

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: P192546

Luminaire Tested: **GAN-AF-08-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-5MQ-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39159.6 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 334  
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

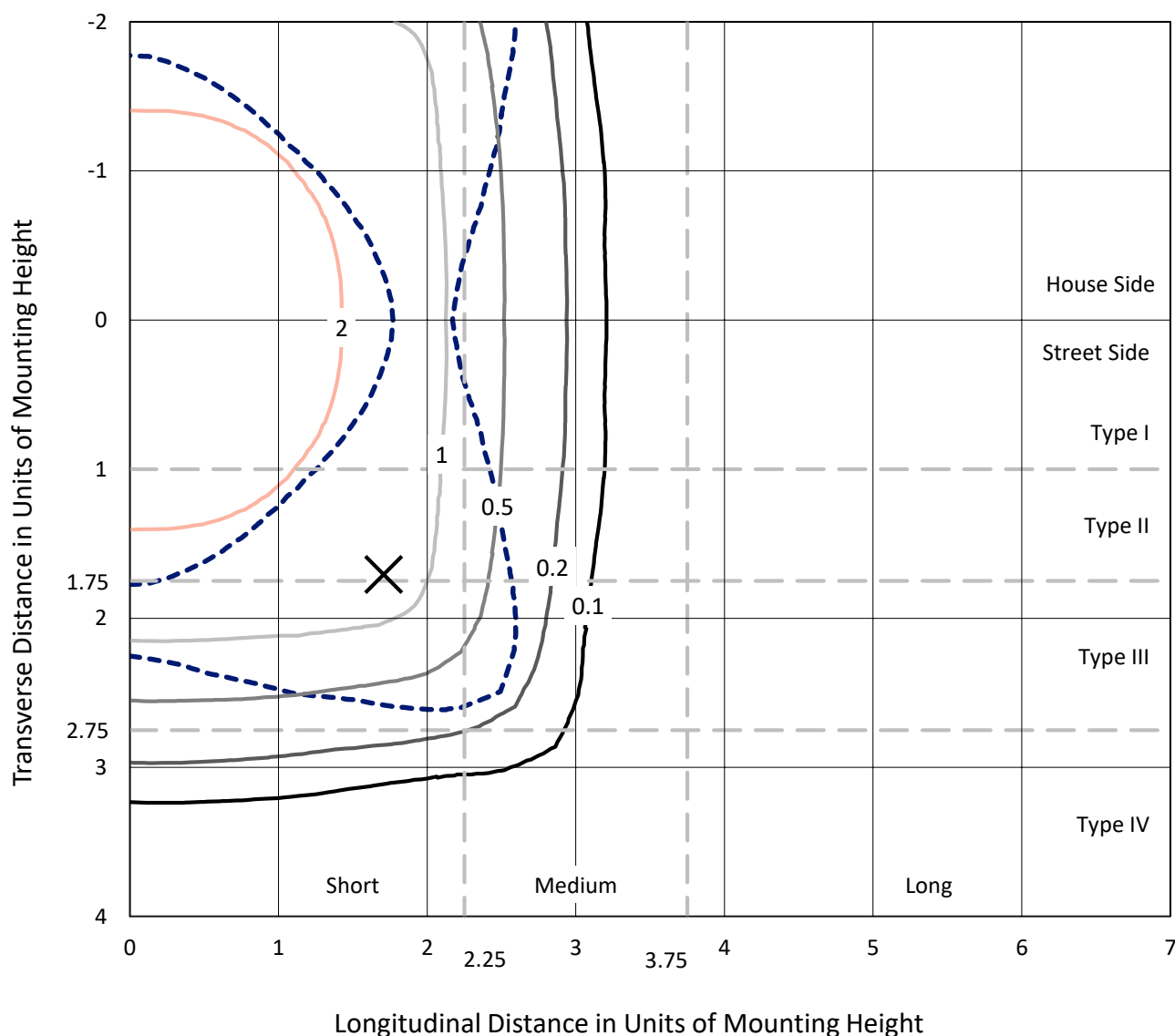


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

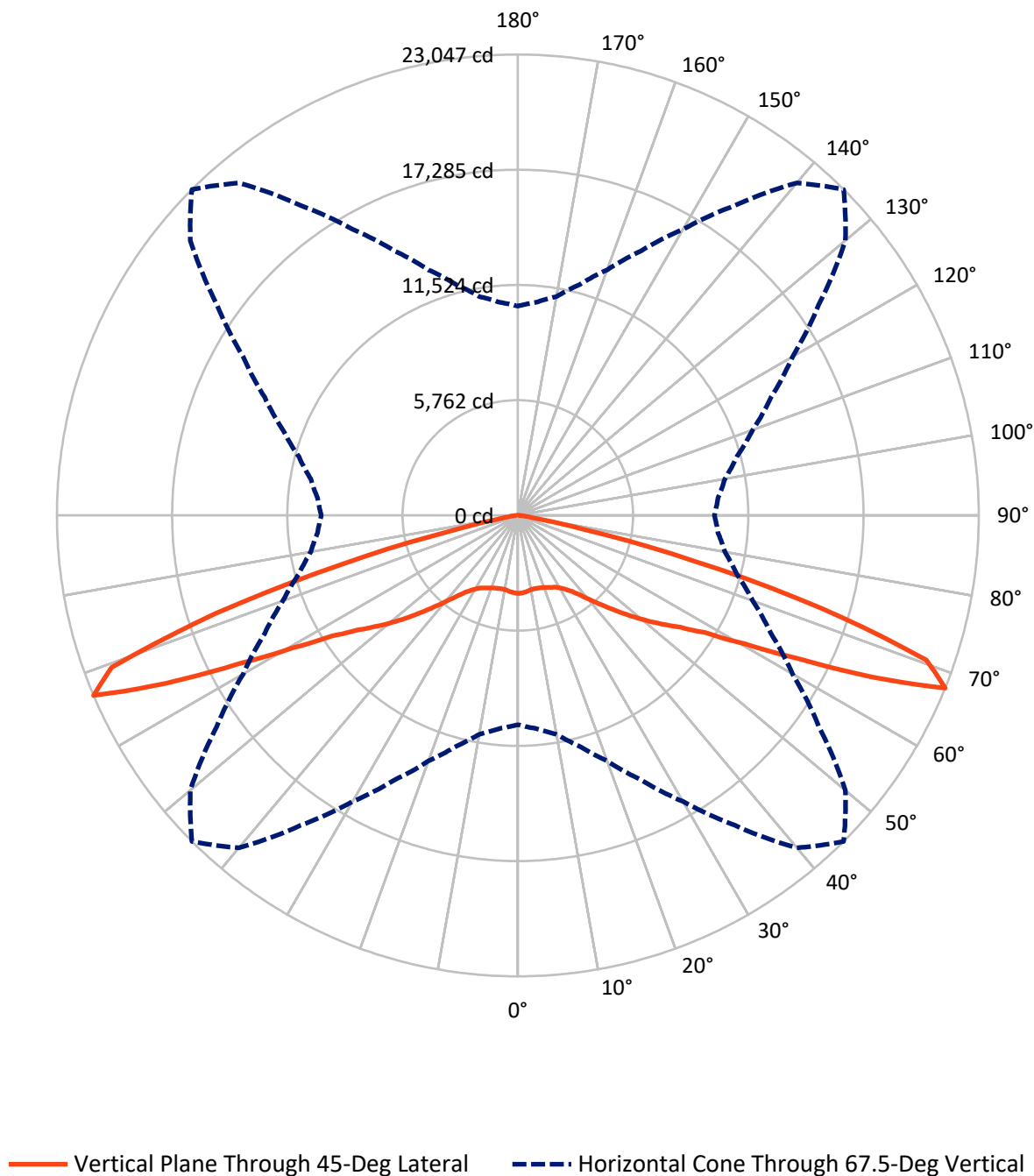


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19579.8  | 0.0    | 19579.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19579.8  | 0.0    | 19579.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39159.6  | 0.0    | 39159.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 365.2   | 0.9       |
| 10°-20°   | 1059.9  | 2.7       |
| 20°-30°   | 1801.8  | 4.6       |
| 30°-40°   | 2945.4  | 7.5       |
| 40°-50°   | 5258.0  | 13.4      |
| 50°-60°   | 8865.1  | 22.6      |
| 60°-70°   | 13757.3 | 35.1      |
| 70°-80°   | 4833.7  | 12.3      |
| 80°-90°   | 273.2   | 0.7       |
| 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°    | 39159.6 | 100.0     |
| 0°-180°   | 39159.6 | 100.0     |

**Coefficient of Utilization**



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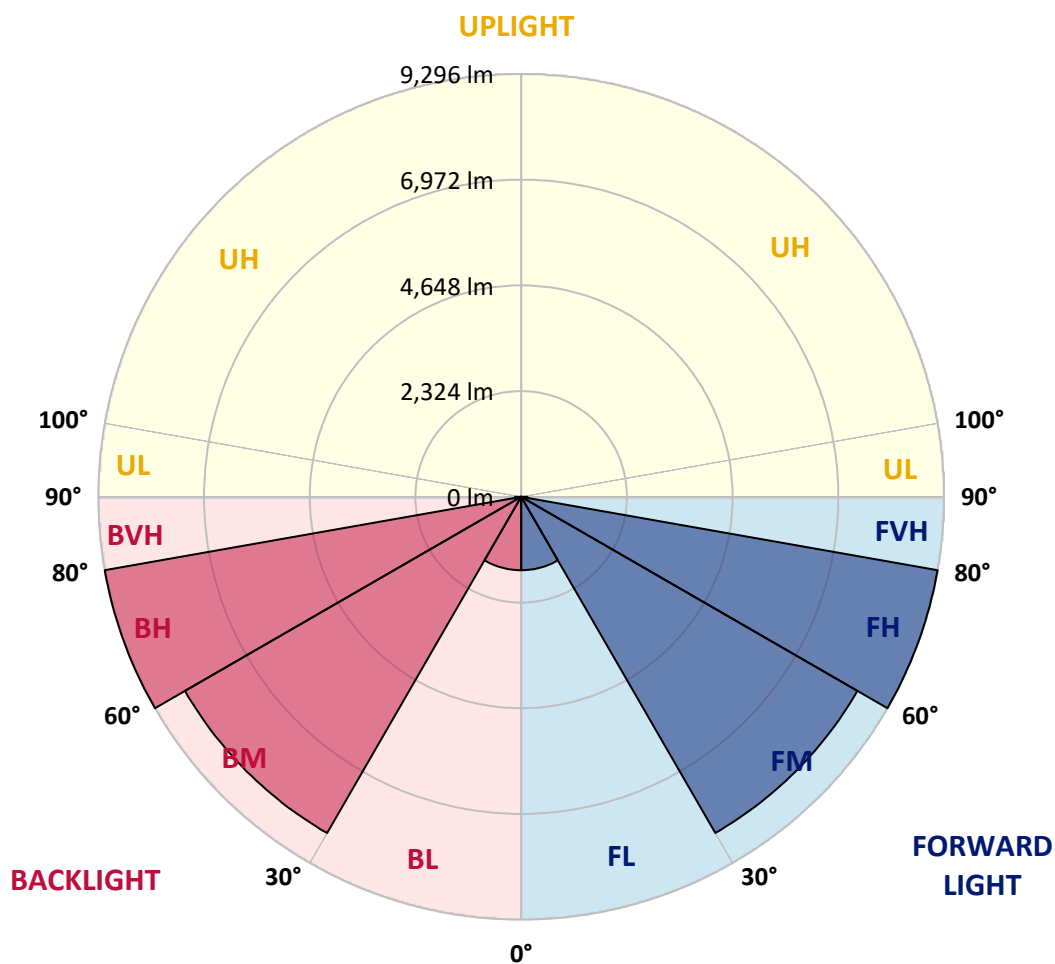
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1613.5 | 4.1       |                         |      |          |
| FM   | (30°-60°)   | 8534.2 | 21.8      |                         |      |          |
| FH   | (60°-80°)   | 9295.5 | 23.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 136.6  | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1613.5 | 4.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 8534.2 | 21.8      | B5                      |      |          |
| BH   | (60°-80°)   | 9295.5 | 23.7      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 136.6  | 0.3       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  |
| 2.5°  | 3888.0  | 3891.6  | 3891.6  | 3891.6  | 3889.8  | 3889.8  | 3886.3  | 3889.8  | 3888.0  | 3882.6  | 3884.3  |
| 5°    | 3855.6  | 3859.1  | 3859.1  | 3857.4  | 3862.8  | 3861.0  | 3855.6  | 3859.1  | 3857.4  | 3853.8  | 3855.6  |
| 7.5°  | 3808.8  | 3814.1  | 3814.1  | 3812.4  | 3817.7  | 3816.0  | 3812.4  | 3814.1  | 3814.1  | 3808.8  | 3808.8  |
| 10°   | 3756.6  | 3760.1  | 3760.1  | 3758.3  | 3767.4  | 3767.4  | 3765.5  | 3771.0  | 3772.7  | 3767.4  | 3763.8  |
| 12.5° | 3707.9  | 3713.2  | 3713.2  | 3720.5  | 3729.6  | 3733.2  | 3742.1  | 3749.3  | 3756.6  | 3754.8  | 3747.6  |
| 15°   | 3679.1  | 3682.7  | 3689.9  | 3699.0  | 3713.2  | 3726.0  | 3740.4  | 3756.6  | 3771.0  | 3774.6  | 3763.8  |
| 17.5° | 3661.1  | 3666.5  | 3677.3  | 3689.9  | 3709.7  | 3731.3  | 3752.9  | 3774.6  | 3794.3  | 3801.5  | 3789.0  |
| 20°   | 3655.7  | 3659.3  | 3670.1  | 3691.8  | 3718.7  | 3751.2  | 3781.8  | 3807.0  | 3834.0  | 3842.9  | 3834.0  |
| 22.5° | 3666.5  | 3673.8  | 3686.3  | 3711.5  | 3747.6  | 3789.0  | 3824.9  | 3859.1  | 3893.5  | 3909.7  | 3897.1  |
| 25°   | 3715.2  | 3722.4  | 3738.6  | 3771.0  | 3810.5  | 3853.8  | 3895.2  | 3934.9  | 3965.4  | 3981.6  | 3972.6  |
| 27.5° | 3805.2  | 3814.1  | 3834.0  | 3866.3  | 3909.7  | 3956.5  | 4001.5  | 4033.9  | 4059.1  | 4064.5  | 4053.7  |
| 30°   | 3940.2  | 3960.1  | 3983.5  | 4019.4  | 4069.9  | 4109.6  | 4154.6  | 4183.3  | 4214.0  | 4214.0  | 4205.0  |
| 32.5° | 4151.0  | 4170.8  | 4196.0  | 4230.2  | 4269.8  | 4313.0  | 4352.7  | 4377.8  | 4410.2  | 4412.1  | 4390.5  |
| 35°   | 4466.1  | 4475.0  | 4496.7  | 4518.3  | 4554.4  | 4592.1  | 4626.4  | 4642.5  | 4669.6  | 4671.4  | 4651.6  |
| 37.5° | 4882.0  | 4883.9  | 4898.3  | 4905.5  | 4937.9  | 4979.3  | 5011.7  | 5022.5  | 5047.8  | 5044.2  | 5024.4  |
| 40°   | 5366.5  | 5375.5  | 5380.9  | 5391.7  | 5426.0  | 5465.5  | 5499.8  | 5505.1  | 5532.3  | 5526.8  | 5501.5  |
| 42.5° | 5926.6  | 5930.1  | 5960.7  | 5977.0  | 6009.4  | 6029.3  | 6072.4  | 6077.9  | 6110.3  | 6095.8  | 6067.0  |
| 45°   | 6555.0  | 6587.5  | 6616.3  | 6648.8  | 6683.0  | 6706.4  | 6740.5  | 6733.3  | 6755.0  | 6733.3  | 6717.2  |
| 47.5° | 7215.9  | 7239.4  | 7304.2  | 7354.7  | 7410.5  | 7430.2  | 7478.9  | 7457.3  | 7478.9  | 7448.3  | 7442.8  |
| 50°   | 7943.4  | 7984.8  | 8040.7  | 8098.4  | 8157.9  | 8190.2  | 8253.2  | 8226.2  | 8255.1  | 8226.2  | 8210.1  |
| 52.5° | 8660.2  | 8671.1  | 8793.5  | 8878.2  | 8961.0  | 8998.8  | 9036.7  | 9024.0  | 9025.8  | 9024.0  | 9007.8  |
| 55°   | 9341.0  | 9366.1  | 9488.6  | 9603.9  | 9748.0  | 9854.2  | 9919.0  | 9911.8  | 9895.6  | 9879.4  | 9852.4  |
| 57.5° | 10108.1 | 10133.4 | 10273.7 | 10416.0 | 10579.9 | 10731.2 | 10862.7 | 10997.7 | 11049.9 | 11064.3 | 11004.9 |
| 60°   | 11145.4 | 11143.6 | 11330.8 | 11503.8 | 11737.8 | 11963.1 | 12251.1 | 12544.6 | 12881.4 | 13038.1 | 12831.0 |
| 62.5° | 12200.7 | 12243.9 | 12514.0 | 12820.2 | 13302.8 | 13772.7 | 14304.1 | 14826.3 | 15359.3 | 15793.3 | 15332.4 |
| 65°   | 12074.7 | 12240.4 | 12642.0 | 13335.2 | 14226.6 | 15285.5 | 16430.9 | 17642.8 | 18737.8 | 19490.5 | 18645.8 |
| 67.5° | 10464.7 | 10700.7 | 11109.4 | 11952.2 | 13066.9 | 14594.0 | 16517.3 | 18914.2 | 21700.1 | 23047.1 | 21377.7 |
| 70°   | 7585.1  | 7851.7  | 8280.2  | 9103.3  | 10207.1 | 11658.6 | 13747.6 | 16625.3 | 20313.5 | 21671.3 | 19832.6 |
| 72.5° | 3774.6  | 3918.6  | 4183.3  | 4707.4  | 5542.9  | 6720.7  | 8615.2  | 11381.3 | 14644.4 | 15890.6 | 14210.5 |
| 75°   | 1282.1  | 1348.8  | 1393.8  | 1564.9  | 1829.6  | 2292.5  | 3234.3  | 4975.6  | 7590.6  | 9099.6  | 7482.5  |
| 77.5° | 740.1   | 742.0   | 772.6   | 803.2   | 848.2   | 898.6   | 1024.7  | 1345.2  | 2326.6  | 3304.5  | 2407.7  |
| 80°   | 479.0   | 477.3   | 502.5   | 525.9   | 556.4   | 581.7   | 588.9   | 623.1   | 718.5   | 851.7   | 761.7   |
| 82.5° | 248.6   | 279.1   | 335.0   | 365.6   | 423.2   | 434.0   | 419.5   | 407.0   | 430.4   | 446.7   | 457.4   |
| 85°   | 136.9   | 118.9   | 178.3   | 230.5   | 255.6   | 259.3   | 259.3   | 245.0   | 253.9   | 248.6   | 270.1   |
| 87.5° | 63.1    | 57.6    | 70.3    | 113.4   | 120.6   | 102.6   | 108.0   | 95.5    | 68.4    | 66.6    | 75.6    |
| 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°    | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  | 3902.4  |
| 2.5°  | 3884.3  | 3886.3  | 3886.3  | 3891.6  | 3893.5  | 3897.1  | 3900.7  | 3902.4  |
| 5°    | 3853.8  | 3859.1  | 3855.6  | 3861.0  | 3861.0  | 3864.6  | 3864.6  | 3866.3  |
| 7.5°  | 3808.8  | 3814.1  | 3814.1  | 3814.1  | 3812.4  | 3817.7  | 3817.7  | 3817.7  |
| 10°   | 3761.9  | 3765.5  | 3763.8  | 3760.1  | 3756.6  | 3761.9  | 3760.1  | 3758.3  |
| 12.5° | 3747.6  | 3738.6  | 3731.3  | 3727.7  | 3720.5  | 3722.4  | 3716.9  | 3716.9  |
| 15°   | 3756.6  | 3740.4  | 3727.7  | 3722.4  | 3715.2  | 3711.5  | 3707.9  | 3709.7  |
| 17.5° | 3780.0  | 3760.1  | 3744.0  | 3734.9  | 3726.0  | 3720.5  | 3713.2  | 3715.2  |
| 20°   | 3821.4  | 3798.0  | 3774.6  | 3756.6  | 3740.4  | 3731.3  | 3726.0  | 3724.1  |
| 22.5° | 3882.6  | 3848.4  | 3814.1  | 3787.2  | 3765.5  | 3752.9  | 3747.6  | 3744.0  |
| 25°   | 3952.9  | 3915.0  | 3875.4  | 3844.9  | 3823.2  | 3807.0  | 3796.2  | 3796.2  |
| 27.5° | 4041.1  | 4010.5  | 3974.5  | 3938.5  | 3918.6  | 3902.4  | 3895.2  | 3891.6  |
| 30°   | 4188.8  | 4159.9  | 4131.1  | 4096.9  | 4071.6  | 4055.4  | 4042.9  | 4032.1  |
| 32.5° | 4377.8  | 4354.4  | 4331.0  | 4305.8  | 4282.4  | 4260.8  | 4241.0  | 4231.9  |
| 35°   | 4644.4  | 4626.4  | 4610.2  | 4581.3  | 4572.3  | 4559.7  | 4548.9  | 4539.9  |
| 37.5° | 5011.7  | 5004.5  | 5004.5  | 4973.9  | 4966.7  | 4961.4  | 4950.5  | 4952.2  |
| 40°   | 5494.3  | 5501.5  | 5492.6  | 5481.7  | 5476.4  | 5462.0  | 5462.0  | 5474.6  |
| 42.5° | 6065.2  | 6070.7  | 6090.4  | 6072.4  | 6092.3  | 6074.3  | 6063.5  | 6072.4  |
| 45°   | 6727.9  | 6747.8  | 6787.4  | 6769.3  | 6781.9  | 6751.3  | 6713.6  | 6715.3  |
| 47.5° | 7471.7  | 7489.7  | 7505.9  | 7493.3  | 7495.0  | 7444.7  | 7394.2  | 7381.7  |
| 50°   | 8244.2  | 8251.5  | 8260.4  | 8242.4  | 8246.1  | 8190.2  | 8132.6  | 8134.4  |
| 52.5° | 9007.8  | 9042.0  | 9078.1  | 9029.4  | 9018.6  | 8955.6  | 8874.6  | 8842.2  |
| 55°   | 9881.2  | 9929.8  | 9888.4  | 9803.8  | 9719.1  | 9634.5  | 9528.3  | 9510.3  |
| 57.5° | 10958.1 | 10875.2 | 10745.6 | 10585.4 | 10468.2 | 10349.5 | 10241.4 | 10196.4 |
| 60°   | 12456.4 | 12144.8 | 11910.8 | 11673.0 | 11523.6 | 11377.7 | 11235.4 | 11213.9 |
| 62.5° | 14574.2 | 14035.8 | 13569.4 | 13077.7 | 12676.1 | 12362.8 | 12112.5 | 12042.2 |
| 65°   | 17228.6 | 15955.4 | 14851.5 | 13821.4 | 12926.5 | 12251.1 | 11826.1 | 11638.9 |
| 67.5° | 18370.5 | 15856.4 | 13963.7 | 12501.5 | 11330.8 | 10513.3 | 10054.0 | 9825.3  |
| 70°   | 16142.7 | 13149.7 | 11091.4 | 9627.3  | 8561.2  | 7689.5  | 7273.6  | 7028.6  |
| 72.5° | 11105.7 | 8364.9  | 6614.4  | 5398.9  | 4547.2  | 3817.7  | 3529.6  | 3508.0  |
| 75°   | 4986.5  | 3302.7  | 2276.3  | 1754.0  | 1476.6  | 1284.1  | 1224.6  | 1179.6  |
| 77.5° | 1395.7  | 1031.9  | 920.2   | 860.9   | 803.2   | 736.5   | 711.3   | 716.7   |
| 80°   | 678.9   | 641.2   | 615.9   | 578.1   | 525.9   | 470.1   | 444.8   | 455.6   |
| 82.5° | 450.2   | 444.8   | 461.0   | 434.0   | 358.4   | 304.4   | 255.6   | 234.2   |
| 85°   | 273.7   | 277.3   | 282.8   | 284.5   | 241.4   | 169.3   | 115.3   | 129.7   |
| 87.5° | 108.0   | 124.2   | 135.1   | 140.5   | 131.4   | 81.1    | 64.8    | 66.6    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)