

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: P533135

Luminaire Tested: **GLAN-SA8C-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-740-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34071 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 429  
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



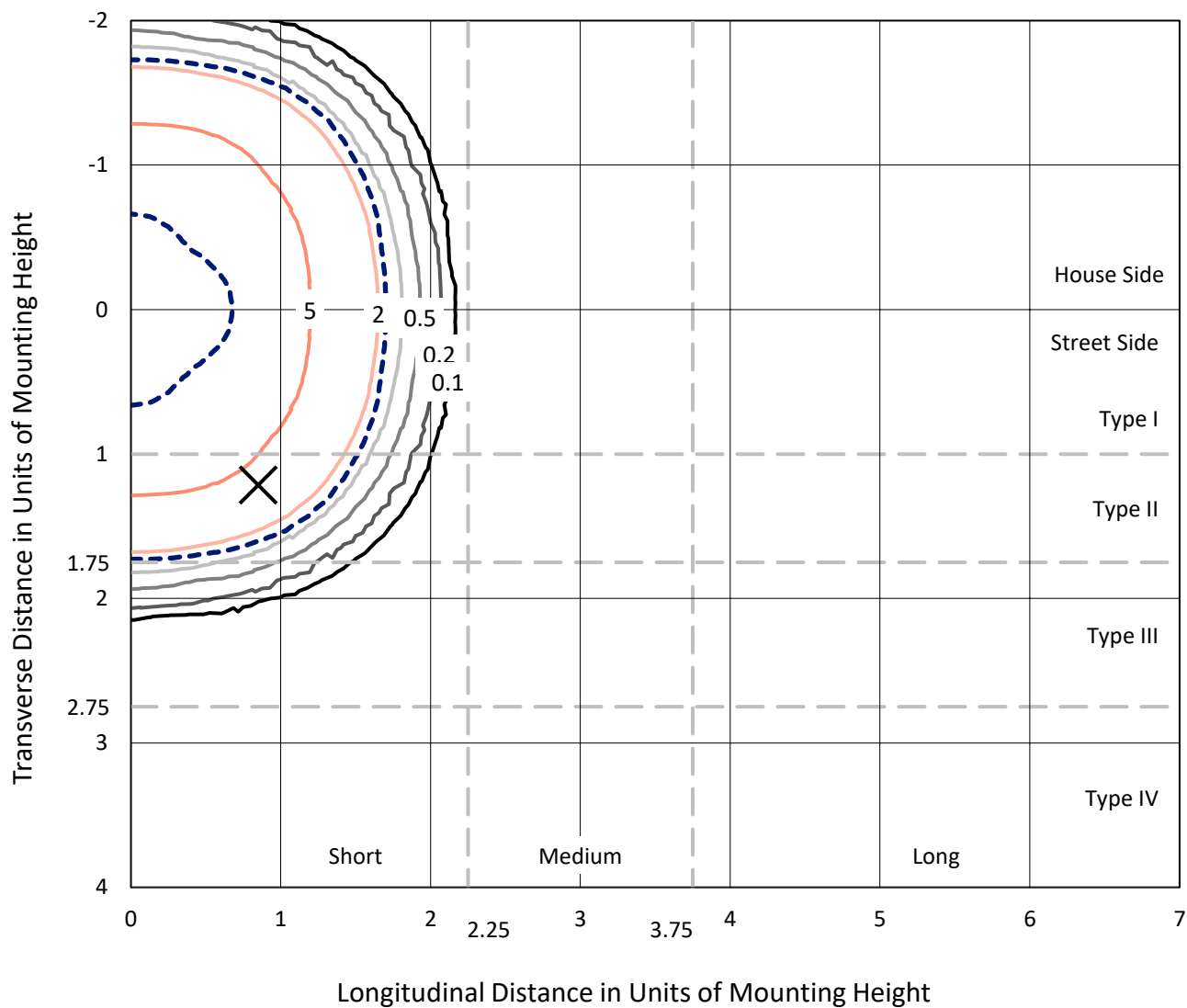
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

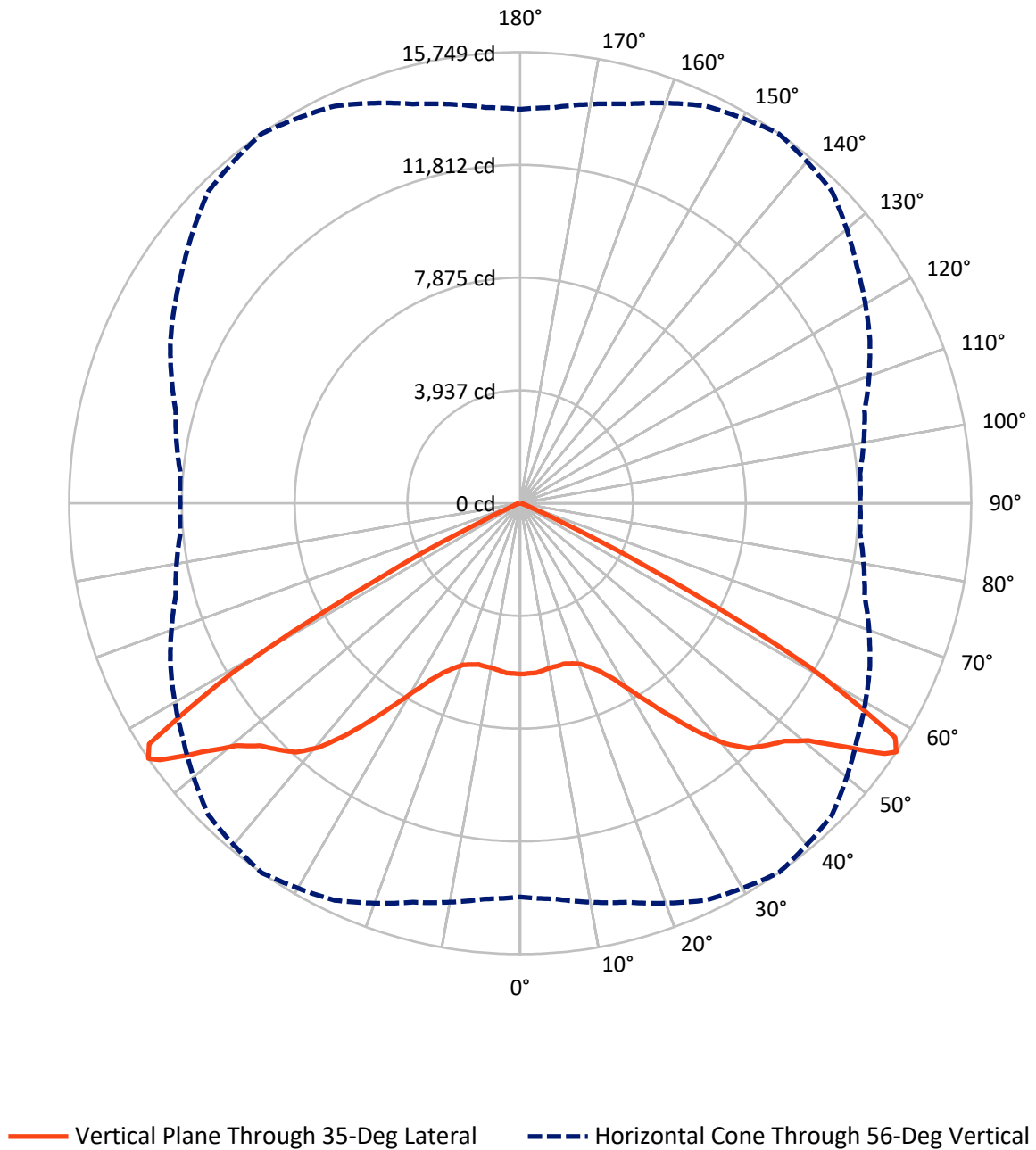
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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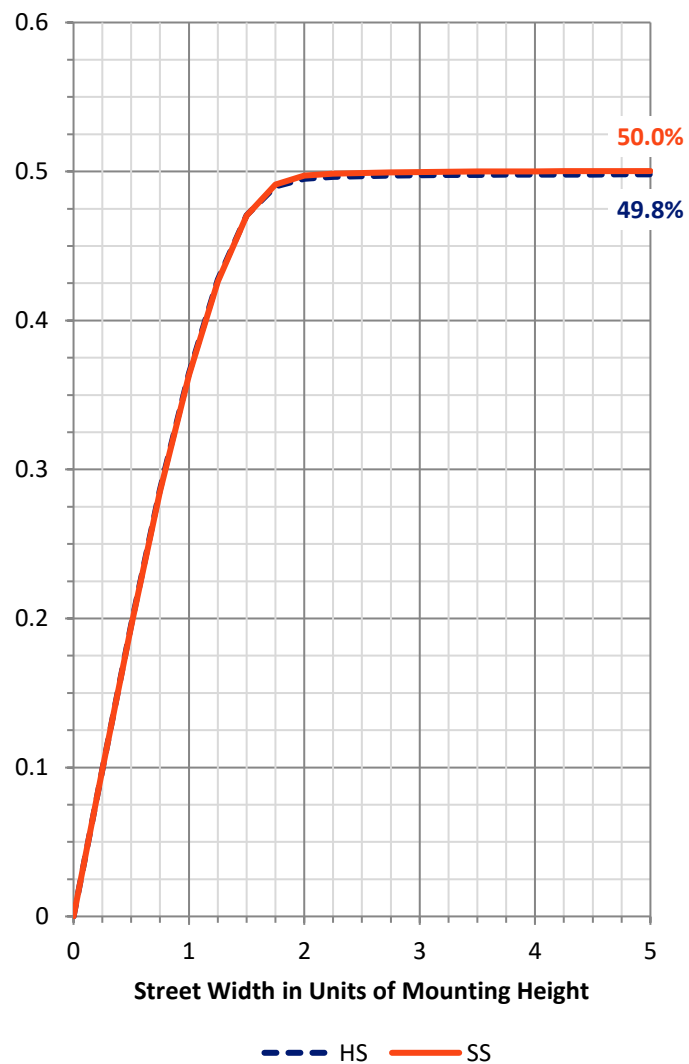
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17035.5  | 0.0    | 17035.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17035.5  | 0.0    | 17035.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34071.0  | 0.0    | 34071.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 561.1   | 1.6       |
| 10°-20°   | 1638.1  | 4.8       |
| 20°-30°   | 2966.4  | 8.7       |
| 30°-40°   | 5500.7  | 16.1      |
| 40°-50°   | 9029.0  | 26.5      |
| 50°-60°   | 11632.1 | 34.1      |
| 60°-70°   | 2563.6  | 7.5       |
| 70°-80°   | 148.7   | 0.4       |
| 80°-90°   | 31.3    | 0.1       |
| 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°    | 34071.0 | 100.0     |
| 0°-180°   | 34071.0 | 100.0     |

**Coefficient of Utilization**



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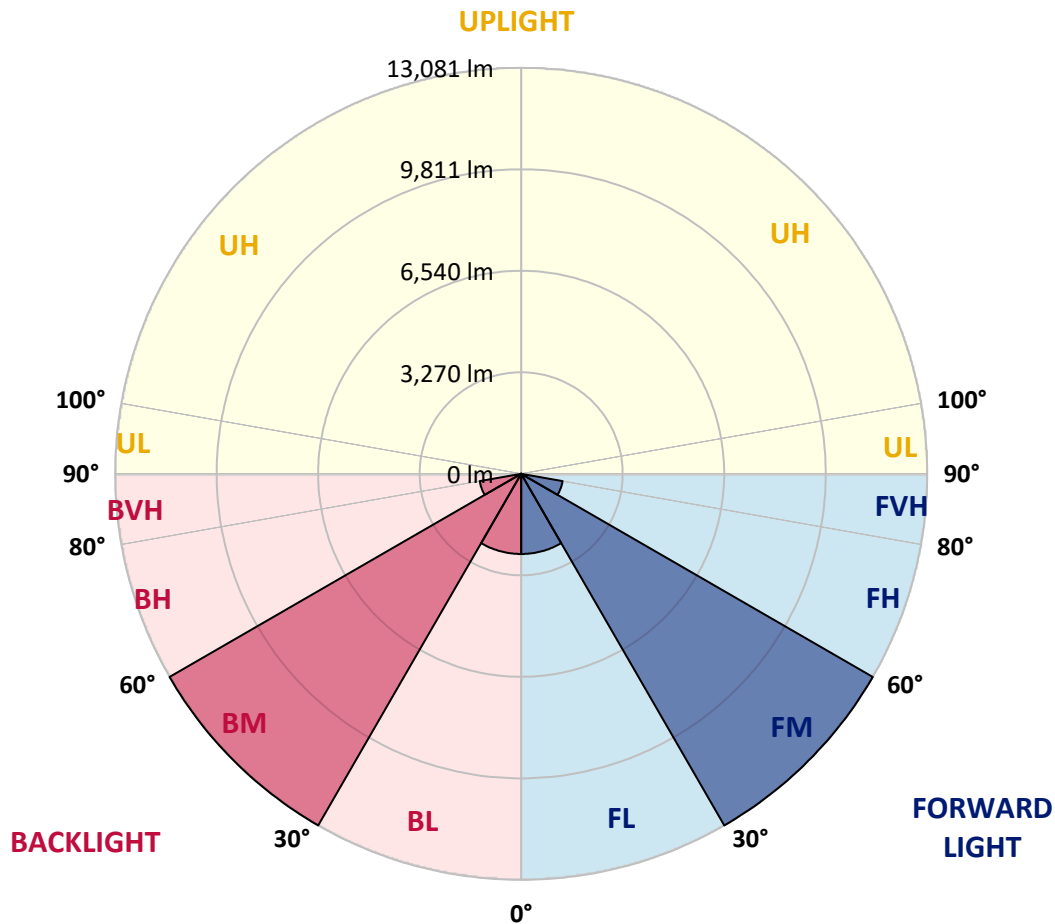
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2582.8  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 13080.9 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 1356.2  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 15.7    | 0.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2582.8  | 7.6       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 13080.9 | 38.4      | B5                      |      |         |
| BH   | (60°-80°)   | 1356.2  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 15.7    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5970.0  | 5970.0  | 5970.0  | 5970.0  | 5970.0  | 5970.0  | 5970.0  | 5970.0  | 5970.0  | 5970.0  | 5970.0  |
| 2.5°  | 5982.3  | 5982.3  | 5988.5  | 5994.7  | 5951.5  | 5932.9  | 5939.1  | 5926.8  | 5920.6  | 5939.1  | 5939.1  |
| 5°    | 5963.8  | 5963.8  | 5945.3  | 5951.5  | 5951.5  | 5895.9  | 5895.9  | 5908.2  | 5908.2  | 5871.2  | 5858.8  |
| 7.5°  | 5914.4  | 5902.1  | 5877.4  | 5908.2  | 5889.7  | 5889.7  | 5846.5  | 5815.6  | 5803.3  | 5828.0  | 5803.3  |
| 10°   | 5809.5  | 5815.6  | 5840.3  | 5852.7  | 5840.3  | 5877.4  | 5803.3  | 5760.1  | 5716.9  | 5698.3  | 5698.3  |
| 12.5° | 5760.1  | 5797.1  | 5760.1  | 5790.9  | 5834.2  | 5803.3  | 5760.1  | 5729.2  | 5667.5  | 5642.8  | 5642.8  |
| 15°   | 5753.9  | 5778.6  | 5790.9  | 5834.2  | 5815.6  | 5828.0  | 5741.5  | 5704.5  | 5611.9  | 5568.7  | 5550.2  |
| 17.5° | 5747.7  | 5778.6  | 5797.1  | 5877.4  | 5889.7  | 5895.9  | 5828.0  | 5716.9  | 5636.6  | 5593.4  | 5550.2  |
| 20°   | 5815.6  | 5828.0  | 5865.0  | 5945.3  | 5994.7  | 6081.1  | 5957.6  | 5840.3  | 5667.5  | 5618.1  | 5599.5  |
| 22.5° | 5902.1  | 5963.8  | 6000.8  | 6087.3  | 6216.9  | 6291.0  | 6130.5  | 5982.3  | 5803.3  | 5741.5  | 5667.5  |
| 25°   | 6179.9  | 6167.5  | 6229.3  | 6408.3  | 6513.3  | 6568.8  | 6439.2  | 6223.1  | 5988.5  | 5914.4  | 5926.8  |
| 27.5° | 6525.6  | 6538.0  | 6593.5  | 6791.1  | 6945.4  | 7031.8  | 6877.5  | 6593.5  | 6365.1  | 6241.6  | 6229.3  |
| 30°   | 6976.3  | 6963.9  | 7025.7  | 7291.1  | 7569.0  | 7698.6  | 7427.0  | 7093.6  | 6871.3  | 6710.8  | 6747.9  |
| 32.5° | 7451.7  | 7457.8  | 7630.7  | 7871.5  | 8322.2  | 8575.3  | 8136.9  | 7729.5  | 7396.1  | 7285.0  | 7229.4  |
| 35°   | 8155.5  | 8186.3  | 8322.2  | 8692.6  | 9192.6  | 9519.9  | 9038.3  | 8550.6  | 8167.8  | 7964.1  | 7988.8  |
| 37.5° | 9026.0  | 8995.1  | 9223.5  | 9624.8  | 10149.6 | 10390.3 | 9982.9  | 9427.2  | 9038.3  | 8902.5  | 8988.9  |
| 40°   | 9952.0  | 9982.9  | 10100.2 | 10464.4 | 11050.9 | 11211.4 | 10606.4 | 10303.9 | 9964.4  | 9896.4  | 10001.4 |
| 42.5° | 10878.1 | 10859.5 | 10946.0 | 11273.2 | 11699.2 | 11588.0 | 11230.0 | 11050.9 | 10810.2 | 10674.3 | 10816.3 |
| 45°   | 11557.2 | 11526.3 | 11686.8 | 11909.1 | 12063.4 | 11853.5 | 11693.0 | 11631.3 | 11507.8 | 11359.6 | 11489.3 |
| 47.5° | 12217.8 | 12193.1 | 12347.4 | 12409.1 | 12421.5 | 12143.7 | 12174.5 | 12285.7 | 11977.0 | 11668.3 | 11816.5 |
| 50°   | 12779.6 | 12736.4 | 12927.7 | 13063.6 | 13032.7 | 12588.2 | 12699.3 | 12588.2 | 12106.6 | 11742.4 | 11686.8 |
| 52.5° | 13718.0 | 13736.5 | 13940.2 | 14187.2 | 14113.1 | 13742.7 | 13582.1 | 13075.9 | 12458.5 | 12131.3 | 11939.9 |
| 55°   | 14310.6 | 14218.0 | 14569.9 | 15354.0 | 15440.4 | 15057.7 | 14347.7 | 13600.7 | 12674.6 | 12273.3 | 12223.9 |
| 56°   | 13755.0 | 13872.3 | 14427.9 | 15304.6 | 15749.1 | 15397.2 | 14366.2 | 13471.0 | 12452.4 | 11909.1 | 11872.0 |
| 57.5° | 12341.2 | 12279.5 | 13032.7 | 14230.4 | 15440.4 | 15292.3 | 13860.0 | 12545.0 | 11359.6 | 10748.4 | 10674.3 |
| 60°   | 7680.1  | 7859.1  | 8519.7  | 10001.4 | 11618.9 | 11693.0 | 10273.0 | 9143.3  | 7760.3  | 7217.1  | 7346.7  |
| 62.5° | 3006.6  | 2852.3  | 3265.9  | 4371.0  | 5482.2  | 5729.2  | 5192.1  | 4315.4  | 3543.7  | 3006.6  | 2969.6  |
| 65°   | 697.6   | 679.1   | 765.5   | 1055.7  | 1475.5  | 1710.1  | 1623.7  | 1166.8  | 858.1   | 814.9   | 753.2   |
| 67.5° | 395.1   | 395.1   | 376.6   | 376.6   | 413.6   | 438.3   | 419.8   | 413.6   | 432.2   | 450.7   | 444.5   |
| 70°   | 277.8   | 271.6   | 259.3   | 265.5   | 253.1   | 253.1   | 271.6   | 302.5   | 327.2   | 327.2   | 333.4   |
| 72.5° | 166.7   | 166.7   | 166.7   | 185.2   | 185.2   | 185.2   | 203.7   | 228.4   | 234.6   | 228.4   | 222.3   |
| 75°   | 74.1    | 74.1    | 86.4    | 105.0   | 117.3   | 123.5   | 142.0   | 154.3   | 166.7   | 154.3   | 142.0   |
| 77.5° | 18.5    | 18.5    | 30.9    | 43.2    | 55.6    | 67.9    | 92.6    | 111.1   | 117.3   | 111.1   | 92.6    |
| 80°   | 6.2     | 6.2     | 12.3    | 30.9    | 55.6    | 67.9    | 92.6    | 98.8    | 105.0   | 92.6    | 74.1    |
| 82.5° | 6.2     | 6.2     | 12.3    | 30.9    | 43.2    | 55.6    | 74.1    | 86.4    | 92.6    | 80.3    | 74.1    |
| 85°   | 0.0     | 6.2     | 12.3    | 24.7    | 37.0    | 49.4    | 49.4    | 37.0    | 30.9    | 18.5    | 24.7    |
| 87.5° | 0.0     | 0.0     | 6.2     | 6.2     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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)