

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: P317033

Luminaire Tested: **GAN-SA9A-727-U-RW**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P317033  
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-SA9A-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 35615 lumens  
Efficiency: N/A  
Efficacy: 122.8 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): 290  
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

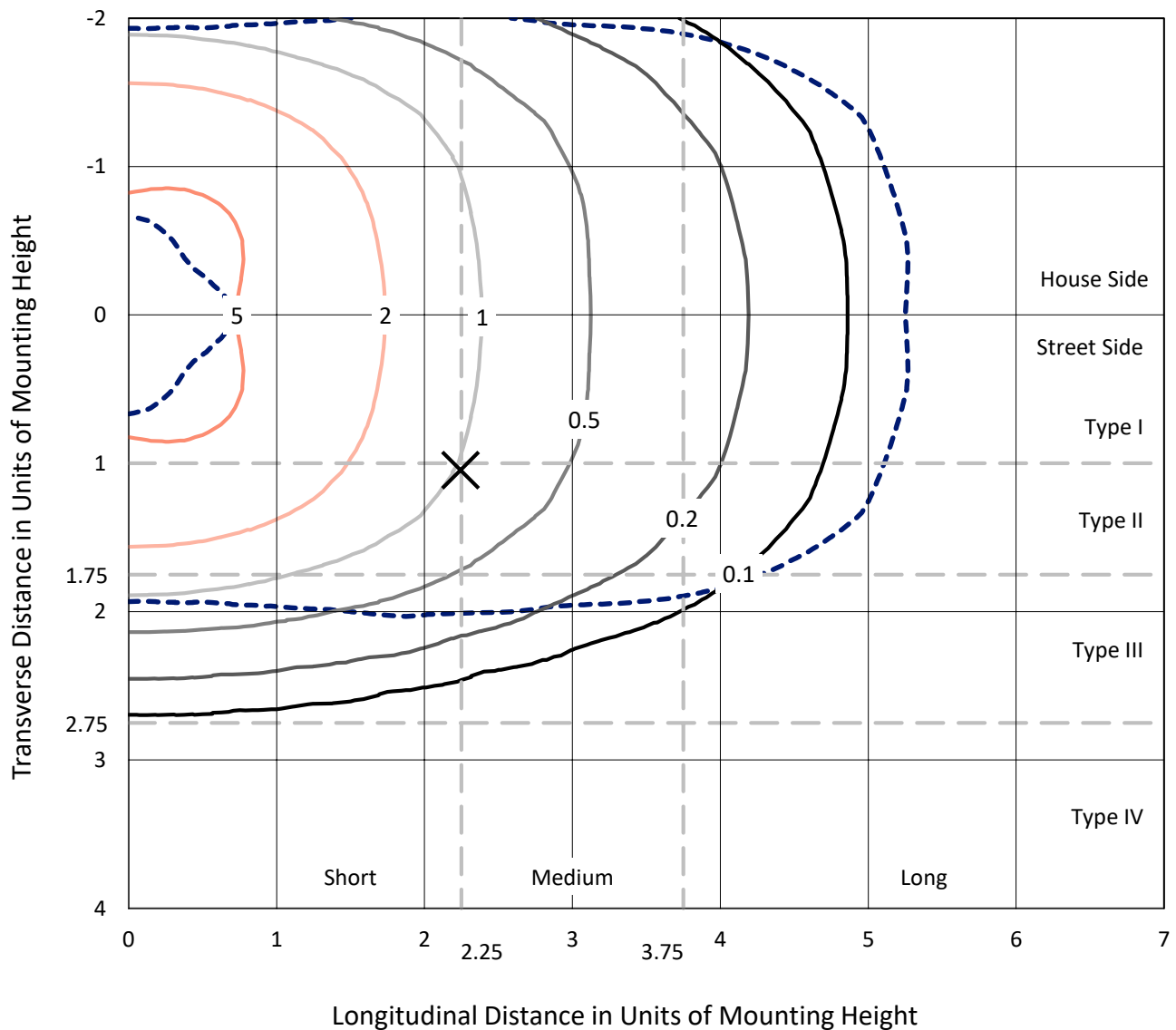


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## Iso-Footcandle Lines of Horizontal Illumination

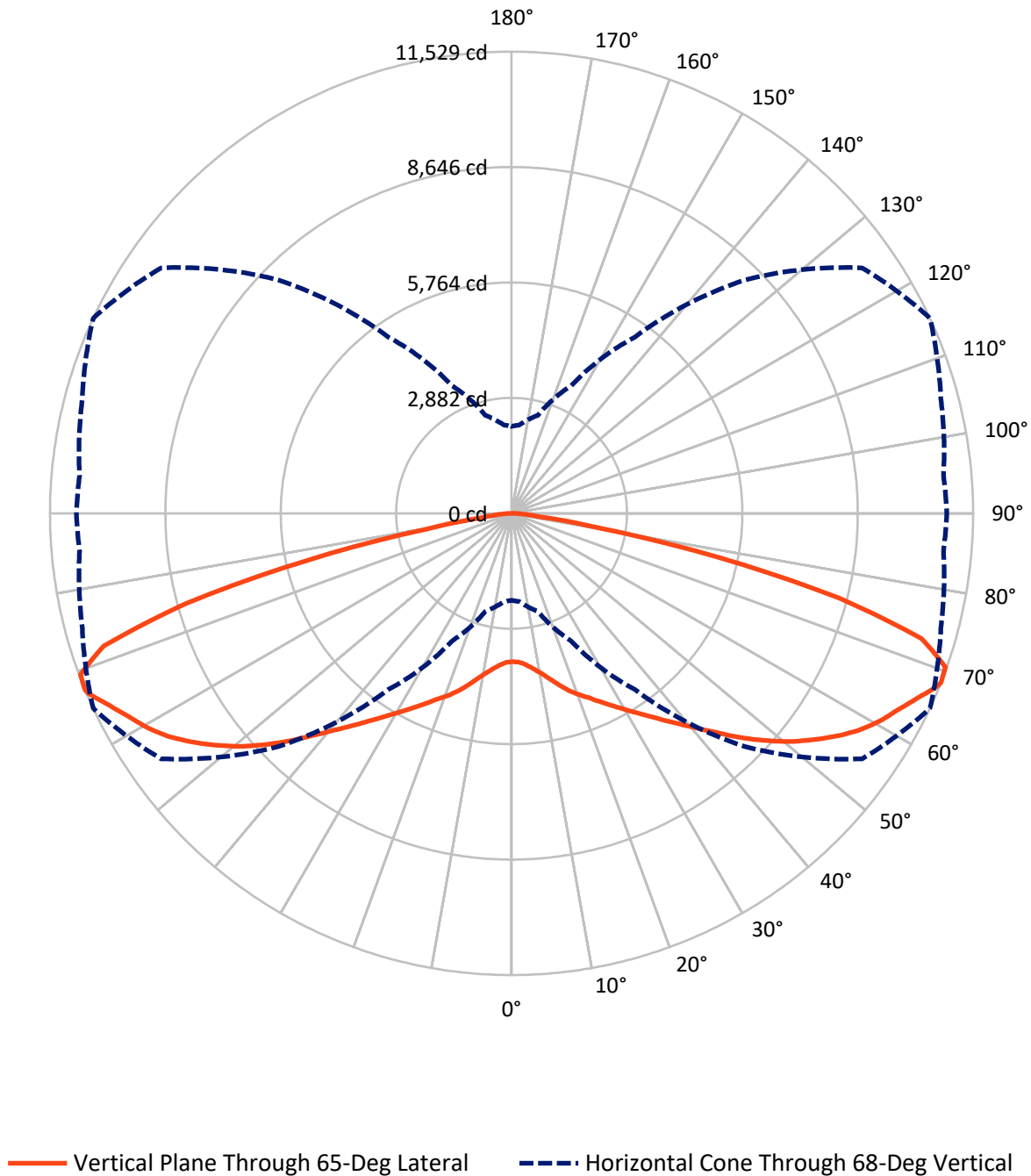
× Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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    | 17807.5  | 0.0    | 17807.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17807.5  | 0.0    | 17807.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 35615.0  | 0.0    | 35615.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.6   | 1.0       |
| 10°-20°   | 1214.0  | 3.4       |
| 20°-30°   | 2367.0  | 6.6       |
| 30°-40°   | 3976.4  | 11.2      |
| 40°-50°   | 6265.4  | 17.6      |
| 50°-60°   | 8378.9  | 23.5      |
| 60°-70°   | 8145.3  | 22.9      |
| 70°-80°   | 4452.6  | 12.5      |
| 80°-90°   | 452.8   | 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°    | 35615.0 | 100.0     |
| 0°-180°   | 35615.0 | 100.0     |

**Coefficient of Utilization**



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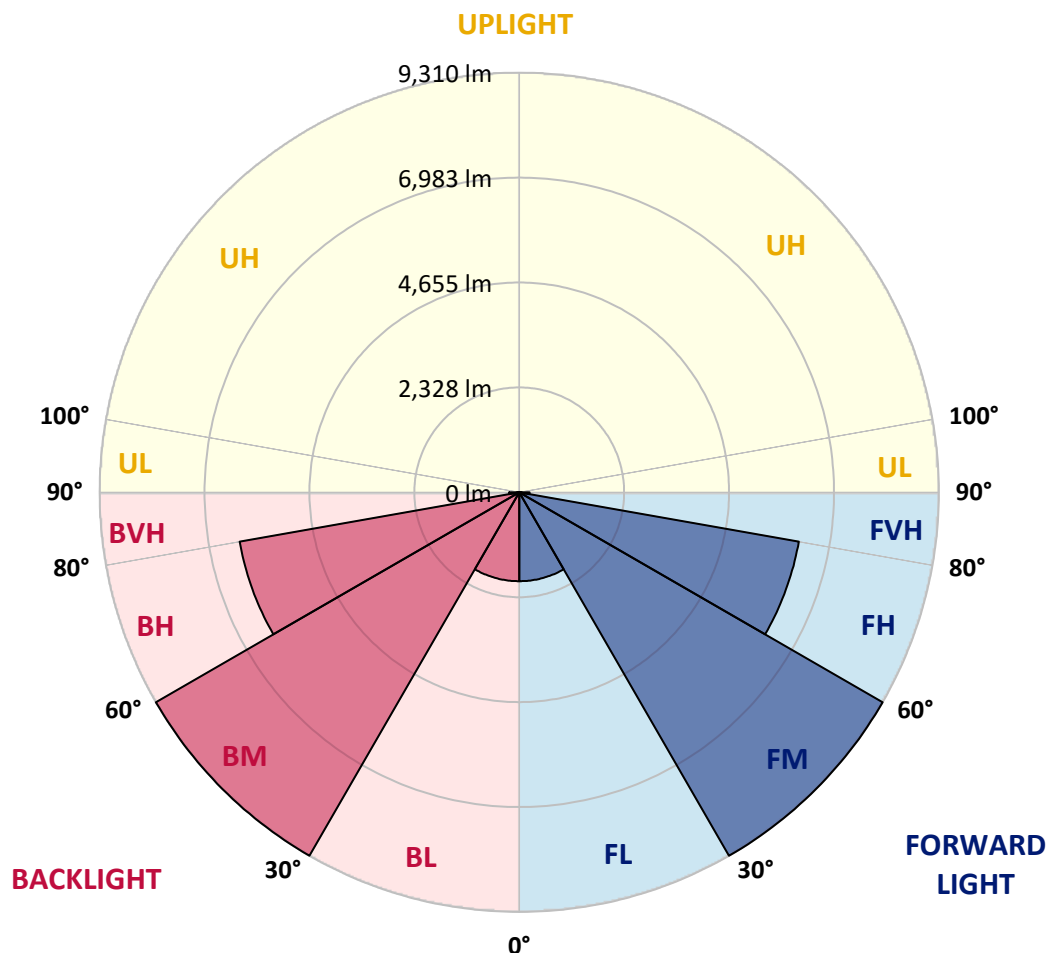
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1971.8 | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 9310.3 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 6299.0 | 17.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 226.4  | 0.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1971.8 | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 9310.3 | 26.1      | B5                      |      |         |
| BH   | (60°-80°)   | 6299.0 | 17.7      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 226.4  | 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°    | 3703.1 | 3703.1 | 3703.1 | 3703.1 | 3703.1 | 3703.1  | 3703.1  | 3703.1  | 3703.1  | 3703.1  | 3703.1  |
| 2.5°  | 3676.9 | 3678.0 | 3684.0 | 3691.2 | 3697.2 | 3712.7  | 3716.3  | 3722.2  | 3724.6  | 3730.6  | 3730.6  |
| 5°    | 3644.6 | 3647.0 | 3661.3 | 3680.4 | 3701.9 | 3740.1  | 3767.6  | 3798.7  | 3814.2  | 3830.9  | 3829.7  |
| 7.5°  | 3641.0 | 3647.0 | 3667.3 | 3698.3 | 3734.2 | 3797.5  | 3854.8  | 3916.9  | 3958.7  | 3996.9  | 3994.5  |
| 10°   | 3678.0 | 3687.6 | 3716.3 | 3762.8 | 3816.6 | 3895.4  | 3980.2  | 4063.8  | 4136.6  | 4195.1  | 4197.5  |
| 12.5° | 3734.2 | 3746.1 | 3791.5 | 3861.9 | 3943.2 | 4044.7  | 4145.0  | 4239.3  | 4339.6  | 4426.8  | 4434.0  |
| 15°   | 3808.2 | 3823.7 | 3891.8 | 3996.9 | 4121.1 | 4241.7  | 4349.2  | 4445.9  | 4561.7  | 4682.3  | 4694.3  |
| 17.5° | 3918.1 | 3939.6 | 4029.1 | 4171.2 | 4334.8 | 4467.4  | 4579.6  | 4652.5  | 4749.2  | 4873.4  | 4896.1  |
| 20°   | 4085.3 | 4112.7 | 4226.2 | 4395.7 | 4595.2 | 4733.7  | 4819.7  | 4835.2  | 4883.0  | 4994.0  | 5020.3  |
| 22.5° | 4302.6 | 4326.5 | 4453.1 | 4654.9 | 4878.2 | 5028.7  | 5074.0  | 5011.9  | 5007.2  | 5096.7  | 5121.8  |
| 25°   | 4545.0 | 4566.5 | 4713.4 | 4940.3 | 5180.3 | 5346.3  | 5345.1  | 5224.5  | 5140.9  | 5210.2  | 5236.4  |
| 27.5° | 4817.3 | 4850.7 | 4991.6 | 5230.5 | 5487.2 | 5650.8  | 5641.3  | 5455.0  | 5296.1  | 5314.1  | 5336.7  |
| 30°   | 5130.2 | 5167.2 | 5304.5 | 5546.9 | 5803.7 | 5963.7  | 5951.7  | 5705.7  | 5466.9  | 5419.1  | 5435.9  |
| 32.5° | 5518.3 | 5562.4 | 5692.6 | 5931.4 | 6158.3 | 6302.8  | 6268.2  | 5978.0  | 5672.3  | 5568.4  | 5583.9  |
| 35°   | 5985.2 | 6011.5 | 6148.8 | 6384.0 | 6567.9 | 6667.1  | 6594.2  | 6293.3  | 5932.6  | 5807.2  | 5807.2  |
| 37.5° | 6458.1 | 6478.4 | 6632.4 | 6860.5 | 7038.4 | 7091.0  | 6948.9  | 6638.4  | 6273.0  | 6095.0  | 6098.6  |
| 40°   | 6911.9 | 6966.8 | 7139.9 | 7374.0 | 7549.5 | 7563.9  | 7375.2  | 7032.5  | 6651.5  | 6467.6  | 6489.1  |
| 42.5° | 7385.9 | 7439.7 | 7646.3 | 7911.4 | 8066.6 | 8090.5  | 7869.6  | 7474.3  | 7079.0  | 6929.8  | 6953.7  |
| 45°   | 7808.7 | 7851.7 | 8090.5 | 8398.6 | 8592.1 | 8654.2  | 8392.6  | 7980.6  | 7541.2  | 7395.5  | 7401.5  |
| 47.5° | 8103.6 | 8159.8 | 8422.5 | 8785.5 | 9067.3 | 9162.9  | 8906.1  | 8473.8  | 7996.2  | 7819.4  | 7835.0  |
| 50°   | 8371.1 | 8401.0 | 8667.3 | 9063.8 | 9422.0 | 9619.0  | 9399.3  | 8961.1  | 8455.9  | 8268.4  | 8285.2  |
| 52.5° | 8520.4 | 8558.6 | 8816.6 | 9229.7 | 9653.7 | 9971.3  | 9837.6  | 9399.3  | 8900.2  | 8717.4  | 8737.7  |
| 55°   | 8416.5 | 8445.2 | 8754.5 | 9266.8 | 9797.0 | 10188.7 | 10209.0 | 9828.0  | 9336.0  | 9176.0  | 9233.3  |
| 57.5° | 7943.6 | 7979.4 | 8356.8 | 9027.9 | 9814.9 | 10335.5 | 10488.4 | 10225.7 | 9743.2  | 9613.1  | 9646.5  |
| 60°   | 7204.4 | 7227.1 | 7629.6 | 8384.3 | 9466.2 | 10396.4 | 10666.3 | 10550.5 | 10142.1 | 10011.9 | 10057.3 |
| 62.5° | 5887.3 | 5920.7 | 6401.9 | 7413.4 | 8729.4 | 10216.1 | 10838.3 | 10819.2 | 10513.5 | 10394.1 | 10434.7 |
| 65°   | 4024.4 | 4082.9 | 4615.5 | 5894.4 | 7593.7 | 9664.4  | 10994.7 | 11132.1 | 10841.9 | 10691.4 | 10745.1 |
| 67.5° | 2430.1 | 2473.1 | 2858.8 | 3891.8 | 5810.8 | 8551.5  | 10833.5 | 11487.9 | 11073.5 | 10831.1 | 10875.3 |
| 68°   | 2172.2 | 2211.6 | 2534.0 | 3512.1 | 5375.0 | 8237.4  | 10686.6 | 11528.5 | 11098.6 | 10828.7 | 10868.1 |
| 70°   | 1312.4 | 1338.7 | 1554.8 | 2171.0 | 3583.7 | 6534.5  | 9684.7  | 11495.1 | 11258.6 | 10862.2 | 10884.9 |
| 72.5° | 855.0  | 863.4  | 899.2  | 1114.2 | 1830.7 | 3654.2  | 7268.9  | 10711.7 | 11498.7 | 11056.8 | 11053.2 |
| 75°   | 710.5  | 705.8  | 709.3  | 734.4  | 902.8  | 1602.6  | 4247.7  | 8461.9  | 10961.3 | 10749.9 | 10674.7 |
| 77.5° | 600.7  | 597.1  | 595.9  | 597.1  | 604.3  | 773.8   | 1843.8  | 5271.1  | 8387.9  | 9509.2  | 9576.1  |
| 80°   | 486.0  | 481.3  | 496.8  | 489.6  | 468.1  | 481.3   | 772.6   | 2192.5  | 3953.9  | 4253.6  | 3986.1  |
| 82.5° | 353.5  | 335.6  | 402.4  | 383.3  | 365.4  | 339.1   | 426.3   | 708.1   | 943.4   | 647.2   | 455.0   |
| 85°   | 272.3  | 253.2  | 305.7  | 293.8  | 250.8  | 173.2   | 253.2   | 346.3   | 382.1   | 218.5   | 172.0   |
| 87.5° | 111.1  | 117.0  | 220.9  | 174.3  | 146.9  | 83.6    | 103.9   | 138.5   | 186.3   | 93.1    | 71.7    |
| 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)