

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: P317054

Luminaire Tested: **GAN-SA0C-727-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317054  
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-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59847 lumens  
Efficiency: N/A  
Efficacy: 107.3 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

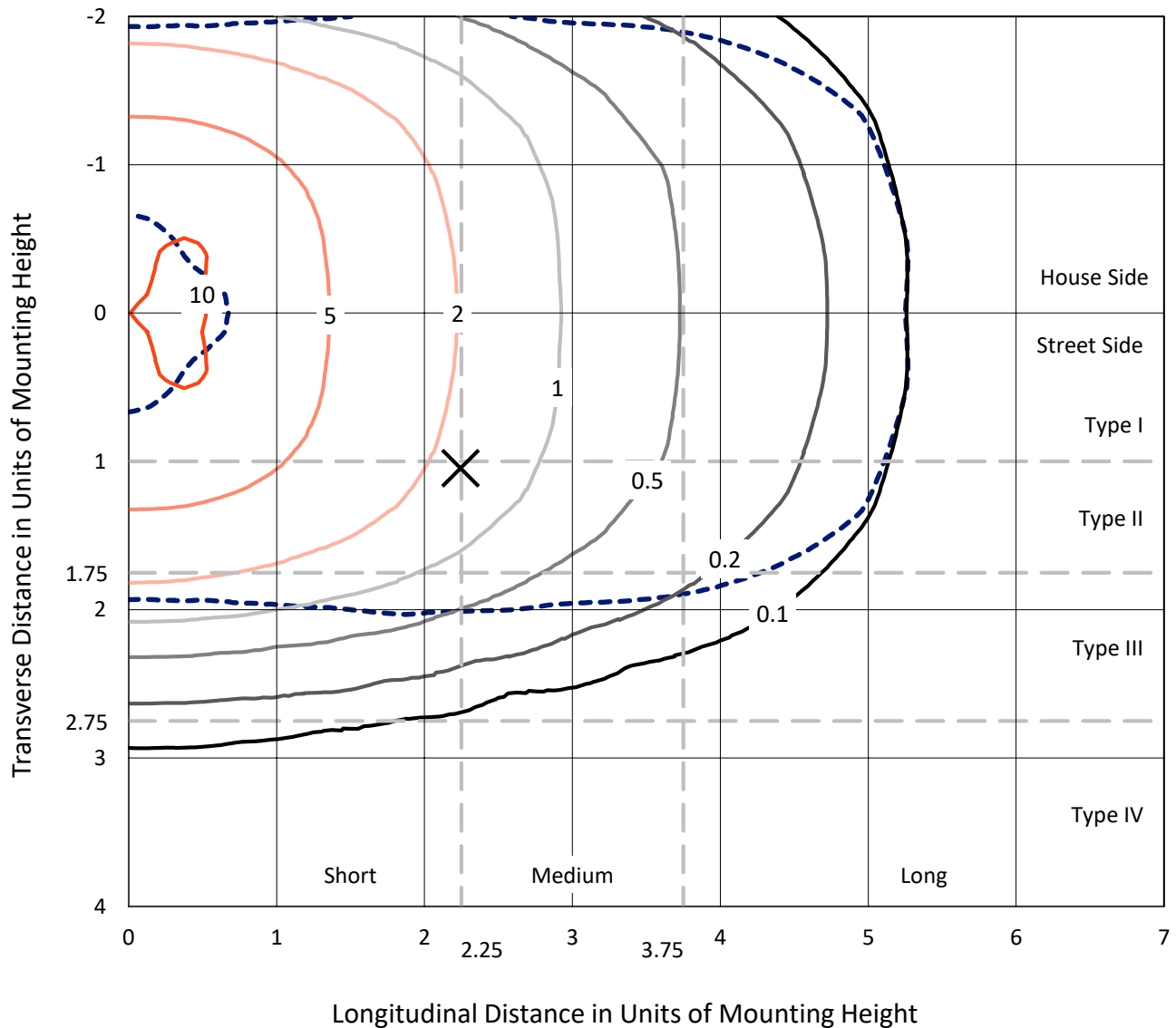


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## Iso-Footcandle Lines of Horizontal Illumination

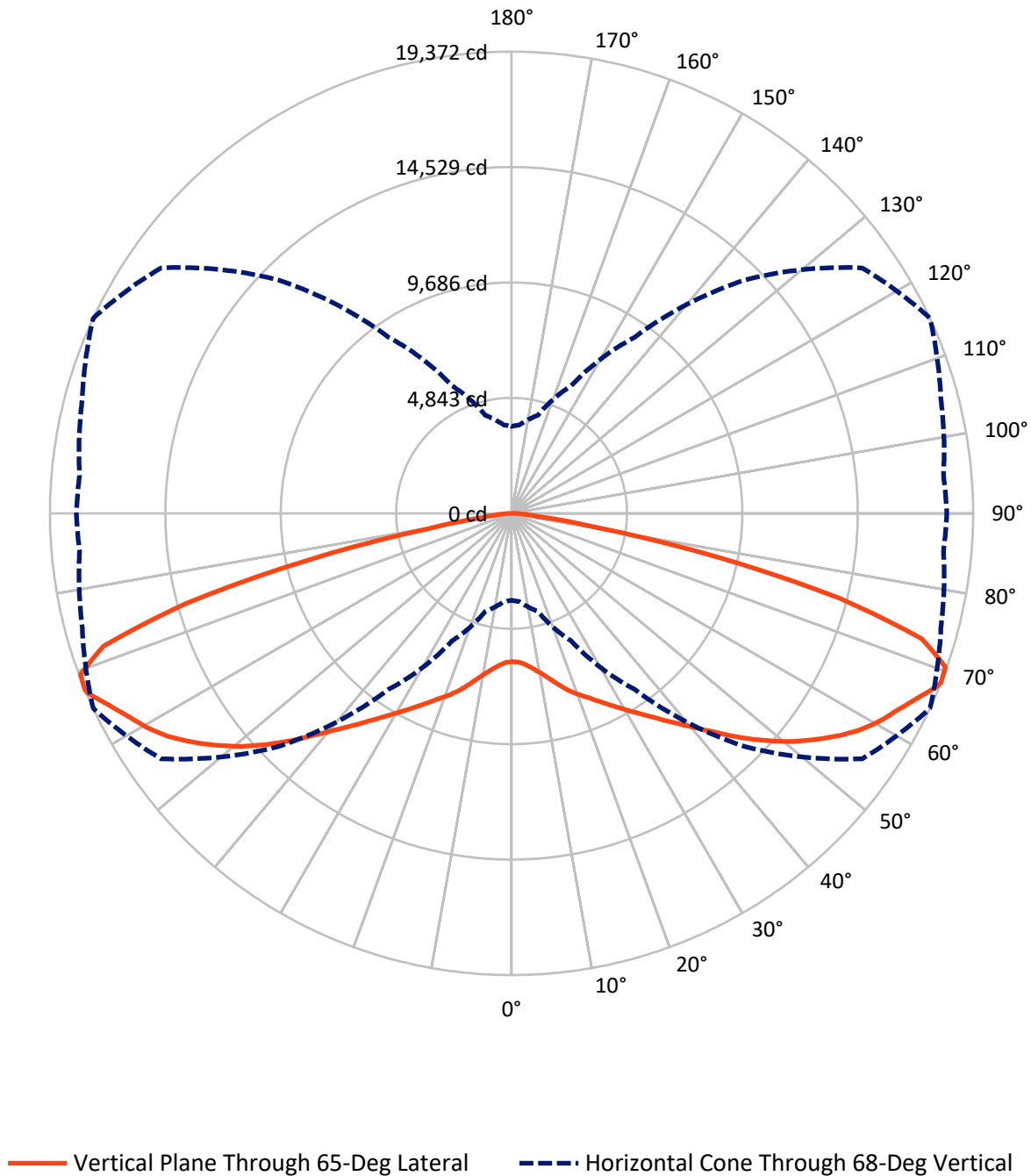
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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    | 29923.5  | 0.0    | 29923.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 29923.5  | 0.0    | 29923.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 59847.0  | 0.0    | 59847.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 609.2   | 1.0       |
| 10°-20°   | 2040.0  | 3.4       |
| 20°-30°   | 3977.5  | 6.6       |
| 30°-40°   | 6681.9  | 11.2      |
| 40°-50°   | 10528.3 | 17.6      |
| 50°-60°   | 14079.8 | 23.5      |
| 60°-70°   | 13687.3 | 22.9      |
| 70°-80°   | 7482.1  | 12.5      |
| 80°-90°   | 761.0   | 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°    | 59847.0 | 100.0     |
| 0°-180°   | 59847.0 | 100.0     |

**Coefficient of Utilization**



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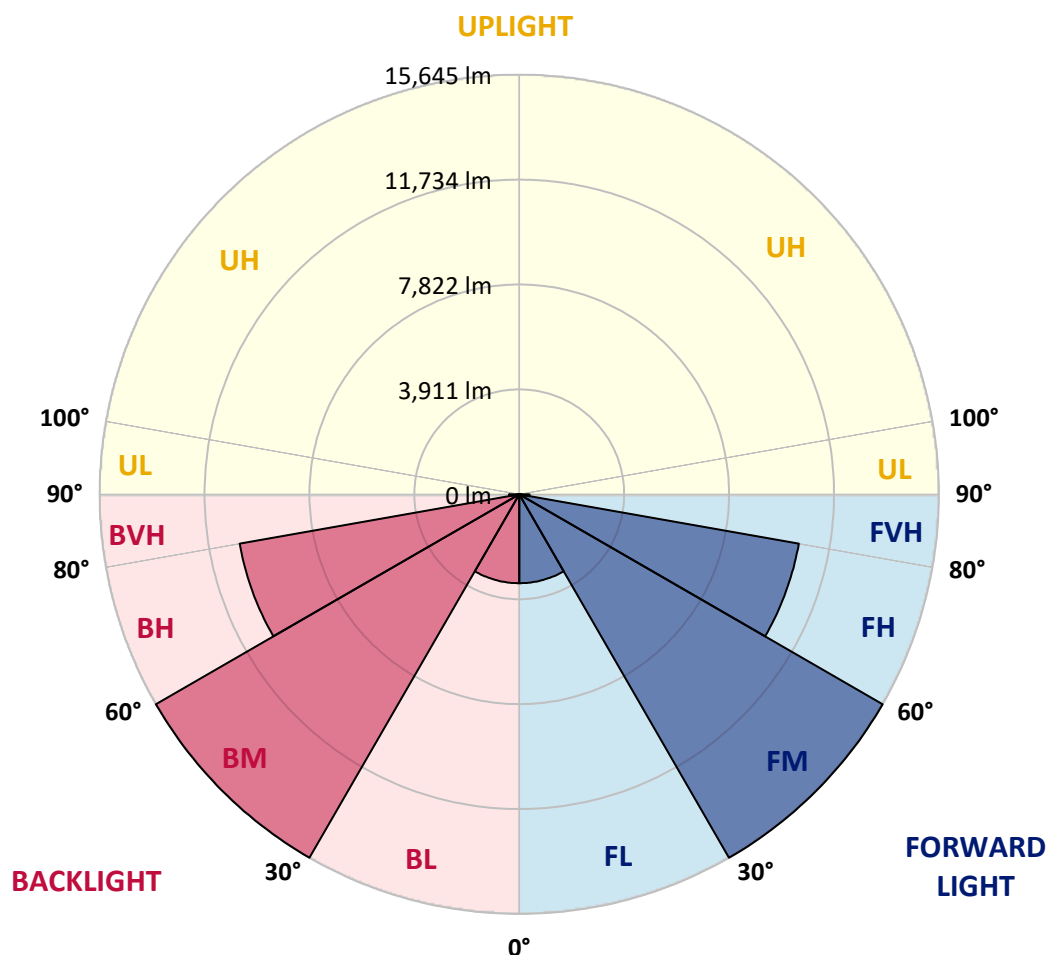
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3313.4  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 15644.9 | 26.1      |                         |      |          |
| FH   | (60°-80°)   | 10584.7 | 17.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 380.5   | 0.6       |                         |      | G3/500   |
| BL   | (0°-30°)    | 3313.4  | 5.5       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 15644.9 | 26.1      | B5                      |      |          |
| BH   | (60°-80°)   | 10584.7 | 17.7      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 380.5   | 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°    | 6222.7  | 6222.7  | 6222.7  | 6222.7  | 6222.7  | 6222.7  | 6222.7  | 6222.7  | 6222.7  | 6222.7  | 6222.7  |
| 2.5°  | 6178.5  | 6180.5  | 6190.6  | 6202.6  | 6212.6  | 6238.7  | 6244.8  | 6254.8  | 6258.8  | 6268.8  | 6268.8  |
| 5°    | 6124.4  | 6128.4  | 6152.4  | 6184.6  | 6220.7  | 6284.9  | 6331.0  | 6383.2  | 6409.3  | 6437.4  | 6435.4  |
| 7.5°  | 6118.3  | 6128.4  | 6162.5  | 6214.7  | 6274.9  | 6381.2  | 6477.5  | 6581.9  | 6652.1  | 6716.3  | 6712.3  |
| 10°   | 6180.5  | 6196.6  | 6244.8  | 6323.0  | 6413.3  | 6545.8  | 6688.2  | 6828.7  | 6951.1  | 7049.4  | 7053.4  |
| 12.5° | 6274.9  | 6294.9  | 6371.2  | 6489.6  | 6626.0  | 6796.6  | 6965.1  | 7123.7  | 7292.2  | 7438.7  | 7450.8  |
| 15°   | 6399.3  | 6425.4  | 6539.7  | 6716.3  | 6925.0  | 7127.7  | 7308.3  | 7470.8  | 7665.5  | 7868.1  | 7888.2  |
| 17.5° | 6583.9  | 6620.0  | 6770.5  | 7009.3  | 7284.2  | 7506.9  | 7695.6  | 7818.0  | 7980.5  | 8189.2  | 8227.3  |
| 20°   | 6864.8  | 6911.0  | 7101.6  | 7386.5  | 7721.7  | 7954.4  | 8098.9  | 8125.0  | 8205.3  | 8391.9  | 8436.0  |
| 22.5° | 7230.0  | 7270.2  | 7482.9  | 7822.0  | 8197.2  | 8450.1  | 8526.3  | 8422.0  | 8414.0  | 8564.5  | 8606.6  |
| 25°   | 7637.4  | 7673.5  | 7920.3  | 8301.6  | 8704.9  | 8983.9  | 8981.8  | 8779.2  | 8638.7  | 8755.1  | 8799.2  |
| 27.5° | 8094.9  | 8151.1  | 8387.9  | 8789.2  | 9220.6  | 9495.6  | 9479.5  | 9166.5  | 8899.6  | 8929.7  | 8967.8  |
| 30°   | 8620.6  | 8682.9  | 8913.6  | 9321.0  | 9752.4  | 10021.3 | 10001.2 | 9587.9  | 9186.5  | 9106.3  | 9134.4  |
| 32.5° | 9272.8  | 9347.1  | 9565.8  | 9967.1  | 10348.4 | 10591.2 | 10533.0 | 10045.4 | 9531.7  | 9357.1  | 9383.2  |
| 35°   | 10057.4 | 10101.6 | 10332.3 | 10727.7 | 11036.7 | 11203.2 | 11080.8 | 10575.1 | 9969.1  | 9758.4  | 9758.4  |
| 37.5° | 10852.1 | 10886.2 | 11145.0 | 11528.3 | 11827.3 | 11915.6 | 11676.8 | 11155.1 | 10541.0 | 10242.0 | 10248.1 |
| 40°   | 11614.6 | 11706.9 | 11997.9 | 12391.2 | 12686.2 | 12710.2 | 12393.2 | 11817.3 | 11177.1 | 10868.1 | 10904.2 |
| 42.5° | 12411.2 | 12501.5 | 12848.7 | 13294.2 | 13555.0 | 13595.2 | 13223.9 | 12559.7 | 11895.5 | 11644.7 | 11684.8 |
| 45°   | 13121.6 | 13193.8 | 13595.2 | 14112.9 | 14438.0 | 14542.3 | 14102.9 | 13410.6 | 12672.1 | 12427.3 | 12437.3 |
| 47.5° | 13617.3 | 13711.6 | 14153.0 | 14763.1 | 15236.6 | 15397.2 | 14965.7 | 14239.3 | 13436.7 | 13139.7 | 13165.8 |
| 50°   | 14066.7 | 14116.9 | 14564.4 | 15230.6 | 15832.6 | 16163.7 | 15794.5 | 15058.0 | 14209.2 | 13894.2 | 13922.3 |
| 52.5° | 14317.6 | 14381.8 | 14815.2 | 15509.5 | 16221.9 | 16755.7 | 16530.9 | 15794.5 | 14955.7 | 14648.7 | 14682.8 |
| 55°   | 14143.0 | 14191.2 | 14710.9 | 15571.7 | 16462.7 | 17120.9 | 17155.0 | 16514.9 | 15688.1 | 15419.2 | 15515.6 |
| 57.5° | 13348.4 | 13408.6 | 14042.7 | 15170.4 | 16492.8 | 17367.7 | 17624.6 | 17183.1 | 16372.4 | 16153.7 | 16209.9 |
| 60°   | 12106.2 | 12144.4 | 12820.6 | 14088.8 | 15906.9 | 17470.1 | 17923.6 | 17728.9 | 17042.6 | 16823.9 | 16900.2 |
| 62.5° | 9892.9  | 9949.1  | 10757.8 | 12457.4 | 14668.7 | 17167.1 | 18212.5 | 18180.4 | 17666.7 | 17466.0 | 17534.3 |
| 65°   | 6762.5  | 6860.8  | 7755.8  | 9904.9  | 12760.4 | 16240.0 | 18475.4 | 18706.2 | 18218.5 | 17965.7 | 18056.0 |
| 67.5° | 4083.6  | 4155.8  | 4804.0  | 6539.7  | 9764.5  | 14369.8 | 18204.5 | 19304.2 | 18607.8 | 18200.5 | 18274.7 |
| 68°   | 3650.1  | 3716.4  | 4258.2  | 5901.6  | 9032.0  | 13842.0 | 17957.7 | 19372.4 | 18650.0 | 18196.5 | 18262.7 |
| 70°   | 2205.3  | 2249.5  | 2612.7  | 3648.1  | 6022.0  | 10980.5 | 16274.1 | 19316.2 | 18918.9 | 18252.7 | 18290.8 |
| 72.5° | 1436.8  | 1450.8  | 1511.0  | 1872.2  | 3076.2  | 6140.4  | 12214.6 | 17999.8 | 19322.2 | 18579.7 | 18573.7 |
| 75°   | 1194.0  | 1185.9  | 1192.0  | 1234.1  | 1517.0  | 2692.9  | 7137.7  | 14219.3 | 18419.2 | 18064.0 | 17937.6 |
| 77.5° | 1009.4  | 1003.3  | 1001.3  | 1003.3  | 1015.4  | 1300.3  | 3098.3  | 8857.4  | 14094.8 | 15979.1 | 16091.5 |
| 80°   | 816.7   | 808.7   | 834.8   | 822.7   | 786.6   | 808.7   | 1298.3  | 3684.2  | 6644.1  | 7147.8  | 6698.3  |
| 82.5° | 594.0   | 563.9   | 676.2   | 644.1   | 614.0   | 569.9   | 716.4   | 1190.0  | 1585.3  | 1087.6  | 764.5   |
| 85°   | 457.5   | 425.4   | 513.7   | 493.6   | 421.4   | 291.0   | 425.4   | 581.9   | 642.1   | 367.2   | 289.0   |
| 87.5° | 186.6   | 196.7   | 371.2   | 293.0   | 246.8   | 140.5   | 174.6   | 232.8   | 313.0   | 156.5   | 120.4   |
| 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)