

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: P459417

Luminaire Tested: **GLAN-SA8D-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60039 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

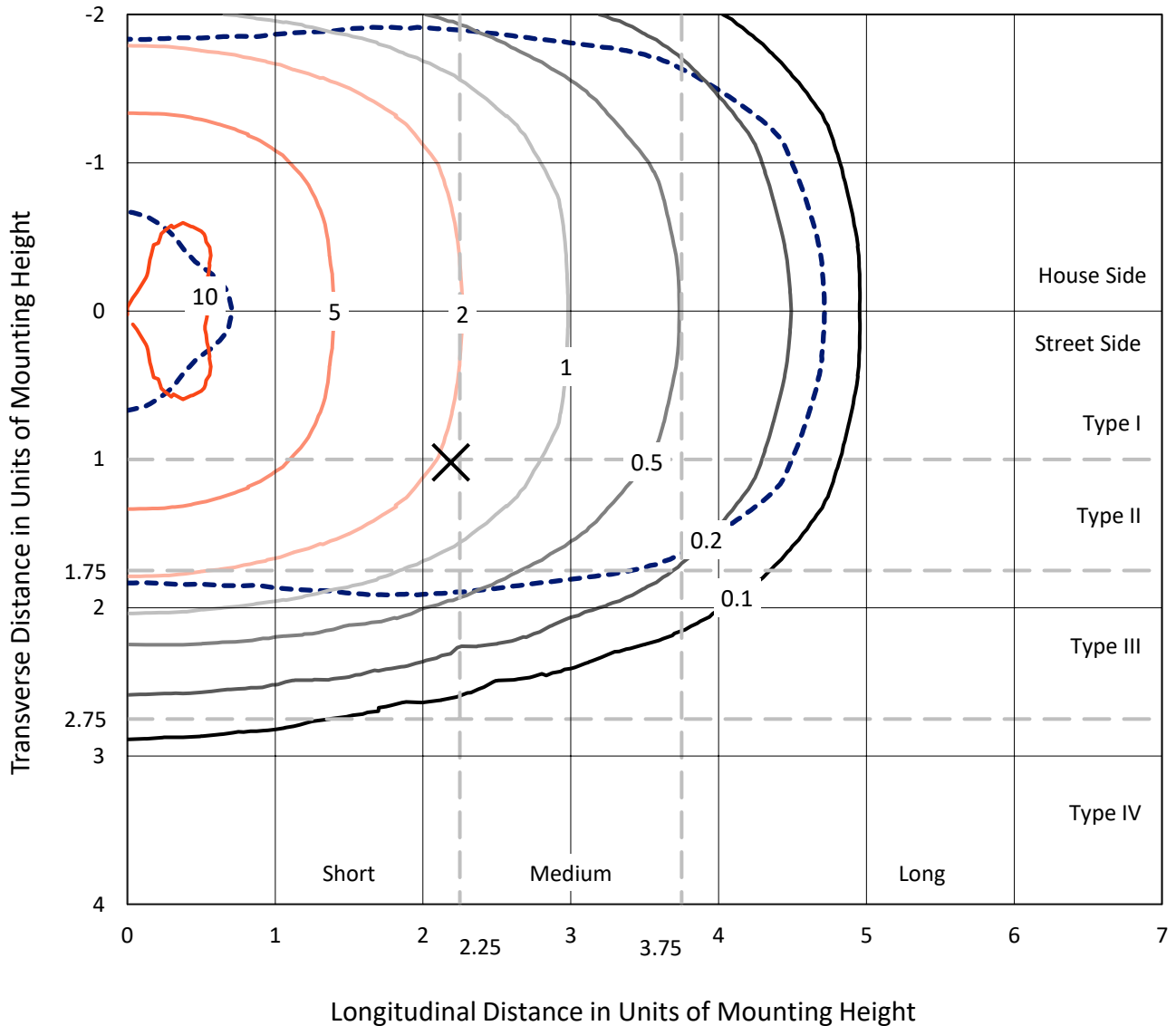
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

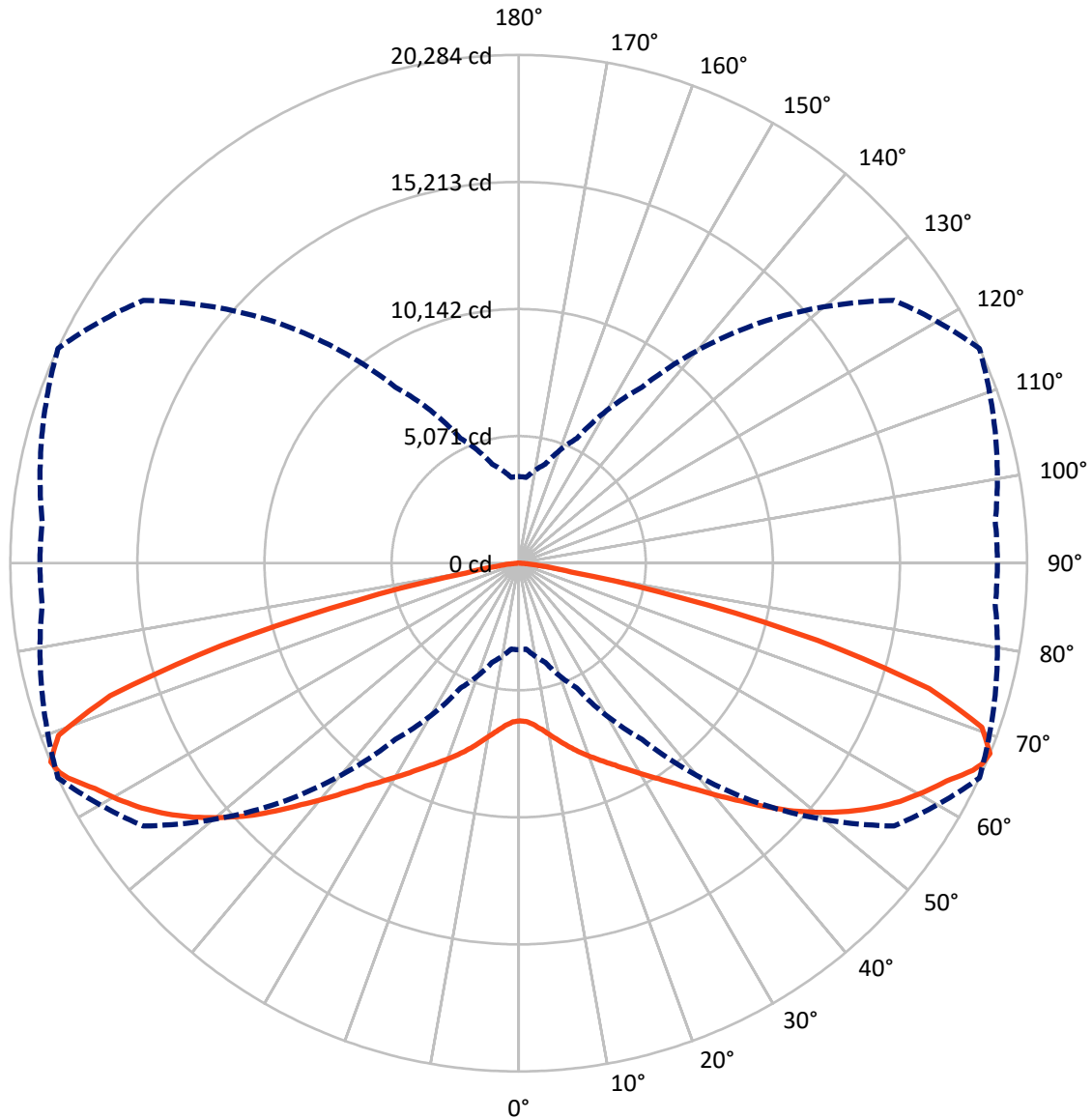
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 30019.5  | 0.0    | 30019.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 30019.5  | 0.0    | 30019.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 60039.0  | 0.0    | 60039.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 620.2   | 1.0       |
| 10°-20°   | 2075.8  | 3.5       |
| 20°-30°   | 4060.5  | 6.8       |
| 30°-40°   | 6906.3  | 11.5      |
| 40°-50°   | 10930.6 | 18.2      |
| 50°-60°   | 14493.8 | 24.1      |
| 60°-70°   | 13672.1 | 22.8      |
| 70°-80°   | 6758.8  | 11.3      |
| 80°-90°   | 520.9   | 0.9       |
| 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°    | 60039.0 | 100.0     |
| 0°-180°   | 60039.0 | 100.0     |

**Coefficient of Utilization**



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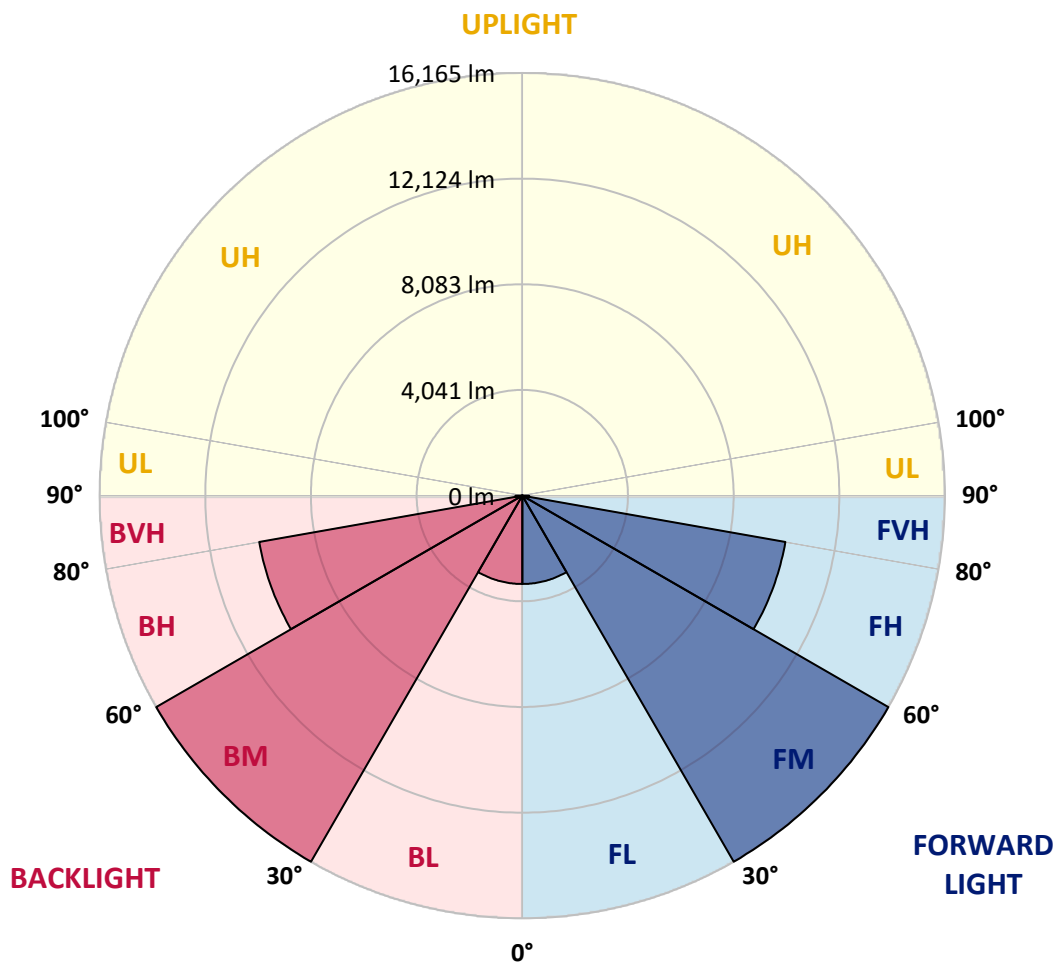
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3378.3  | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 16165.4 | 26.9      |                         |      |          |
| FH   | (60°-80°)   | 10215.4 | 17.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 260.4   | 0.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 3378.3  | 5.6       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 16165.4 | 26.9      | B5                      |      |          |
| BH   | (60°-80°)   | 10215.4 | 17.0      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 260.4   | 0.4       |                         |      | 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°    | 6288.6  | 6288.6  | 6288.6  | 6288.6  | 6288.6  | 6288.6  | 6288.6  | 6288.6  | 6288.6  | 6288.6  | 6288.6  |
| 2.5°  | 6256.4  | 6262.8  | 6269.3  | 6278.9  | 6291.8  | 6311.1  | 6323.9  | 6333.6  | 6359.3  | 6362.5  | 6359.3  |
| 5°    | 6233.9  | 6240.3  | 6256.4  | 6285.3  | 6327.2  | 6385.1  | 6430.1  | 6484.8  | 6526.6  | 6555.5  | 6549.1  |
| 7.5°  | 6230.7  | 6243.5  | 6269.3  | 6330.4  | 6410.8  | 6510.5  | 6613.4  | 6706.7  | 6787.1  | 6851.5  | 6841.8  |
| 10°   | 6282.1  | 6298.2  | 6340.0  | 6430.1  | 6555.5  | 6700.3  | 6845.0  | 6983.4  | 7099.2  | 7182.8  | 7211.7  |
| 12.5° | 6369.0  | 6381.8  | 6459.0  | 6594.1  | 6774.3  | 6954.4  | 7118.5  | 7288.9  | 7449.8  | 7591.3  | 7591.3  |
| 15°   | 6520.2  | 6542.7  | 6639.2  | 6835.4  | 7057.3  | 7266.4  | 7433.7  | 7613.8  | 7787.5  | 7948.3  | 7996.6  |
| 17.5° | 6729.2  | 6761.4  | 6906.2  | 7157.1  | 7440.1  | 7633.1  | 7790.7  | 7938.7  | 8089.9  | 8244.3  | 8266.8  |
| 20°   | 7015.5  | 7047.7  | 7240.7  | 7543.1  | 7877.6  | 8109.2  | 8215.3  | 8250.7  | 8324.7  | 8472.7  | 8492.0  |
| 22.5° | 7404.7  | 7436.9  | 7652.4  | 7993.4  | 8366.5  | 8617.4  | 8662.4  | 8578.8  | 8559.5  | 8675.3  | 8688.2  |
| 25°   | 7845.4  | 7874.4  | 8122.0  | 8488.7  | 8874.7  | 9148.2  | 9135.3  | 8929.4  | 8813.6  | 8884.4  | 8903.7  |
| 27.5° | 8340.8  | 8382.6  | 8633.5  | 9013.1  | 9431.2  | 9672.5  | 9633.9  | 9334.7  | 9087.0  | 9074.2  | 9080.6  |
| 30°   | 8974.5  | 9019.5  | 9257.5  | 9621.0  | 10032.7 | 10254.7 | 10174.3 | 9772.2  | 9389.4  | 9260.7  | 9260.7  |
| 32.5° | 9643.5  | 9756.1  | 9997.4  | 10376.9 | 10698.6 | 10859.4 | 10737.2 | 10254.7 | 9746.5  | 9566.3  | 9556.7  |
| 35°   | 10515.2 | 10576.4 | 10814.4 | 11184.3 | 11425.5 | 11551.0 | 11316.2 | 10798.3 | 10212.9 | 10000.6 | 9971.6  |
| 37.5° | 11367.6 | 11419.1 | 11695.7 | 12049.6 | 12342.3 | 12335.9 | 12017.4 | 11444.8 | 10791.9 | 10553.8 | 10534.5 |
| 40°   | 12239.4 | 12294.0 | 12609.3 | 12934.2 | 13226.9 | 13201.1 | 12815.1 | 12175.0 | 11480.2 | 11213.3 | 11264.7 |
| 42.5° | 12995.3 | 13056.4 | 13413.4 | 13876.6 | 14140.4 | 14134.0 | 13686.9 | 12966.3 | 12242.6 | 12004.5 | 12049.6 |
| 45°   | 13683.6 | 13738.3 | 14153.3 | 14684.0 | 15070.0 | 15118.3 | 14629.3 | 13867.0 | 13123.9 | 12818.4 | 12831.2 |
| 47.5° | 14169.4 | 14272.3 | 14706.5 | 15314.5 | 15838.8 | 16009.3 | 15530.0 | 14783.7 | 13928.1 | 13609.7 | 13629.0 |
| 50°   | 14539.3 | 14603.6 | 15076.5 | 15768.0 | 16430.7 | 16784.5 | 16398.5 | 15632.9 | 14732.3 | 14394.5 | 14439.6 |
| 52.5° | 14584.3 | 14661.5 | 15176.2 | 15973.9 | 16823.1 | 17360.3 | 17170.5 | 16462.8 | 15552.5 | 15205.1 | 15301.6 |
| 55°   | 14217.6 | 14262.6 | 14877.0 | 15845.2 | 16977.5 | 17788.1 | 17836.3 | 17234.8 | 16334.2 | 16070.4 | 16134.7 |
| 57.5° | 13172.2 | 13288.0 | 14066.4 | 15243.7 | 16765.2 | 18016.5 | 18334.9 | 17936.1 | 17125.5 | 16864.9 | 16967.8 |
| 60°   | 11457.7 | 11573.5 | 12355.2 | 13847.7 | 15964.2 | 17910.3 | 18746.7 | 18556.9 | 17842.8 | 17633.7 | 17688.4 |
| 62.5° | 8977.7  | 8968.0  | 9936.2  | 11766.5 | 14372.0 | 17389.2 | 19052.2 | 19155.2 | 18550.4 | 18286.7 | 18370.3 |
| 65°   | 5818.9  | 5847.9  | 6783.9  | 8755.7  | 11969.2 | 16064.0 | 19119.8 | 19917.5 | 19245.2 | 18846.4 | 18907.5 |
| 66°   | 4680.2  | 4767.1  | 5561.6  | 7379.0  | 10743.6 | 15195.5 | 18917.1 | 20142.7 | 19457.5 | 18975.0 | 19004.0 |
| 67.5° | 3454.7  | 3438.6  | 4091.6  | 5494.0  | 8578.8  | 13545.3 | 18283.5 | 20284.2 | 19698.8 | 19090.8 | 19103.7 |
| 70°   | 1971.8  | 1968.6  | 2200.2  | 3017.2  | 5043.7  | 9537.4  | 15411.0 | 19605.5 | 20187.7 | 19509.0 | 19473.6 |
| 72.5° | 1441.1  | 1431.4  | 1463.6  | 1666.2  | 2460.7  | 4815.3  | 10631.0 | 17135.1 | 19936.8 | 19441.4 | 19341.7 |
| 75°   | 1209.5  | 1203.0  | 1196.6  | 1222.3  | 1379.9  | 2180.9  | 5642.0  | 12326.2 | 17299.2 | 18248.1 | 18145.1 |
| 77.5° | 987.5   | 987.5   | 990.7   | 984.3   | 990.7   | 1148.3  | 2338.5  | 6607.0  | 10534.5 | 11760.1 | 12046.4 |
| 80°   | 772.0   | 768.8   | 823.5   | 800.9   | 749.5   | 736.6   | 1035.8  | 2126.2  | 3496.5  | 3477.2  | 2869.3  |
| 82.5° | 569.3   | 530.7   | 627.2   | 611.2   | 553.3   | 469.6   | 604.7   | 907.1   | 1167.6  | 759.1   | 562.9   |
| 85°   | 360.3   | 357.0   | 443.9   | 405.3   | 337.7   | 221.9   | 289.5   | 389.2   | 482.5   | 292.7   | 238.0   |
| 87.5° | 64.3    | 61.1    | 141.5   | 102.9   | 102.9   | 64.3    | 80.4    | 106.1   | 157.6   | 109.4   | 80.4    |
| 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)