

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: P316691

Luminaire Tested: **GAN-SA7C-722-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-722-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38634 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

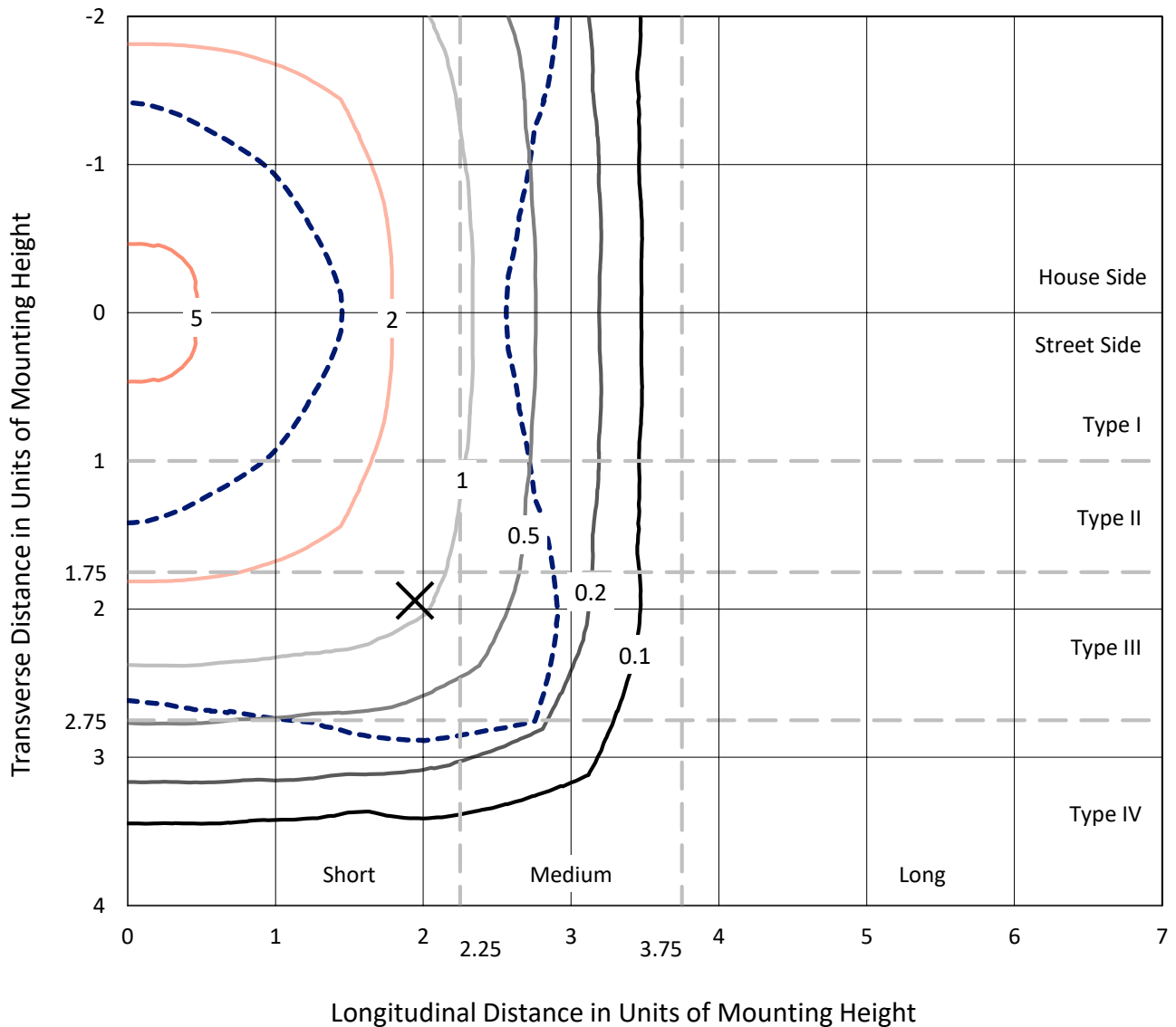
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

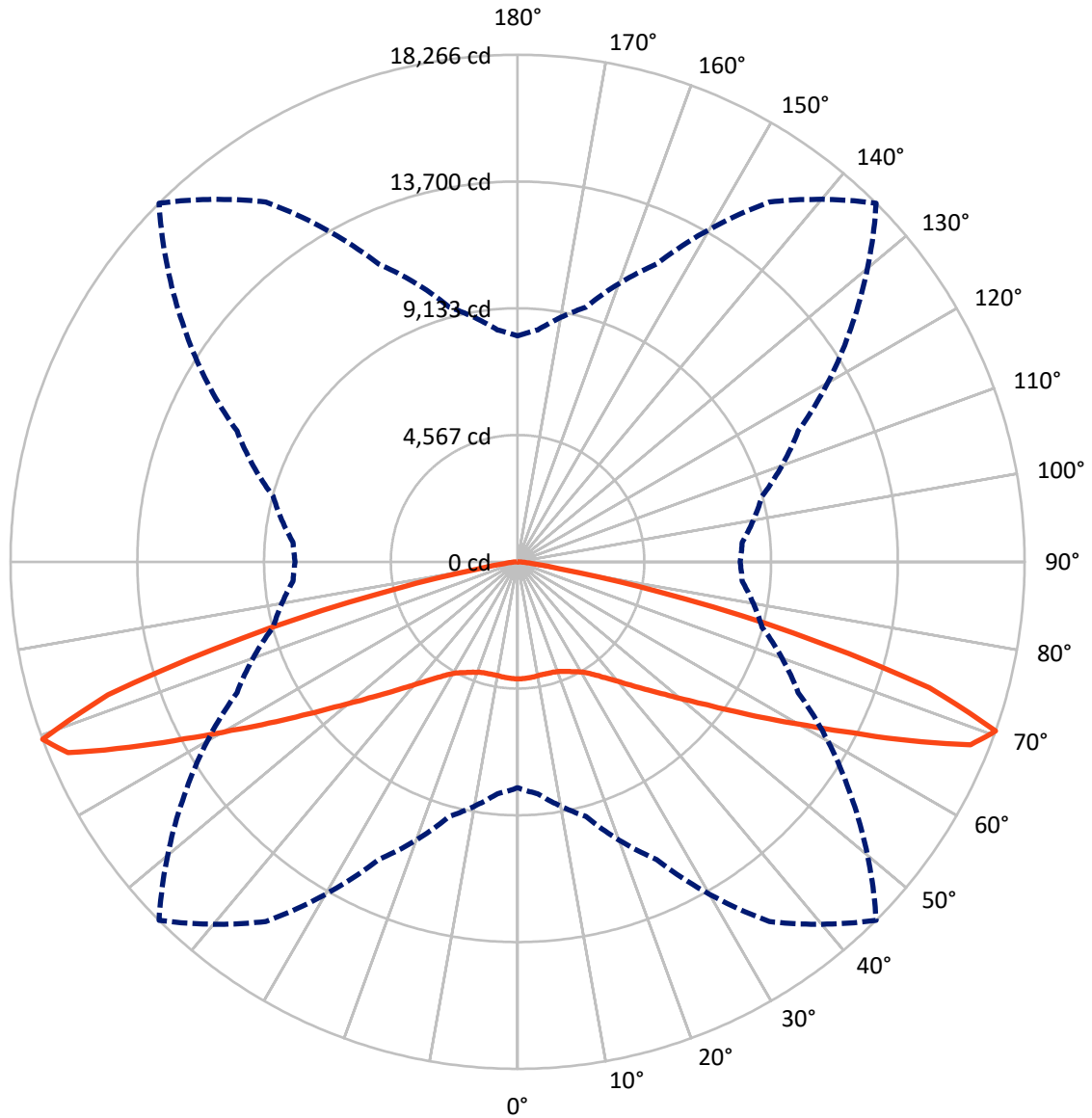
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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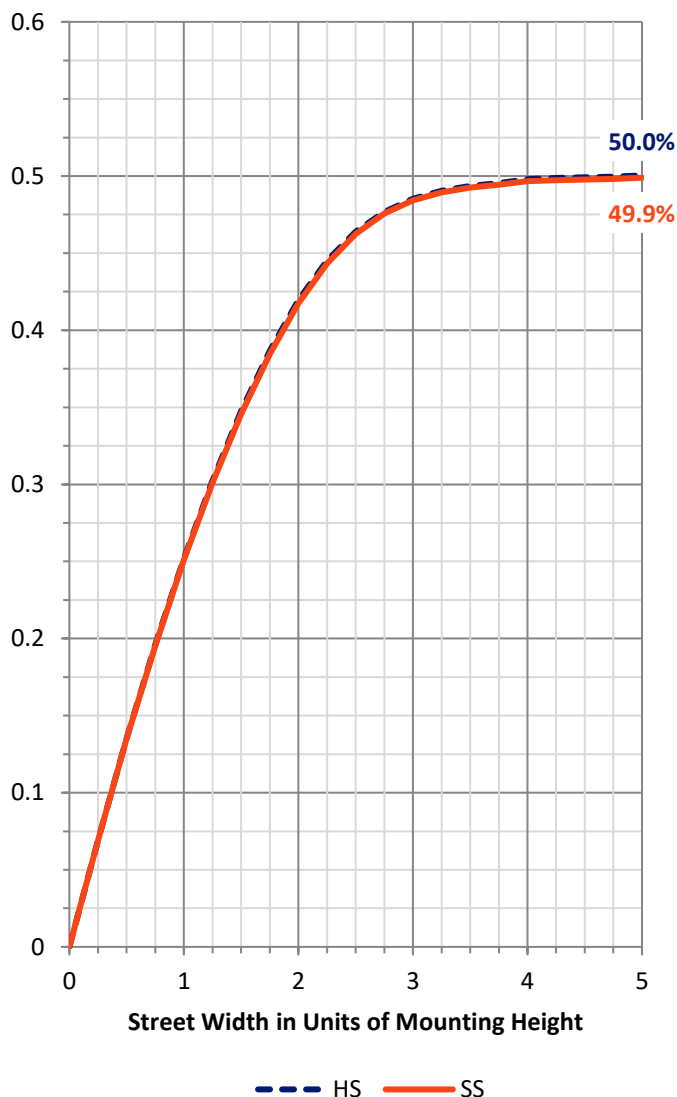
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19317.0  | 0.0    | 19317.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19317.0  | 0.0    | 19317.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 38634.0  | 0.0    | 38634.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 399.6   | 1.0       |
| 10°-20°   | 1173.2  | 3.0       |
| 20°-30°   | 1997.2  | 5.2       |
| 30°-40°   | 3167.5  | 8.2       |
| 40°-50°   | 5154.4  | 13.3      |
| 50°-60°   | 8498.8  | 22.0      |
| 60°-70°   | 12476.4 | 32.3      |
| 70°-80°   | 5517.1  | 14.3      |
| 80°-90°   | 249.8   | 0.6       |
| 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°    | 38634.0 | 100.0     |
| 0°-180°   | 38634.0 | 100.0     |

**Coefficient of Utilization**

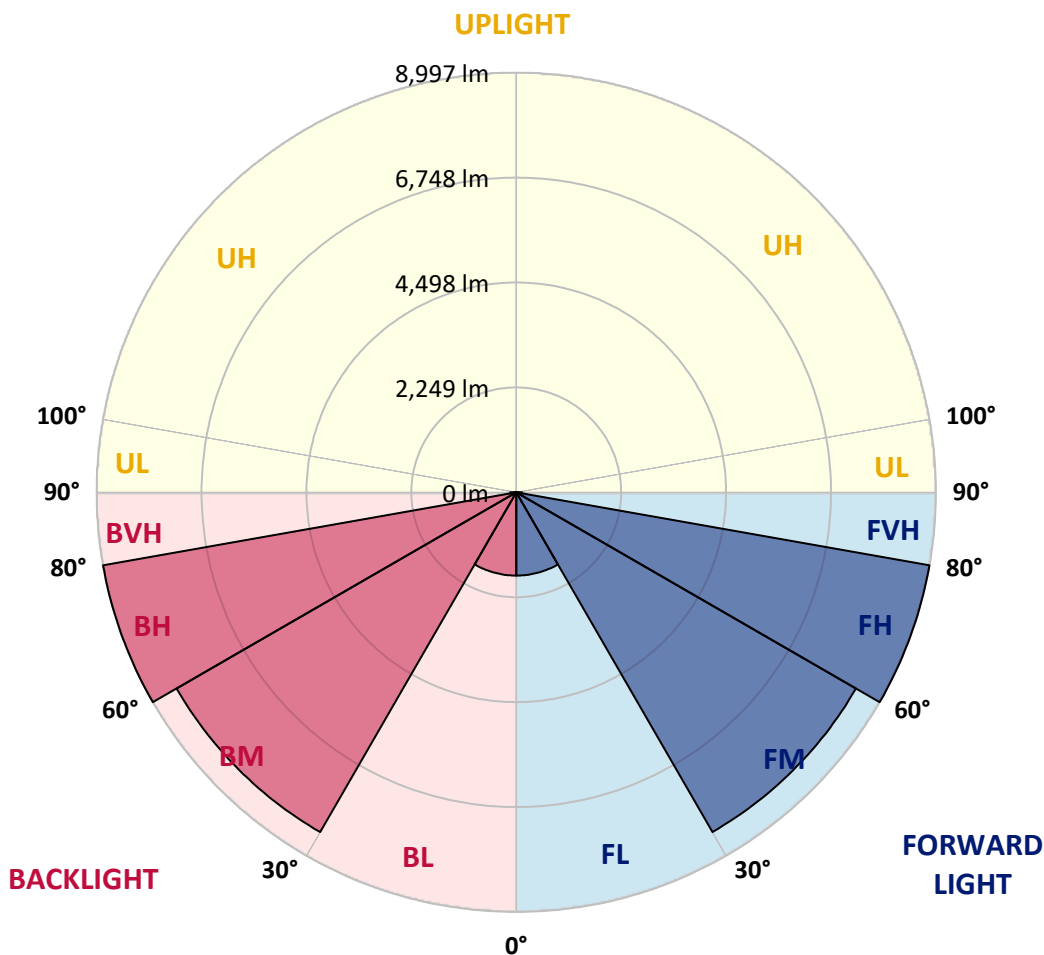


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1785.0 | 4.6       |                         |      |          |
| FM (30°-60°)   | 8410.3 | 21.8      |                         |      |          |
| FH (60°-80°)   | 8996.7 | 23.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 124.9  | 0.3       |                         |      | G2/225   |
| BL (0°-30°)    | 1785.0 | 4.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 8410.3 | 21.8      | B4/8500                 |      |          |
| BH (60°-80°)   | 8996.7 | 23.3      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 124.9  | 0.3       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4219.4  | 4219.4  | 4219.4  | 4219.4  | 4219.4  | 4219.4  | 4219.4  | 4219.4  | 4219.4  | 4219.4  | 4219.4  |
| 2.5°  | 4213.0  | 4209.2  | 4218.2  | 4216.9  | 4209.2  | 4210.5  | 4210.5  | 4214.3  | 4214.3  | 4211.8  | 4211.8  |
| 5°    | 4197.7  | 4195.1  | 4205.4  | 4205.4  | 4197.7  | 4200.3  | 4202.8  | 4206.6  | 4205.4  | 4202.8  | 4201.5  |
| 7.5°  | 4178.5  | 4177.2  | 4187.5  | 4187.5  | 4182.4  | 4184.9  | 4182.4  | 4183.6  | 4181.1  | 4178.5  | 4174.7  |
| 10°   | 4146.6  | 4149.1  | 4158.1  | 4160.6  | 4160.6  | 4161.9  | 4159.3  | 4152.9  | 4149.1  | 4145.3  | 4141.4  |
| 12.5° | 4117.1  | 4115.9  | 4128.7  | 4135.0  | 4145.3  | 4156.8  | 4149.1  | 4131.2  | 4123.5  | 4115.9  | 4113.3  |
| 15°   | 4098.0  | 4099.2  | 4112.0  | 4123.5  | 4141.4  | 4165.7  | 4156.8  | 4128.7  | 4113.3  | 4104.4  | 4101.8  |
| 17.5° | 4094.1  | 4096.7  | 4113.3  | 4133.8  | 4152.9  | 4179.8  | 4174.7  | 4146.6  | 4121.0  | 4104.4  | 4100.5  |
| 20°   | 4103.1  | 4104.4  | 4129.9  | 4159.3  | 4192.6  | 4218.2  | 4206.6  | 4176.0  | 4141.4  | 4115.9  | 4109.5  |
| 22.5° | 4119.7  | 4124.8  | 4156.8  | 4202.8  | 4254.0  | 4288.5  | 4274.4  | 4222.0  | 4168.3  | 4136.3  | 4127.4  |
| 25°   | 4172.1  | 4173.4  | 4216.9  | 4279.5  | 4340.9  | 4380.5  | 4363.9  | 4289.8  | 4220.7  | 4184.9  | 4173.4  |
| 27.5° | 4280.8  | 4284.6  | 4328.1  | 4401.0  | 4453.4  | 4479.0  | 4468.8  | 4408.7  | 4349.9  | 4311.5  | 4315.3  |
| 30°   | 4438.1  | 4443.2  | 4491.8  | 4572.3  | 4604.3  | 4610.7  | 4608.1  | 4580.0  | 4526.3  | 4475.2  | 4479.0  |
| 32.5° | 4629.9  | 4632.4  | 4697.6  | 4770.5  | 4796.1  | 4801.2  | 4796.1  | 4770.5  | 4706.6  | 4637.5  | 4641.4  |
| 35°   | 4876.6  | 4884.3  | 4947.0  | 5017.3  | 5037.7  | 5048.0  | 5039.0  | 5005.8  | 4939.3  | 4871.5  | 4869.0  |
| 37.5° | 5181.0  | 5182.2  | 5247.4  | 5320.3  | 5345.9  | 5348.5  | 5338.2  | 5316.5  | 5233.4  | 5172.0  | 5168.2  |
| 40°   | 5533.9  | 5539.0  | 5615.7  | 5693.7  | 5703.9  | 5692.4  | 5706.5  | 5693.7  | 5608.0  | 5537.7  | 5549.2  |
| 42.5° | 5963.5  | 5975.0  | 6067.0  | 6143.8  | 6114.3  | 6108.0  | 6116.9  | 6120.7  | 6051.7  | 5966.0  | 5958.4  |
| 45°   | 6463.4  | 6473.6  | 6588.7  | 6650.1  | 6630.9  | 6588.7  | 6606.6  | 6637.3  | 6541.4  | 6435.3  | 6445.5  |
| 47.5° | 7033.7  | 7059.2  | 7182.0  | 7239.5  | 7192.2  | 7134.7  | 7169.2  | 7215.2  | 7102.7  | 6971.0  | 6964.6  |
| 50°   | 7667.9  | 7699.8  | 7863.5  | 7944.0  | 7896.7  | 7790.6  | 7848.1  | 7878.8  | 7716.4  | 7546.4  | 7532.3  |
| 52.5° | 8344.3  | 8376.2  | 8582.1  | 8748.3  | 8717.6  | 8552.7  | 8633.2  | 8601.3  | 8414.6  | 8185.7  | 8167.8  |
| 55°   | 9110.1  | 9122.9  | 9345.4  | 9613.9  | 9644.6  | 9523.1  | 9518.0  | 9465.6  | 9189.4  | 8924.7  | 8912.0  |
| 57.5° | 9897.8  | 9906.7  | 10194.4 | 10511.5 | 10656.0 | 10656.0 | 10512.8 | 10401.5 | 10034.6 | 9727.7  | 9695.7  |
| 60°   | 10748.0 | 10780.0 | 11098.4 | 11529.3 | 11866.8 | 11966.6 | 11713.4 | 11410.4 | 11011.4 | 10636.8 | 10599.7 |
| 62.5° | 11505.0 | 11542.1 | 12029.2 | 12671.1 | 13213.2 | 13576.3 | 12957.5 | 12464.0 | 11737.7 | 11136.7 | 11066.4 |
| 65°   | 11600.9 | 11700.6 | 12410.3 | 13572.5 | 14785.9 | 15510.9 | 14324.3 | 13108.4 | 11785.0 | 10950.1 | 10878.5 |
| 67.5° | 10594.6 | 10763.4 | 11722.4 | 13531.6 | 16039.0 | 17595.0 | 15197.6 | 12740.1 | 10936.0 | 10012.8 | 9933.6  |
| 70°   | 8141.0  | 8386.4  | 9492.4  | 11836.2 | 15822.9 | 18266.3 | 14650.4 | 11153.4 | 9117.8  | 8124.3  | 8013.1  |
| 72.5° | 4466.2  | 4567.2  | 5562.0  | 8105.1  | 12685.2 | 15522.4 | 12219.7 | 8247.1  | 6046.6  | 4920.1  | 4733.4  |
| 75°   | 1416.7  | 1452.5  | 1958.8  | 3316.7  | 7175.6  | 10281.4 | 7762.5  | 4048.1  | 2228.6  | 1643.0  | 1623.8  |
| 77.5° | 629.1   | 632.9   | 708.4   | 967.9   | 2471.6  | 5209.1  | 2968.9  | 1102.2  | 759.5   | 663.6   | 685.3   |
| 80°   | 397.6   | 397.6   | 438.6   | 479.5   | 672.6   | 1512.6  | 803.0   | 524.2   | 447.5   | 415.6   | 424.5   |
| 82.5° | 190.5   | 211.0   | 285.1   | 306.9   | 369.5   | 508.9   | 411.7   | 342.7   | 299.2   | 222.5   | 207.1   |
| 85°   | 125.3   | 104.8   | 180.3   | 203.3   | 214.8   | 244.2   | 239.1   | 226.3   | 195.6   | 111.2   | 124.0   |
| 87.5° | 56.3    | 53.7    | 93.3    | 85.7    | 80.6    | 61.4    | 92.1    | 113.8   | 110.0   | 55.0    | 55.0    |
| 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)