

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: P192747

Luminaire Tested: **GAN-AF-09-LED-U-RW-7030-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192747  
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-09-LED-U-RW-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 42506.2 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 374  
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

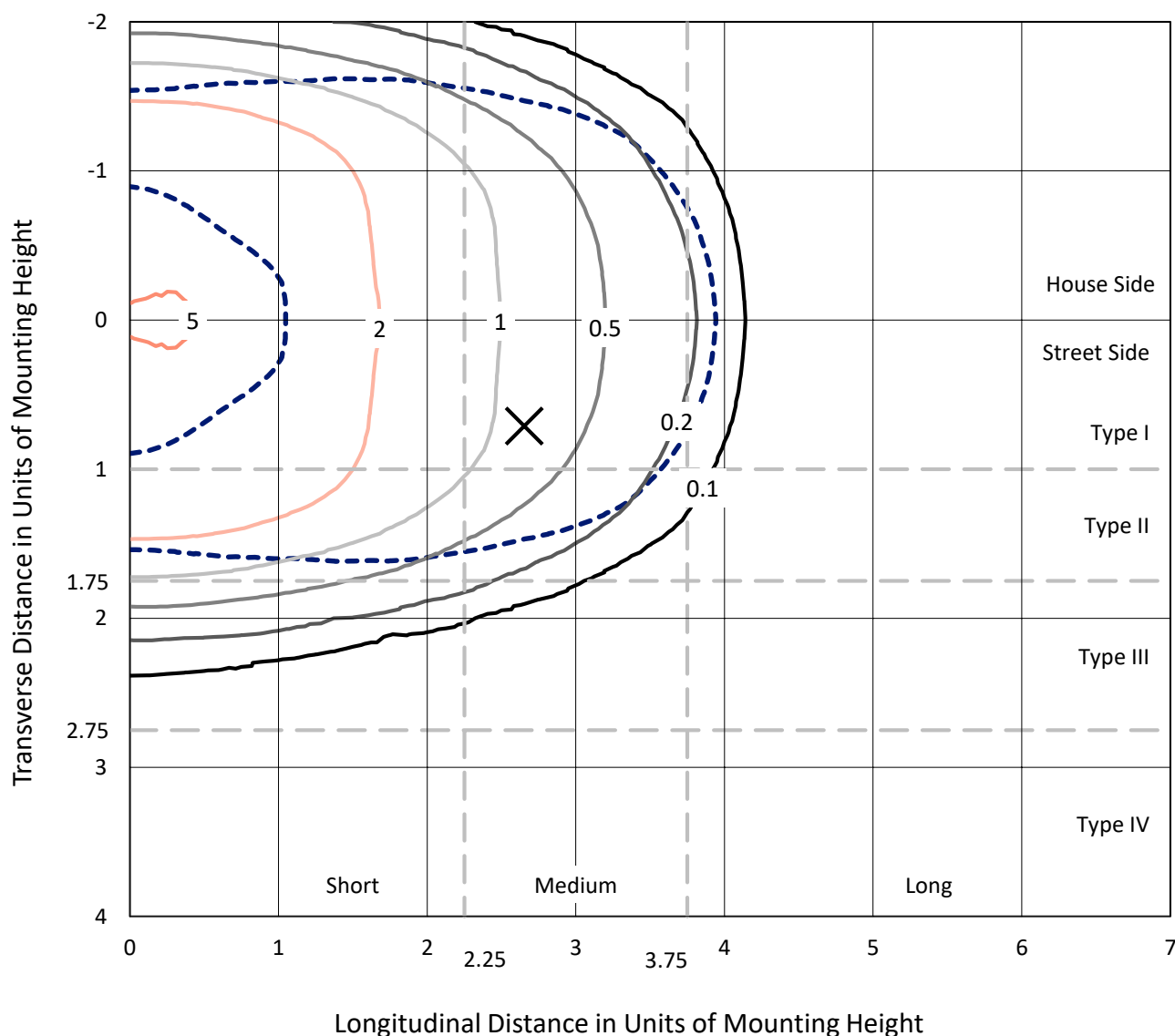


REPORT NUMBER: P192747

CATALOG NUMBER: GAN-AF-09-LED-U-RW-7030-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

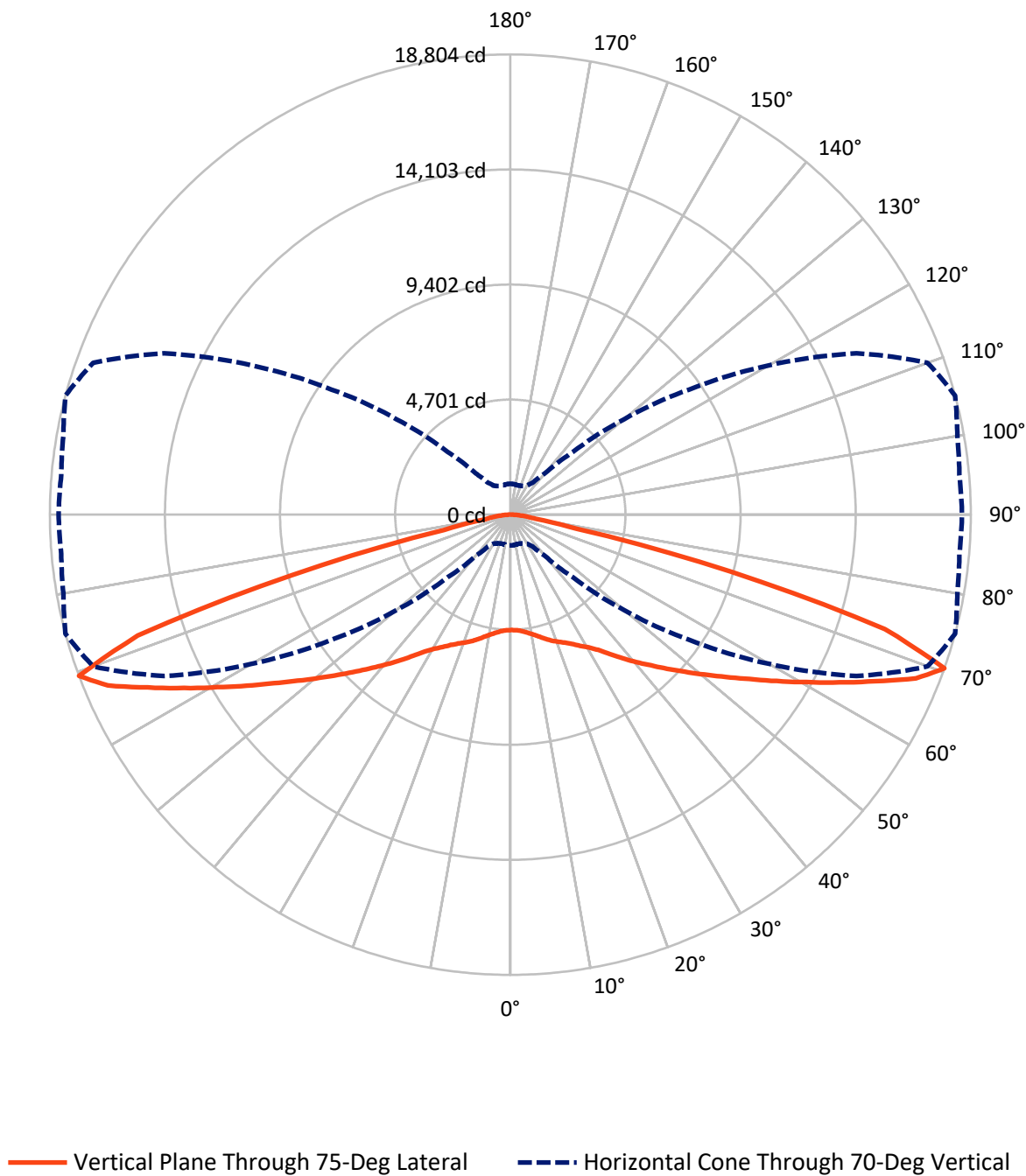


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P192747

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21253.1  | 0.0    | 21253.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21253.1  | 0.0    | 21253.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 42506.2  | 0.0    | 42506.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 452.2   | 1.1       |
| 10°-20°   | 1405.1  | 3.3       |
| 20°-30°   | 2644.5  | 6.2       |
| 30°-40°   | 4682.9  | 11.0      |
| 40°-50°   | 7831.4  | 18.4      |
| 50°-60°   | 10913.0 | 25.7      |
| 60°-70°   | 10120.1 | 23.8      |
| 70°-80°   | 4033.1  | 9.5       |
| 80°-90°   | 424.0   | 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°    | 42506.2 | 100.0     |
| 0°-180°   | 42506.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P192747

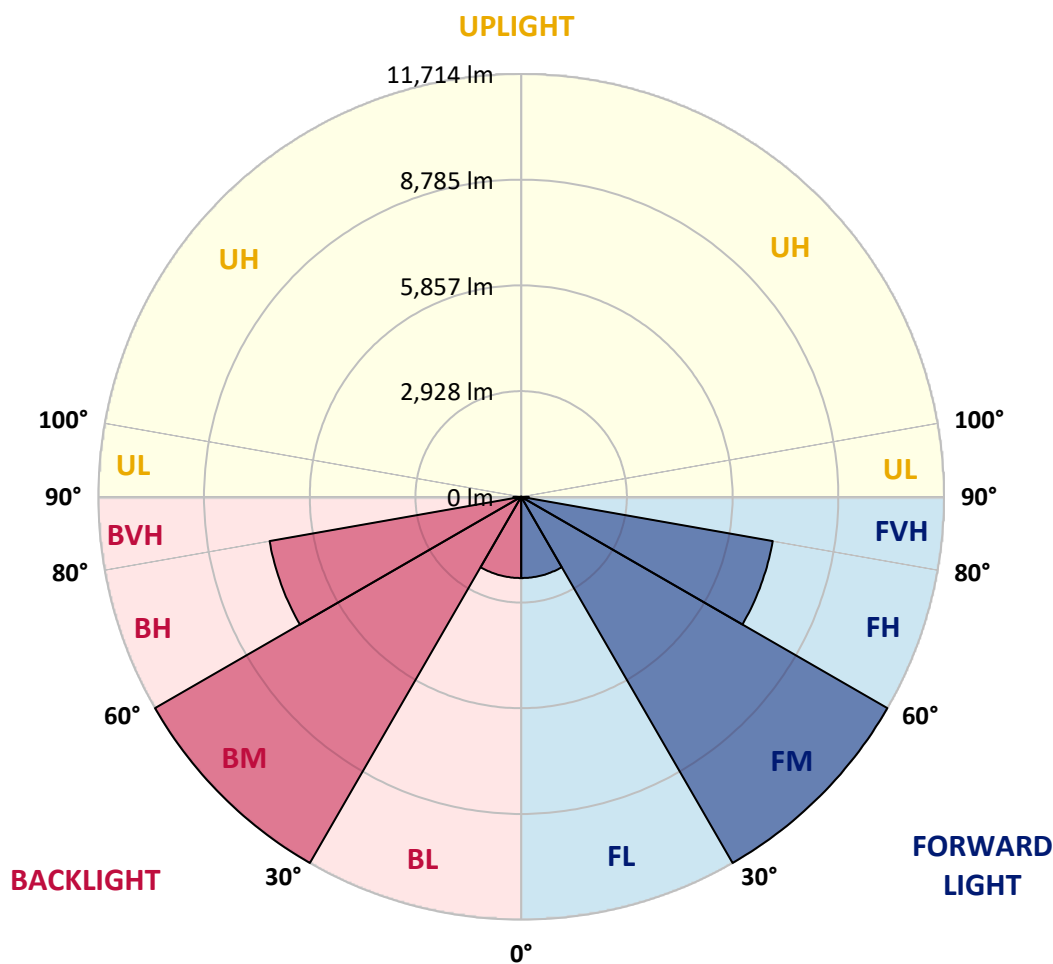
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2250.9  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 11713.7 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 7076.6  | 16.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 212.0   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2250.9  | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 11713.7 | 27.6      | B5                      |      |         |
| BH   | (60°-80°)   | 7076.6  | 16.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 212.0   | 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





REPORT NUMBER: P192747

CATALOG NUMBER: GAN-AF-09-LED-U-RW-7030-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  |
| 2.5°  | 4706.9  | 4702.8  | 4706.9  | 4704.9  | 4708.8  | 4708.8  | 4712.9  | 4721.0  | 4721.0  | 4727.0  | 4725.0  |
| 5°    | 4660.7  | 4658.7  | 4664.8  | 4670.8  | 4676.8  | 4688.9  | 4700.9  | 4718.9  | 4733.0  | 4743.1  | 4753.1  |
| 7.5°  | 4570.4  | 4570.4  | 4578.3  | 4592.3  | 4606.5  | 4632.6  | 4660.7  | 4696.8  | 4733.0  | 4763.1  | 4789.3  |
| 10°   | 4495.9  | 4500.0  | 4510.0  | 4534.2  | 4558.2  | 4598.4  | 4636.6  | 4688.9  | 4739.0  | 4789.3  | 4829.5  |
| 12.5° | 4451.8  | 4457.8  | 4476.0  | 4512.1  | 4552.2  | 4606.5  | 4664.8  | 4731.0  | 4787.3  | 4847.5  | 4887.7  |
| 15°   | 4465.9  | 4469.8  | 4495.9  | 4540.2  | 4592.3  | 4660.7  | 4739.0  | 4817.3  | 4883.7  | 4948.0  | 5002.2  |
| 17.5° | 4544.2  | 4550.2  | 4580.3  | 4630.5  | 4684.8  | 4765.2  | 4849.6  | 4938.0  | 5020.3  | 5092.6  | 5158.9  |
| 20°   | 4684.8  | 4690.8  | 4729.0  | 4783.3  | 4847.5  | 4929.9  | 5014.2  | 5106.7  | 5199.1  | 5275.4  | 5349.8  |
| 22.5° | 4883.7  | 4893.7  | 4929.9  | 4984.1  | 5056.4  | 5144.8  | 5245.3  | 5343.8  | 5432.2  | 5502.4  | 5568.7  |
| 25°   | 5144.8  | 5167.0  | 5201.1  | 5261.4  | 5337.7  | 5418.0  | 5526.6  | 5627.0  | 5711.3  | 5777.6  | 5825.8  |
| 27.5° | 5514.6  | 5544.6  | 5570.7  | 5629.0  | 5703.4  | 5779.7  | 5888.1  | 5976.5  | 6056.9  | 6121.1  | 6157.3  |
| 30°   | 6004.7  | 6034.8  | 6060.9  | 6117.2  | 6185.5  | 6257.9  | 6360.2  | 6438.5  | 6488.8  | 6539.0  | 6537.0  |
| 32.5° | 6599.3  | 6631.5  | 6641.5  | 6701.8  | 6772.1  | 6850.4  | 6942.8  | 6987.0  | 7027.2  | 7033.2  | 6997.1  |
| 35°   | 7264.2  | 7280.3  | 7320.5  | 7400.9  | 7481.2  | 7545.5  | 7633.8  | 7656.1  | 7656.1  | 7625.9  | 7545.5  |
| 37.5° | 7993.5  | 8003.6  | 8059.7  | 8150.2  | 8232.5  | 8298.8  | 8359.1  | 8403.3  | 8381.2  | 8317.0  | 8182.3  |
| 40°   | 8793.0  | 8811.1  | 8891.5  | 8971.9  | 9064.2  | 9126.5  | 9190.8  | 9198.9  | 9176.6  | 9082.2  | 8899.5  |
| 42.5° | 9556.5  | 9572.5  | 9652.8  | 9779.4  | 9900.0  | 9986.3  | 10046.6 | 10058.6 | 9988.4  | 9901.9  | 9674.9  |
| 45°   | 10213.3 | 10255.5 | 10360.0 | 10508.7 | 10683.5 | 10806.0 | 10888.3 | 10922.5 | 10860.3 | 10747.8 | 10484.5 |
| 47.5° | 10733.6 | 10775.8 | 10924.5 | 11101.3 | 11318.2 | 11517.1 | 11653.7 | 11726.0 | 11710.0 | 11625.6 | 11338.4 |
| 50°   | 11115.4 | 11155.5 | 11316.2 | 11533.2 | 11786.4 | 12033.4 | 12266.4 | 12439.1 | 12499.5 | 12461.3 | 12198.1 |
| 52.5° | 11159.5 | 11225.9 | 11414.7 | 11705.9 | 12035.5 | 12372.9 | 12704.4 | 12997.7 | 13196.6 | 13226.7 | 13031.9 |
| 55°   | 10542.8 | 10609.1 | 10870.2 | 11302.3 | 11792.4 | 12342.8 | 12873.2 | 13367.4 | 13759.1 | 13959.9 | 13857.6 |
| 57.5° | 9088.3  | 9206.8  | 9482.1  | 9988.4  | 10709.6 | 11533.2 | 12379.0 | 13256.9 | 14054.3 | 14586.7 | 14689.3 |
| 60°   | 6964.9  | 7105.5  | 7382.7  | 7921.2  | 8724.7  | 9707.1  | 10836.2 | 12133.9 | 13542.1 | 14739.4 | 15454.6 |
| 62.5° | 4467.8  | 4600.5  | 4891.7  | 5359.8  | 6014.7  | 7079.5  | 8290.8  | 9831.7  | 11724.1 | 13614.5 | 15318.0 |
| 65°   | 2296.2  | 2368.5  | 2521.1  | 2804.4  | 3314.7  | 4110.3  | 5197.0  | 6733.8  | 8897.5  | 11229.8 | 13692.8 |
| 67.5° | 1454.5  | 1468.6  | 1502.7  | 1542.8  | 1673.5  | 1948.6  | 2454.9  | 3413.2  | 5193.1  | 7625.9  | 10508.7 |
| 70°   | 1257.6  | 1257.6  | 1241.5  | 1235.5  | 1251.6  | 1289.7  | 1368.0  | 1591.1  | 2191.7  | 3620.1  | 6060.9  |
| 72.5° | 1151.1  | 1139.0  | 1110.9  | 1088.9  | 1084.8  | 1084.8  | 1100.9  | 1134.9  | 1231.5  | 1474.6  | 2372.6  |
| 75°   | 1060.7  | 1026.6  | 988.4   | 962.2   | 952.2   | 942.2   | 940.1   | 946.1   | 966.3   | 1004.4  | 1133.0  |
| 77.5° | 950.2   | 906.0   | 861.8   | 835.8   | 823.7   | 809.6   | 797.6   | 783.5   | 773.4   | 785.5   | 841.8   |
| 80°   | 817.6   | 767.4   | 733.2   | 717.2   | 705.2   | 685.0   | 659.0   | 634.8   | 612.7   | 608.7   | 642.9   |
| 82.5° | 659.0   | 600.7   | 602.7   | 608.7   | 586.6   | 558.6   | 530.4   | 504.2   | 466.1   | 446.0   | 466.1   |
| 85°   | 532.3   | 502.3   | 488.2   | 526.3   | 494.2   | 452.0   | 407.9   | 361.6   | 301.3   | 253.2   | 275.3   |
| 87.5° | 206.9   | 206.9   | 309.4   | 476.2   | 427.9   | 349.5   | 299.4   | 255.1   | 158.8   | 122.6   | 124.5   |
| 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°    | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  | 4715.0  |
| 2.5°  | 4722.9  | 4727.0  | 4725.0  | 4722.9  | 4722.9  | 4721.0  | 4722.9  | 4722.9  |
| 5°    | 4759.2  | 4769.1  | 4769.1  | 4773.2  | 4773.2  | 4775.1  | 4777.3  | 4775.1  |
| 7.5°  | 4813.4  | 4831.5  | 4843.5  | 4857.5  | 4859.6  | 4861.6  | 4865.7  | 4861.6  |
| 10°   | 4867.6  | 4903.8  | 4929.9  | 4956.0  | 4968.0  | 4972.1  | 4976.1  | 4976.1  |
| 12.5° | 4935.9  | 4986.1  | 5032.4  | 5078.6  | 5100.7  | 5112.7  | 5112.7  | 5120.8  |
| 15°   | 5048.5  | 5098.6  | 5152.8  | 5215.2  | 5253.3  | 5273.4  | 5279.4  | 5279.4  |
| 17.5° | 5207.1  | 5251.3  | 5297.6  | 5357.7  | 5406.0  | 5432.2  | 5438.2  | 5436.0  |
| 20°   | 5392.0  | 5434.1  | 5460.2  | 5498.4  | 5540.6  | 5570.7  | 5578.8  | 5578.8  |
| 22.5° | 5603.0  | 5627.0  | 5631.0  | 5643.0  | 5677.2  | 5717.4  | 5735.4  | 5739.5  |
| 25°   | 5835.9  | 5842.0  | 5825.8  | 5825.8  | 5848.0  | 5886.2  | 5904.3  | 5906.2  |
| 27.5° | 6137.2  | 6107.1  | 6066.9  | 6052.9  | 6066.9  | 6111.1  | 6133.3  | 6141.3  |
| 30°   | 6513.0  | 6440.7  | 6348.2  | 6297.9  | 6289.9  | 6348.2  | 6388.4  | 6394.4  |
| 32.5° | 6942.8  | 6838.3  | 6715.8  | 6613.4  | 6587.2  | 6623.4  | 6671.6  | 6669.6  |
| 35°   | 7453.1  | 7328.6  | 7179.9  | 7049.3  | 6989.0  | 7025.2  | 7093.4  | 7101.6  |
| 37.5° | 8041.7  | 7879.0  | 7708.2  | 7543.5  | 7449.1  | 7459.1  | 7531.5  | 7555.5  |
| 40°   | 8698.5  | 8487.7  | 8272.7  | 8051.8  | 7917.2  | 7891.0  | 7979.4  | 7993.5  |
| 42.5° | 9401.8  | 9130.6  | 8859.3  | 8586.1  | 8413.4  | 8373.2  | 8475.7  | 8469.6  |
| 45°   | 10151.1 | 9805.6  | 9488.1  | 9186.7  | 8981.8  | 8921.6  | 9006.0  | 9006.0  |
| 47.5° | 10956.6 | 10530.7 | 10153.0 | 9811.6  | 9588.6  | 9502.2  | 9582.6  | 9588.6  |
| 50°   | 11810.4 | 11358.4 | 10914.5 | 10534.8 | 10267.5 | 10157.1 | 10261.5 | 10277.6 |
| 52.5° | 12660.2 | 12220.2 | 11772.2 | 11338.4 | 11014.9 | 10880.2 | 11000.9 | 11053.1 |
| 55°   | 13522.0 | 13090.2 | 12662.2 | 12238.3 | 11854.6 | 11695.8 | 11824.5 | 11890.8 |
| 57.5° | 14432.0 | 14032.2 | 13624.5 | 13196.6 | 12826.9 | 12579.9 | 12716.4 | 12804.8 |
| 60°   | 15498.8 | 15157.3 | 14733.4 | 14261.3 | 13887.6 | 13636.5 | 13714.9 | 13793.2 |
| 62.5° | 16342.6 | 16475.1 | 16115.5 | 15569.1 | 15089.0 | 14767.6 | 14843.9 | 14926.2 |
| 65°   | 15934.7 | 17294.7 | 17614.2 | 17061.7 | 16396.7 | 15896.5 | 15864.5 | 15906.6 |
| 67.5° | 13319.1 | 15960.8 | 17887.4 | 18413.8 | 17857.3 | 17162.2 | 17033.6 | 17095.9 |
| 70°   | 8909.5  | 12200.1 | 15599.3 | 18130.5 | 18803.5 | 18534.3 | 18407.7 | 18445.9 |
| 72.5° | 4279.0  | 7105.5  | 10583.0 | 13947.9 | 15996.9 | 16937.2 | 17238.5 | 17385.3 |
| 75°   | 1564.9  | 2820.5  | 5100.7  | 7686.2  | 9279.2  | 10741.8 | 11695.8 | 12085.6 |
| 77.5° | 944.2   | 1139.0  | 1629.3  | 2452.9  | 2778.4  | 3109.8  | 2981.2  | 3045.5  |
| 80°   | 699.1   | 789.5   | 894.0   | 1004.4  | 1040.5  | 1040.5  | 1000.5  | 968.2   |
| 82.5° | 490.1   | 548.5   | 598.6   | 659.0   | 675.0   | 644.8   | 530.4   | 421.8   |
| 85°   | 315.4   | 341.6   | 363.7   | 401.7   | 391.7   | 373.6   | 251.1   | 223.0   |
| 87.5° | 144.7   | 164.8   | 172.7   | 190.8   | 182.8   | 174.9   | 124.5   | 104.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)