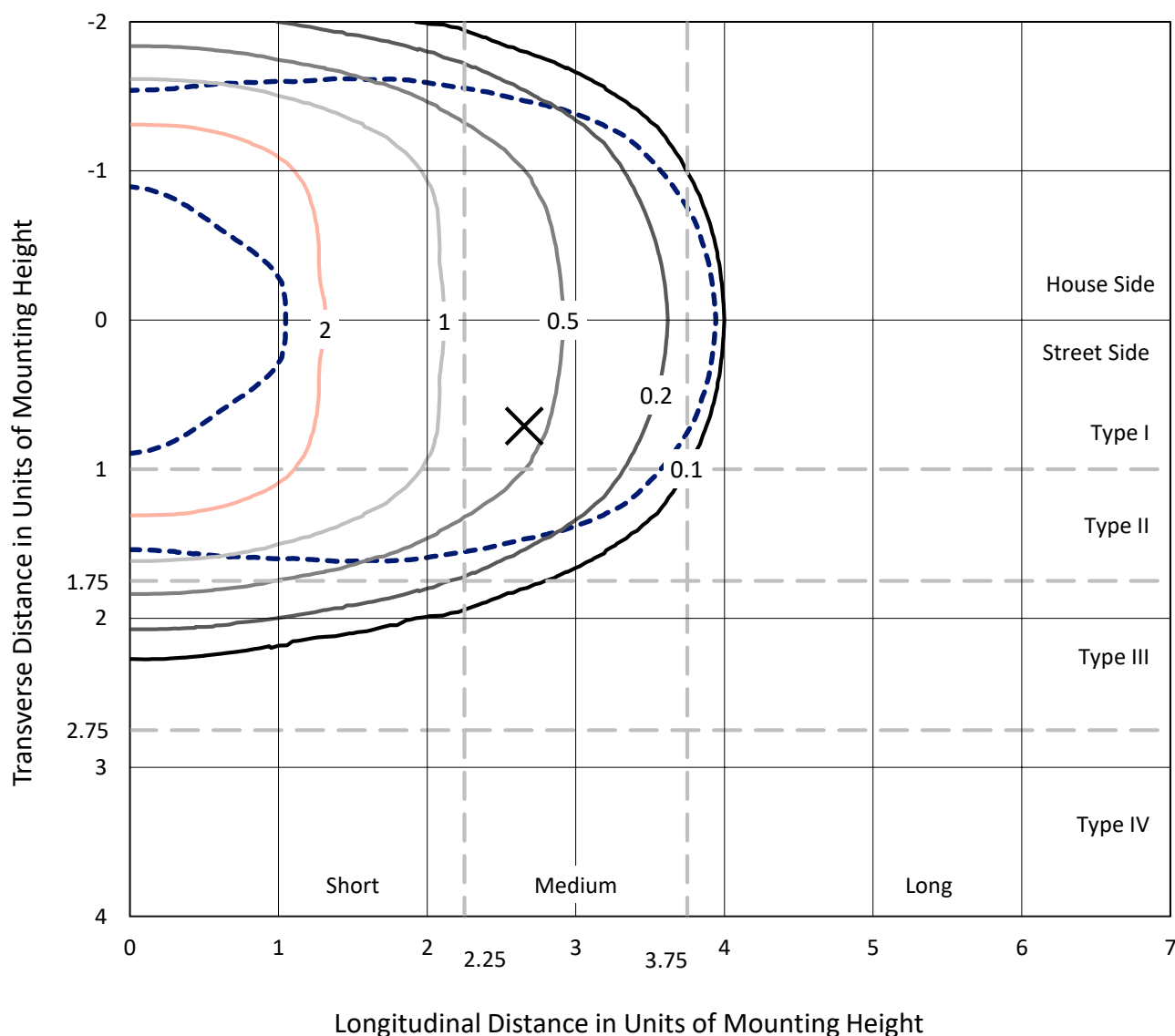
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

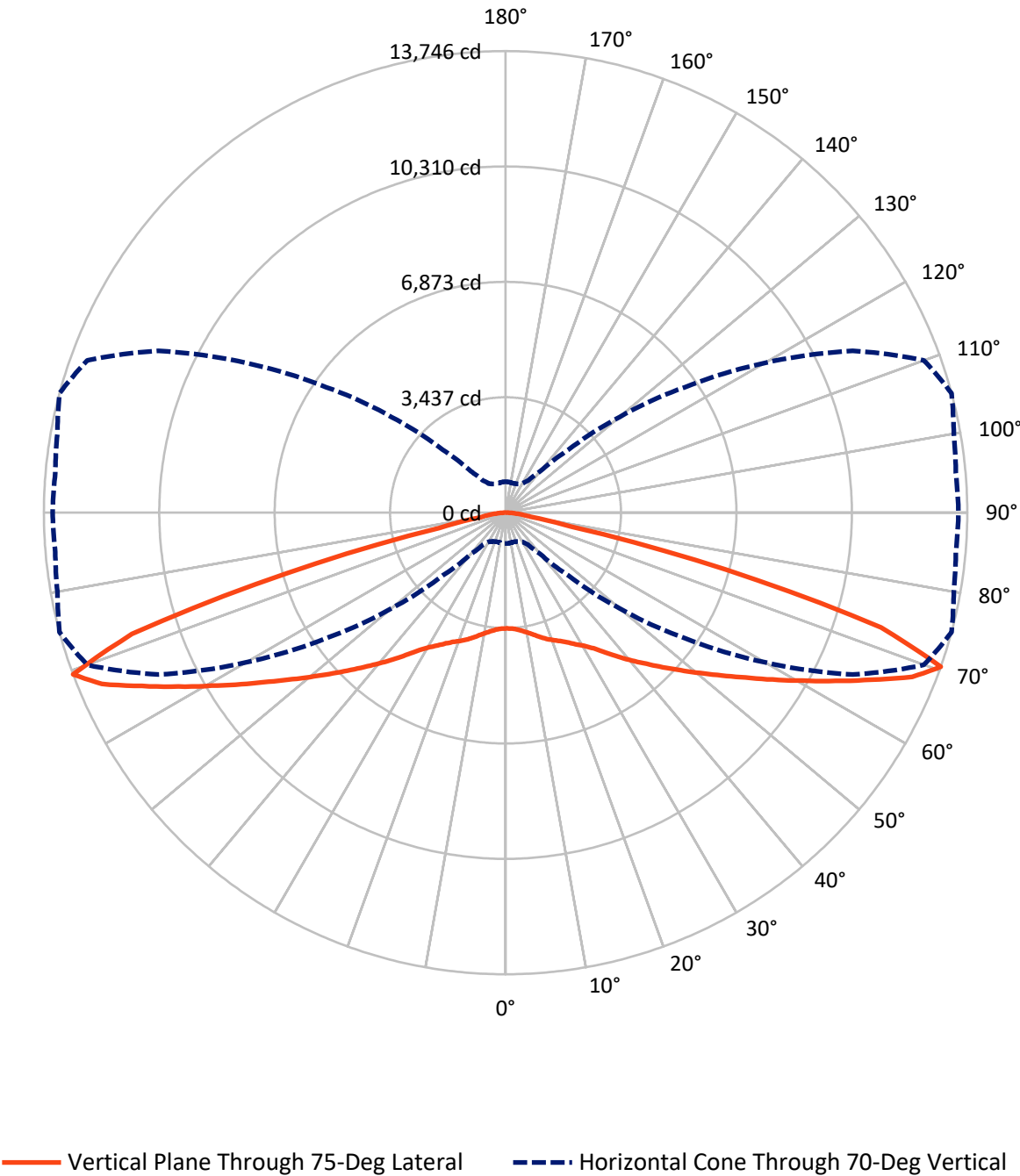


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Medium - Full Cutoff



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Luminous Intensity Polar Plot



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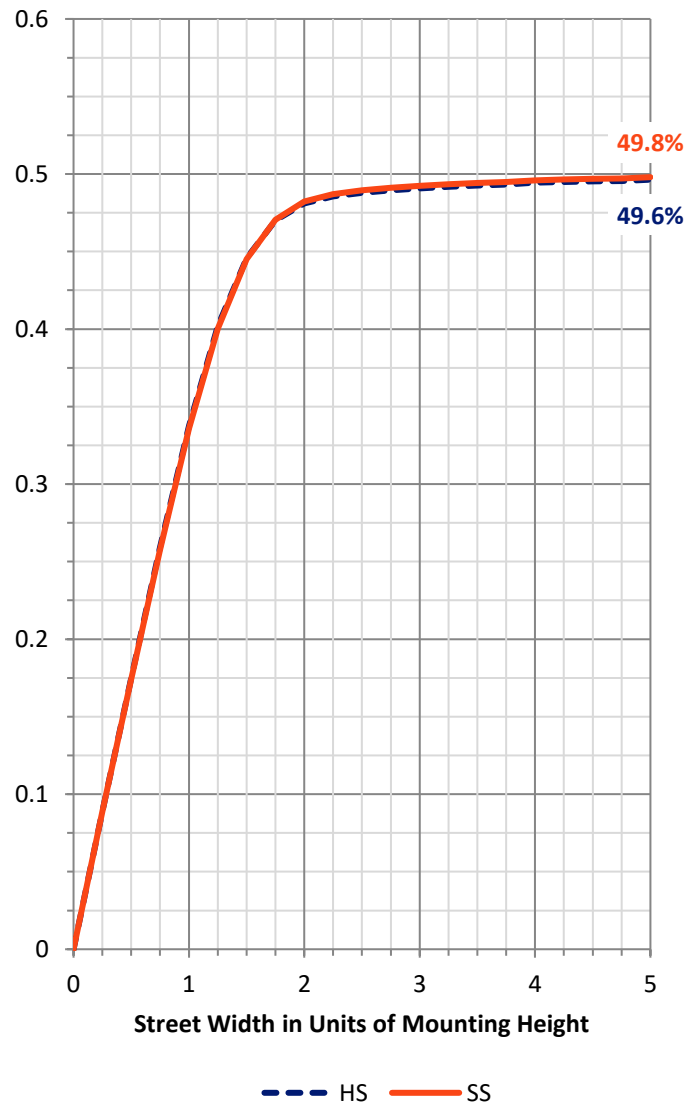
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15537.2  | 0.0    | 15537.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15537.2  | 0.0    | 15537.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31074.4  | 0.0    | 31074.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 330.6   | 1.1       |
| 10°-20°   | 1027.2  | 3.3       |
| 20°-30°   | 1933.3  | 6.2       |
| 30°-40°   | 3423.5  | 11.0      |
| 40°-50°   | 5725.2  | 18.4      |
| 50°-60°   | 7978.0  | 25.7      |
| 60°-70°   | 7398.3  | 23.8      |
| 70°-80°   | 2948.5  | 9.5       |
| 80°-90°   | 309.9   | 1.0       |
| 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°    | 31074.4 | 100.0     |
| 0°-180°   | 31074.4 | 100.0     |

**Coefficient of Utilization**



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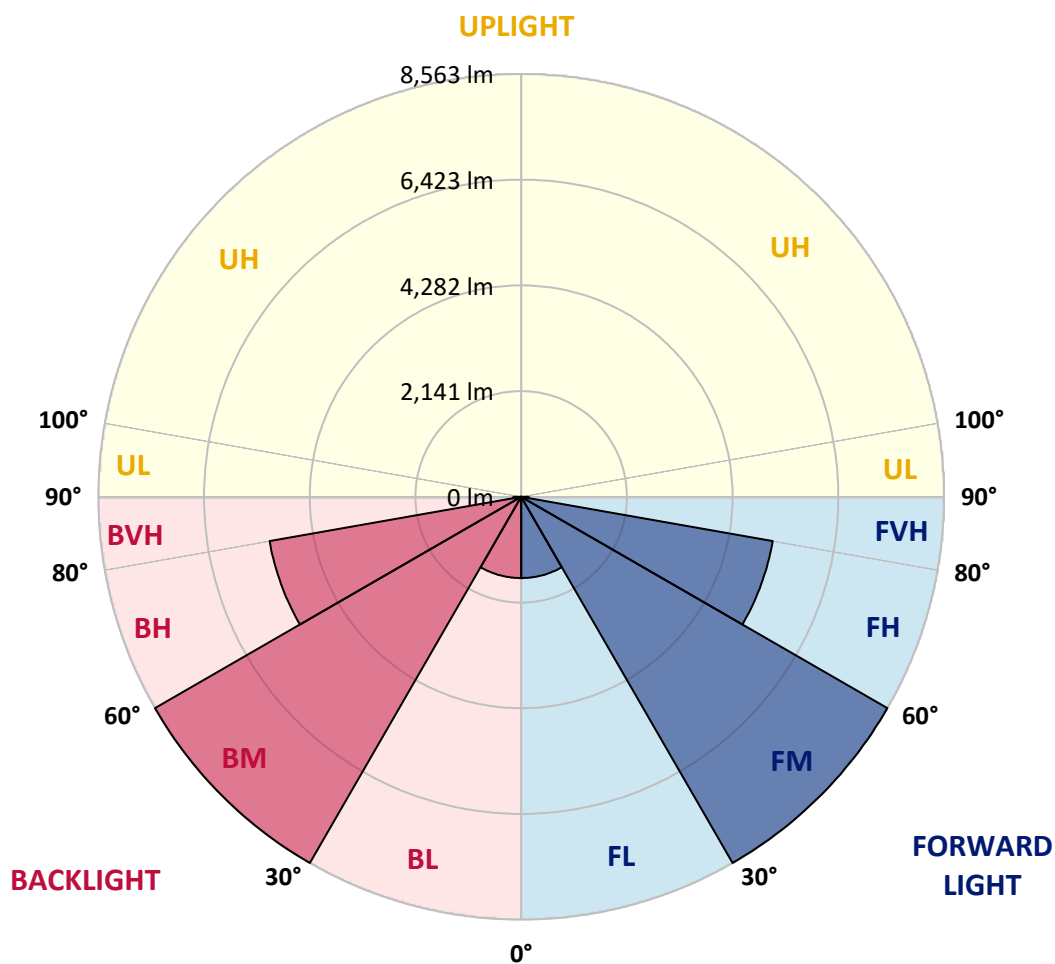
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1645.5 | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 8563.3 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 5173.4 | 16.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 155.0  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1645.5 | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8563.3 | 27.6      | B5                      |      |         |
| BH   | (60°-80°)   | 5173.4 | 16.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 155.0  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 3446.9 | 3446.9 | 3446.9 | 3446.9 | 3446.9 | 3446.9 | 3446.9 | 3446.9 | 3446.9  | 3446.9  | 3446.9  |
| 2.5°  | 3441.0 | 3438.1 | 3441.0 | 3439.5 | 3442.4 | 3442.4 | 3445.4 | 3451.3 | 3451.3  | 3455.7  | 3454.2  |
| 5°    | 3407.2 | 3405.7 | 3410.2 | 3414.6 | 3418.9 | 3427.8 | 3436.6 | 3449.9 | 3460.1  | 3467.5  | 3474.8  |
| 7.5°  | 3341.1 | 3341.1 | 3347.0 | 3357.3 | 3367.6 | 3386.7 | 3407.2 | 3433.7 | 3460.1  | 3482.1  | 3501.2  |
| 10°   | 3286.8 | 3289.7 | 3297.1 | 3314.7 | 3332.3 | 3361.7 | 3389.6 | 3427.8 | 3464.5  | 3501.2  | 3530.6  |
| 12.5° | 3254.5 | 3258.8 | 3272.1 | 3298.5 | 3327.9 | 3367.6 | 3410.2 | 3458.6 | 3499.8  | 3543.9  | 3573.3  |
| 15°   | 3264.7 | 3267.7 | 3286.8 | 3319.1 | 3357.3 | 3407.2 | 3464.5 | 3521.8 | 3570.3  | 3617.2  | 3656.9  |
| 17.5° | 3322.0 | 3326.4 | 3348.5 | 3385.2 | 3424.8 | 3483.6 | 3545.3 | 3609.9 | 3670.1  | 3723.0  | 3771.4  |
| 20°   | 3424.8 | 3429.2 | 3457.2 | 3496.9 | 3543.9 | 3604.0 | 3665.7 | 3733.3 | 3800.8  | 3856.7  | 3910.9  |
| 22.5° | 3570.3 | 3577.5 | 3604.0 | 3643.7 | 3696.6 | 3761.1 | 3834.6 | 3906.6 | 3971.1  | 4022.6  | 4071.0  |
| 25°   | 3761.1 | 3777.3 | 3802.3 | 3846.4 | 3902.2 | 3960.8 | 4040.2 | 4113.6 | 4175.4  | 4223.8  | 4259.0  |
| 27.5° | 4031.3 | 4053.4 | 4072.5 | 4115.1 | 4169.5 | 4225.3 | 4304.6 | 4369.2 | 4427.9  | 4474.9  | 4501.4  |
| 30°   | 4389.7 | 4411.8 | 4430.9 | 4472.0 | 4521.9 | 4574.8 | 4649.6 | 4707.0 | 4743.7  | 4780.4  | 4778.9  |
| 32.5° | 4824.5 | 4848.0 | 4855.3 | 4899.4 | 4950.7 | 5008.0 | 5075.6 | 5107.9 | 5137.3  | 5141.6  | 5115.2  |
| 35°   | 5310.5 | 5322.3 | 5351.7 | 5410.4 | 5469.2 | 5516.2 | 5580.9 | 5597.0 | 5597.0  | 5575.0  | 5516.2  |
| 37.5° | 5843.7 | 5851.1 | 5892.2 | 5958.2 | 6018.4 | 6066.9 | 6111.0 | 6143.3 | 6127.2  | 6080.2  | 5981.7  |
| 40°   | 6428.2 | 6441.4 | 6500.2 | 6559.0 | 6626.5 | 6672.0 | 6719.0 | 6724.9 | 6708.7  | 6639.6  | 6506.1  |
| 42.5° | 6986.2 | 6998.0 | 7056.7 | 7149.3 | 7237.5 | 7300.6 | 7344.6 | 7353.4 | 7302.1  | 7238.9  | 7072.9  |
| 45°   | 7466.6 | 7497.4 | 7573.8 | 7682.4 | 7810.2 | 7899.8 | 7960.0 | 7985.0 | 7939.5  | 7857.2  | 7664.7  |
| 47.5° | 7846.9 | 7877.7 | 7986.5 | 8115.7 | 8274.3 | 8419.6 | 8519.5 | 8572.4 | 8560.7  | 8498.9  | 8289.0  |
| 50°   | 8125.9 | 8155.3 | 8272.8 | 8431.4 | 8616.5 | 8797.1 | 8967.5 | 9093.7 | 9137.8  | 9109.9  | 8917.5  |
| 52.5° | 8158.3 | 8206.7 | 8344.7 | 8557.7 | 8798.5 | 9045.3 | 9287.6 | 9502.1 | 9647.5  | 9669.5  | 9527.0  |
| 55°   | 7707.3 | 7755.9 | 7946.8 | 8262.5 | 8620.9 | 9023.2 | 9410.9 | 9772.2 | 10058.6 | 10205.5 | 10130.6 |
| 57.5° | 6644.0 | 6730.7 | 6932.0 | 7302.1 | 7829.3 | 8431.4 | 9049.7 | 9691.6 | 10274.5 | 10663.7 | 10738.6 |
| 60°   | 5091.7 | 5194.5 | 5397.2 | 5790.8 | 6378.2 | 7096.4 | 7921.9 | 8870.5 | 9900.1  | 10775.3 | 11298.2 |
| 62.5° | 3266.2 | 3363.2 | 3576.2 | 3918.2 | 4397.0 | 5175.5 | 6061.0 | 7187.5 | 8571.0  | 9952.9  | 11198.3 |
| 65°   | 1678.7 | 1731.5 | 1843.1 | 2050.2 | 2423.3 | 3004.8 | 3799.4 | 4922.9 | 6504.5  | 8209.6  | 10010.3 |
| 67.5° | 1063.3 | 1073.6 | 1098.5 | 1127.9 | 1223.3 | 1424.5 | 1794.7 | 2495.2 | 3796.4  | 5575.0  | 7682.4  |
| 70°   | 919.4  | 919.4  | 907.6  | 903.2  | 914.9  | 942.9  | 1000.2 | 1163.2 | 1602.3  | 2646.5  | 4430.9  |
| 72.5° | 841.6  | 832.7  | 812.2  | 796.0  | 793.1  | 793.1  | 804.8  | 829.9  | 900.3   | 1078.0  | 1734.5  |
| 75°   | 775.4  | 750.5  | 722.5  | 703.5  | 696.1  | 688.8  | 687.4  | 691.7  | 706.4   | 734.3   | 828.3   |
| 77.5° | 694.7  | 662.3  | 630.0  | 611.0  | 602.1  | 591.8  | 583.0  | 572.7  | 565.4   | 574.2   | 615.3   |
| 80°   | 597.7  | 561.0  | 536.0  | 524.3  | 515.4  | 500.9  | 481.8  | 464.2  | 448.0   | 445.0   | 470.0   |
| 82.5° | 481.8  | 439.1  | 440.7  | 445.0  | 428.9  | 408.3  | 387.8  | 368.6  | 340.7   | 326.0   | 340.7   |
| 85°   | 389.2  | 367.1  | 356.8  | 384.8  | 361.3  | 330.4  | 298.2  | 264.4  | 220.2   | 185.0   | 201.2   |
| 87.5° | 151.3  | 151.3  | 226.1  | 348.1  | 312.8  | 255.5  | 218.8  | 186.5  | 116.1   | 89.6    | 91.0    |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3446.9  | 3446.9  | 3446.9  | 3446.9  | 3446.9  | 3446.9  | 3446.9  | 3446.9  |
| 2.5°  | 3452.7  | 3455.7  | 3454.2  | 3452.7  | 3452.7  | 3451.3  | 3452.7  | 3452.7  |
| 5°    | 3479.2  | 3486.6  | 3486.6  | 3489.5  | 3489.5  | 3491.0  | 3492.4  | 3491.0  |
| 7.5°  | 3518.8  | 3532.1  | 3540.9  | 3551.2  | 3552.6  | 3554.1  | 3557.1  | 3554.1  |
| 10°   | 3558.5  | 3584.9  | 3604.0  | 3623.1  | 3631.9  | 3634.8  | 3637.8  | 3637.8  |
| 12.5° | 3608.4  | 3645.1  | 3678.9  | 3712.7  | 3728.9  | 3737.6  | 3737.6  | 3743.6  |
| 15°   | 3690.7  | 3727.4  | 3767.0  | 3812.6  | 3840.5  | 3855.1  | 3859.6  | 3859.6  |
| 17.5° | 3806.7  | 3839.1  | 3872.8  | 3916.8  | 3952.1  | 3971.1  | 3975.6  | 3974.1  |
| 20°   | 3941.8  | 3972.6  | 3991.8  | 4019.6  | 4050.5  | 4072.5  | 4078.4  | 4078.4  |
| 22.5° | 4096.0  | 4113.6  | 4116.6  | 4125.4  | 4150.3  | 4179.7  | 4193.0  | 4195.9  |
| 25°   | 4266.3  | 4270.7  | 4259.0  | 4259.0  | 4275.2  | 4303.0  | 4316.3  | 4317.8  |
| 27.5° | 4486.6  | 4464.7  | 4435.3  | 4425.0  | 4435.3  | 4467.6  | 4483.8  | 4489.6  |
| 30°   | 4761.3  | 4708.4  | 4640.9  | 4604.1  | 4598.2  | 4640.9  | 4670.3  | 4674.6  |
| 32.5° | 5075.6  | 4999.2  | 4909.7  | 4834.7  | 4815.6  | 4842.1  | 4877.4  | 4875.8  |
| 35°   | 5448.6  | 5357.5  | 5249.0  | 5153.4  | 5109.4  | 5135.8  | 5185.8  | 5191.6  |
| 37.5° | 5878.9  | 5759.9  | 5635.1  | 5514.8  | 5445.7  | 5453.0  | 5505.9  | 5523.5  |
| 40°   | 6359.2  | 6205.0  | 6047.8  | 5886.3  | 5787.9  | 5768.8  | 5833.4  | 5843.7  |
| 42.5° | 6873.2  | 6674.9  | 6476.7  | 6277.0  | 6150.6  | 6121.2  | 6196.2  | 6191.7  |
| 45°   | 7421.0  | 7168.4  | 6936.4  | 6716.0  | 6566.3  | 6522.2  | 6583.9  | 6583.9  |
| 47.5° | 8009.9  | 7698.5  | 7422.4  | 7172.8  | 7009.7  | 6946.6  | 7005.3  | 7009.7  |
| 50°   | 8634.1  | 8303.6  | 7979.1  | 7701.4  | 7506.2  | 7425.4  | 7501.7  | 7513.5  |
| 52.5° | 9255.4  | 8933.7  | 8606.2  | 8289.0  | 8052.5  | 7954.1  | 8042.2  | 8080.4  |
| 55°   | 9885.3  | 9569.6  | 9256.8  | 8946.9  | 8666.5  | 8550.4  | 8644.4  | 8692.7  |
| 57.5° | 10550.6 | 10258.4 | 9960.3  | 9647.5  | 9377.1  | 9196.6  | 9296.5  | 9361.0  |
| 60°   | 11330.5 | 11080.8 | 10771.0 | 10425.8 | 10152.7 | 9969.1  | 10026.4 | 10083.6 |
| 62.5° | 11947.3 | 12044.2 | 11781.3 | 11381.9 | 11031.0 | 10795.9 | 10851.7 | 10911.9 |
| 65°   | 11649.2 | 12643.5 | 12877.0 | 12473.0 | 11987.0 | 11621.3 | 11597.8 | 11628.6 |
| 67.5° | 9737.0  | 11668.3 | 13076.7 | 13461.5 | 13054.7 | 12546.6 | 12452.5 | 12498.0 |
| 70°   | 6513.4  | 8919.1  | 11403.9 | 13254.4 | 13746.4 | 13549.6 | 13457.0 | 13485.0 |
| 72.5° | 3128.2  | 5194.5  | 7736.7  | 10196.7 | 11694.7 | 12382.1 | 12602.3 | 12709.6 |
| 75°   | 1144.1  | 2061.9  | 3728.9  | 5618.9  | 6783.6  | 7852.8  | 8550.4  | 8835.2  |
| 77.5° | 690.3   | 832.7   | 1191.0  | 1793.2  | 2031.1  | 2273.4  | 2179.4  | 2226.4  |
| 80°   | 511.2   | 577.2   | 653.6   | 734.3   | 760.8   | 760.8   | 731.4   | 707.9   |
| 82.5° | 358.4   | 401.0   | 437.7   | 481.8   | 493.5   | 471.5   | 387.8   | 308.4   |
| 85°   | 230.5   | 249.6   | 265.8   | 293.7   | 286.4   | 273.1   | 183.5   | 163.1   |
| 87.5° | 105.8   | 120.4   | 126.3   | 139.6   | 133.7   | 127.8   | 91.0    | 76.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)