

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: P317294

Luminaire Tested: **GAN-SA0C-830-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-830-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56868 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
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: 24 FT



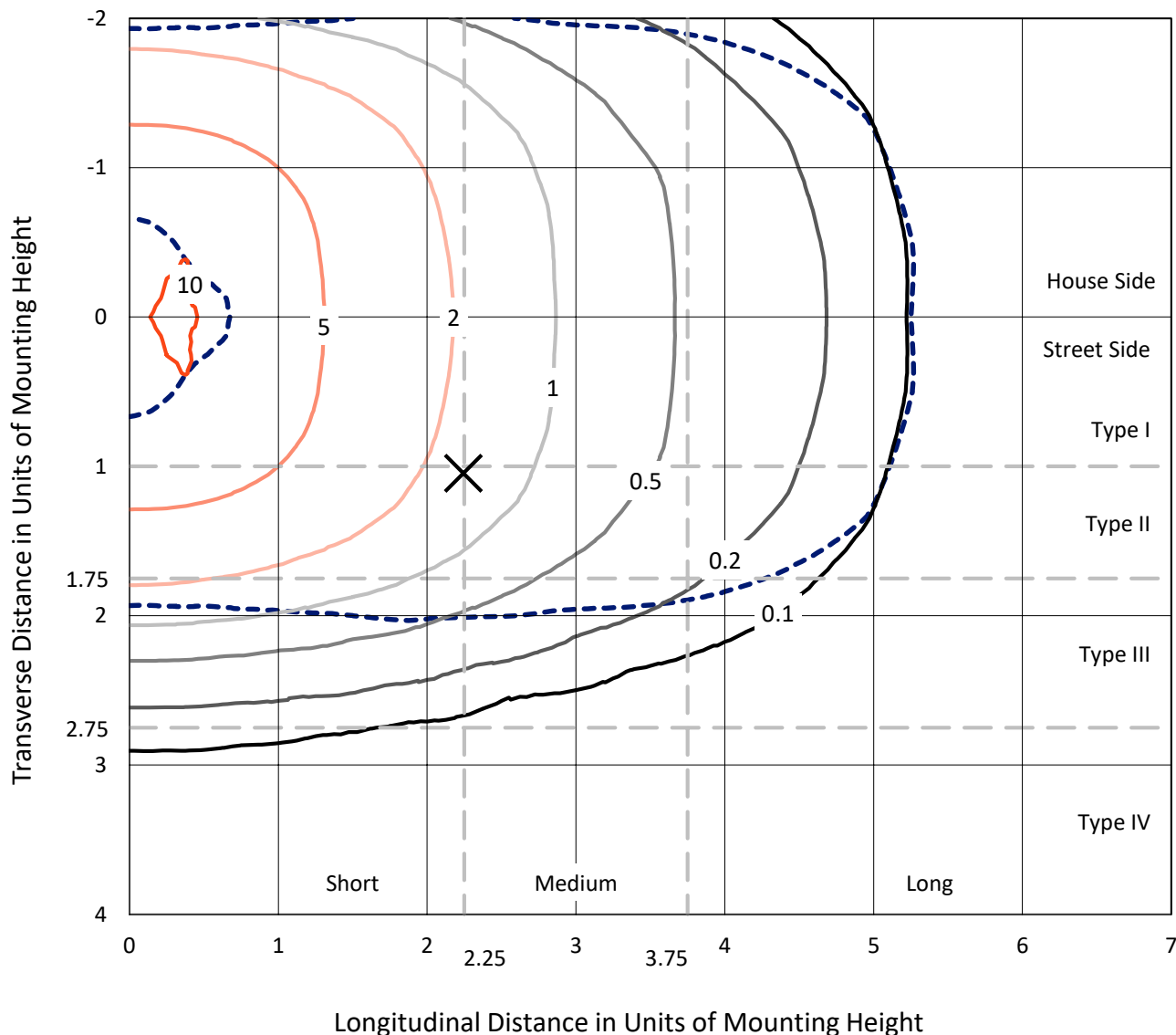
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CATALOG NUMBER: GAN-SA0C-830-U-RW

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

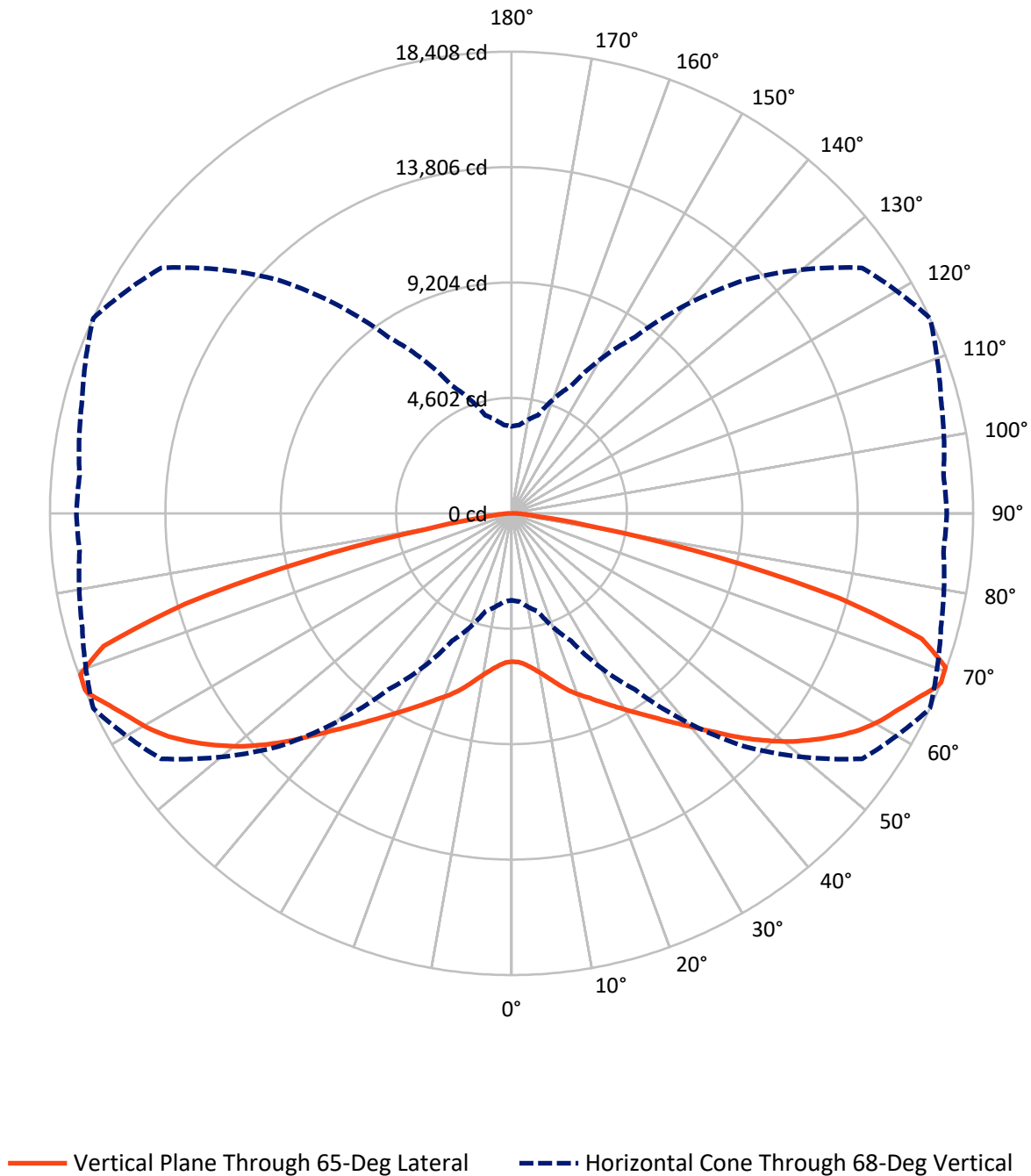


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 28434.0  | 0.0    | 28434.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 28434.0  | 0.0    | 28434.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 56868.0  | 0.0    | 56868.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 578.9   | 1.0       |
| 10°-20°   | 1938.5  | 3.4       |
| 20°-30°   | 3779.5  | 6.6       |
| 30°-40°   | 6349.3  | 11.2      |
| 40°-50°   | 10004.2 | 17.6      |
| 50°-60°   | 13378.9 | 23.5      |
| 60°-70°   | 13006.0 | 22.9      |
| 70°-80°   | 7109.7  | 12.5      |
| 80°-90°   | 723.1   | 1.3       |
| 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°    | 56868.0 | 100.0     |
| 0°-180°   | 56868.0 | 100.0     |

**Coefficient of Utilization**



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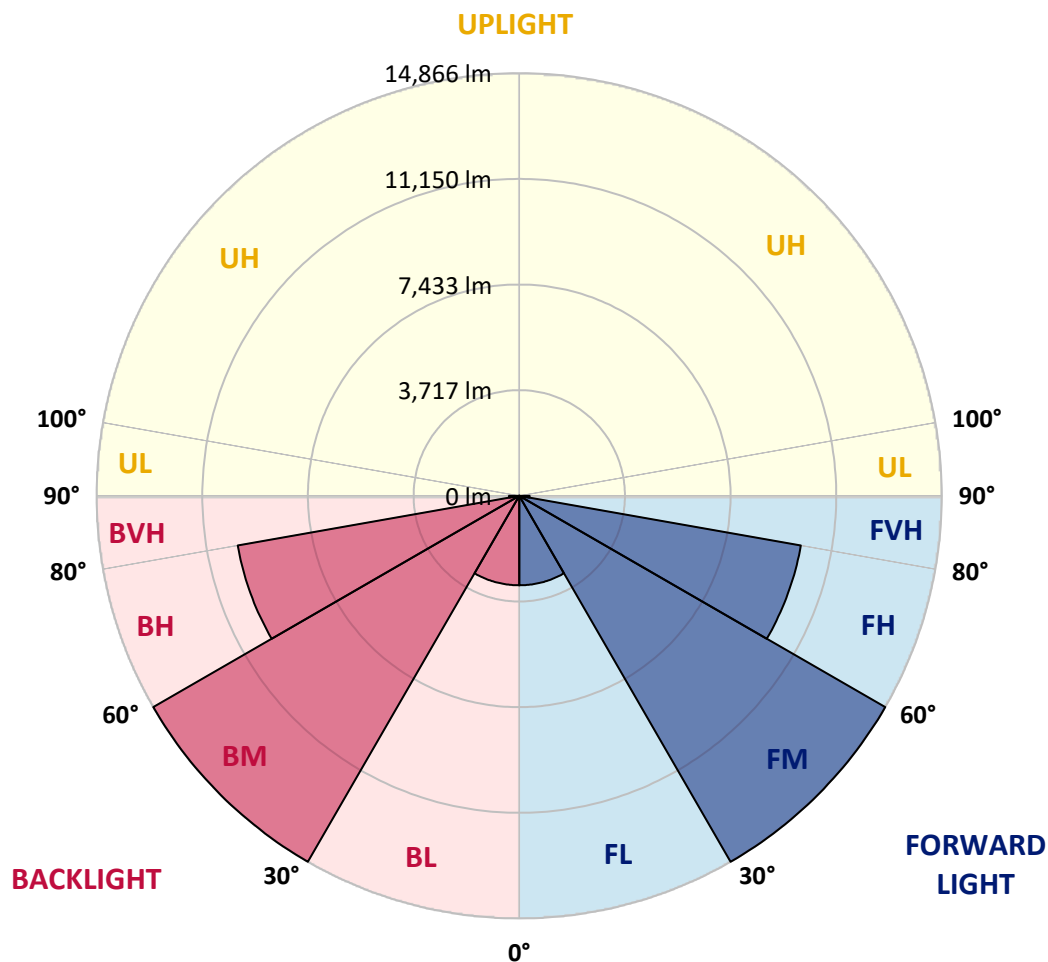
CATALOG NUMBER: GAN-SA0C-830-U-RW

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3148.4  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 14866.2 | 26.1      |                         |      |          |
| FH   | (60°-80°)   | 10057.8 | 17.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 361.5   | 0.6       |                         |      | G3/500   |
| BL   | (0°-30°)    | 3148.4  | 5.5       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 14866.2 | 26.1      | B5                      |      |          |
| BH   | (60°-80°)   | 10057.8 | 17.7      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 361.5   | 0.6       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5912.9  | 5912.9  | 5912.9  | 5912.9  | 5912.9  | 5912.9  | 5912.9  | 5912.9  | 5912.9  | 5912.9  | 5912.9  |
| 2.5°  | 5871.0  | 5872.9  | 5882.4  | 5893.9  | 5903.4  | 5928.2  | 5933.9  | 5943.4  | 5947.3  | 5956.8  | 5956.8  |
| 5°    | 5819.5  | 5823.3  | 5846.2  | 5876.7  | 5911.0  | 5972.0  | 6015.9  | 6065.5  | 6090.3  | 6117.0  | 6115.1  |
| 7.5°  | 5813.8  | 5823.3  | 5855.7  | 5905.3  | 5962.5  | 6063.6  | 6155.1  | 6254.2  | 6321.0  | 6382.0  | 6378.2  |
| 10°   | 5872.9  | 5888.1  | 5933.9  | 6008.3  | 6094.1  | 6219.9  | 6355.3  | 6488.8  | 6605.1  | 6698.5  | 6702.3  |
| 12.5° | 5962.5  | 5981.6  | 6054.0  | 6166.5  | 6296.2  | 6458.3  | 6618.4  | 6769.1  | 6929.2  | 7068.4  | 7079.9  |
| 15°   | 6080.7  | 6105.5  | 6214.2  | 6382.0  | 6580.3  | 6772.9  | 6944.5  | 7099.0  | 7283.9  | 7476.5  | 7495.6  |
| 17.5° | 6256.2  | 6290.5  | 6433.5  | 6660.4  | 6921.6  | 7133.3  | 7312.5  | 7428.8  | 7583.3  | 7781.6  | 7817.8  |
| 20°   | 6523.1  | 6567.0  | 6748.1  | 7018.9  | 7337.3  | 7558.5  | 7695.8  | 7720.6  | 7796.8  | 7974.2  | 8016.1  |
| 22.5° | 6870.1  | 6908.3  | 7110.4  | 7432.6  | 7789.2  | 8029.5  | 8101.9  | 8002.8  | 7995.1  | 8138.1  | 8178.2  |
| 25°   | 7257.2  | 7291.5  | 7526.1  | 7888.4  | 8271.6  | 8536.7  | 8534.8  | 8342.2  | 8208.7  | 8319.3  | 8361.2  |
| 27.5° | 7692.0  | 7745.4  | 7970.4  | 8351.7  | 8761.7  | 9022.9  | 9007.6  | 8710.2  | 8456.6  | 8485.2  | 8521.4  |
| 30°   | 8191.5  | 8250.6  | 8469.9  | 8857.0  | 9267.0  | 9522.5  | 9503.4  | 9110.6  | 8729.3  | 8653.0  | 8679.7  |
| 32.5° | 8811.2  | 8881.8  | 9089.6  | 9471.0  | 9833.3  | 10064.0 | 10008.7 | 9545.4  | 9057.2  | 8891.3  | 8916.1  |
| 35°   | 9556.8  | 9598.7  | 9818.0  | 10193.7 | 10487.3 | 10645.6 | 10529.3 | 10048.7 | 9472.9  | 9272.7  | 9272.7  |
| 37.5° | 10311.9 | 10344.3 | 10590.3 | 10954.5 | 11238.6 | 11322.5 | 11095.6 | 10599.8 | 10016.3 | 9732.2  | 9737.9  |
| 40°   | 11036.5 | 11124.2 | 11400.7 | 11774.4 | 12054.7 | 12077.6 | 11776.3 | 11229.0 | 10620.8 | 10327.1 | 10361.5 |
| 42.5° | 11793.5 | 11879.3 | 12209.1 | 12632.4 | 12880.3 | 12918.5 | 12565.7 | 11934.6 | 11303.4 | 11065.1 | 11103.2 |
| 45°   | 12468.5 | 12537.1 | 12918.5 | 13410.4 | 13719.3 | 13818.5 | 13400.9 | 12743.0 | 12041.3 | 11808.7 | 11818.2 |
| 47.5° | 12939.4 | 13029.0 | 13448.5 | 14028.2 | 14478.2 | 14630.7 | 14220.8 | 13530.5 | 12767.8 | 12485.6 | 12510.4 |
| 50°   | 13366.5 | 13414.2 | 13839.4 | 14472.5 | 15044.5 | 15359.1 | 15008.3 | 14308.5 | 13501.9 | 13202.6 | 13229.3 |
| 52.5° | 13604.9 | 13665.9 | 14077.8 | 14737.5 | 15414.4 | 15921.6 | 15708.1 | 15008.3 | 14211.3 | 13919.5 | 13951.9 |
| 55°   | 13439.0 | 13484.8 | 13978.6 | 14796.6 | 15643.2 | 16268.7 | 16301.1 | 15692.8 | 14907.2 | 14651.7 | 14743.2 |
| 57.5° | 12683.9 | 12741.1 | 13343.7 | 14415.3 | 15671.8 | 16503.2 | 16747.3 | 16327.8 | 15557.4 | 15349.6 | 15403.0 |
| 60°   | 11503.6 | 11539.9 | 12182.4 | 13387.5 | 15115.1 | 16600.5 | 17031.4 | 16846.4 | 16194.3 | 15986.5 | 16058.9 |
| 62.5° | 9400.4  | 9453.8  | 10222.3 | 11837.3 | 13938.6 | 16312.5 | 17306.0 | 17275.5 | 16787.3 | 16596.6 | 16661.5 |
| 65°   | 6425.9  | 6519.3  | 7369.7  | 9411.9  | 12125.2 | 15431.6 | 17555.8 | 17775.0 | 17311.7 | 17071.4 | 17157.2 |
| 67.5° | 3880.3  | 3948.9  | 4564.8  | 6214.2  | 9278.4  | 13654.5 | 17298.3 | 18343.3 | 17681.6 | 17294.5 | 17365.1 |
| 68°   | 3468.4  | 3531.4  | 4046.2  | 5607.8  | 8582.4  | 13153.0 | 17063.8 | 18408.1 | 17721.6 | 17290.7 | 17353.6 |
| 70°   | 2095.6  | 2137.5  | 2482.6  | 3466.5  | 5722.3  | 10433.9 | 15464.0 | 18354.7 | 17977.1 | 17344.1 | 17380.3 |
| 72.5° | 1365.3  | 1378.6  | 1435.8  | 1779.0  | 2923.1  | 5834.8  | 11606.6 | 17103.8 | 18360.4 | 17654.9 | 17649.2 |
| 75°   | 1134.5  | 1126.9  | 1132.6  | 1172.7  | 1441.5  | 2558.9  | 6782.4  | 13511.5 | 17502.4 | 17164.9 | 17044.7 |
| 77.5° | 959.1   | 953.4   | 951.5   | 953.4   | 964.8   | 1235.6  | 2944.1  | 8416.5  | 13393.2 | 15183.7 | 15290.5 |
| 80°   | 776.1   | 768.4   | 793.2   | 781.8   | 747.5   | 768.4   | 1233.7  | 3500.9  | 6313.4  | 6792.0  | 6364.8  |
| 82.5° | 564.4   | 535.8   | 642.6   | 612.1   | 583.5   | 541.5   | 680.7   | 1130.7  | 1506.4  | 1033.5  | 726.5   |
| 85°   | 434.7   | 404.2   | 488.1   | 469.1   | 400.4   | 276.5   | 404.2   | 553.0   | 610.2   | 348.9   | 274.6   |
| 87.5° | 177.3   | 186.9   | 352.8   | 278.4   | 234.5   | 133.5   | 165.9   | 221.2   | 297.5   | 148.7   | 114.4   |
| 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)