

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: P639338

Luminaire Tested: **USSL-M-PA6C-740-U-5WQ**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-M-PA6C-740-U-5WQ  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE V WIDE OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63909 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B5 - U0 - G5

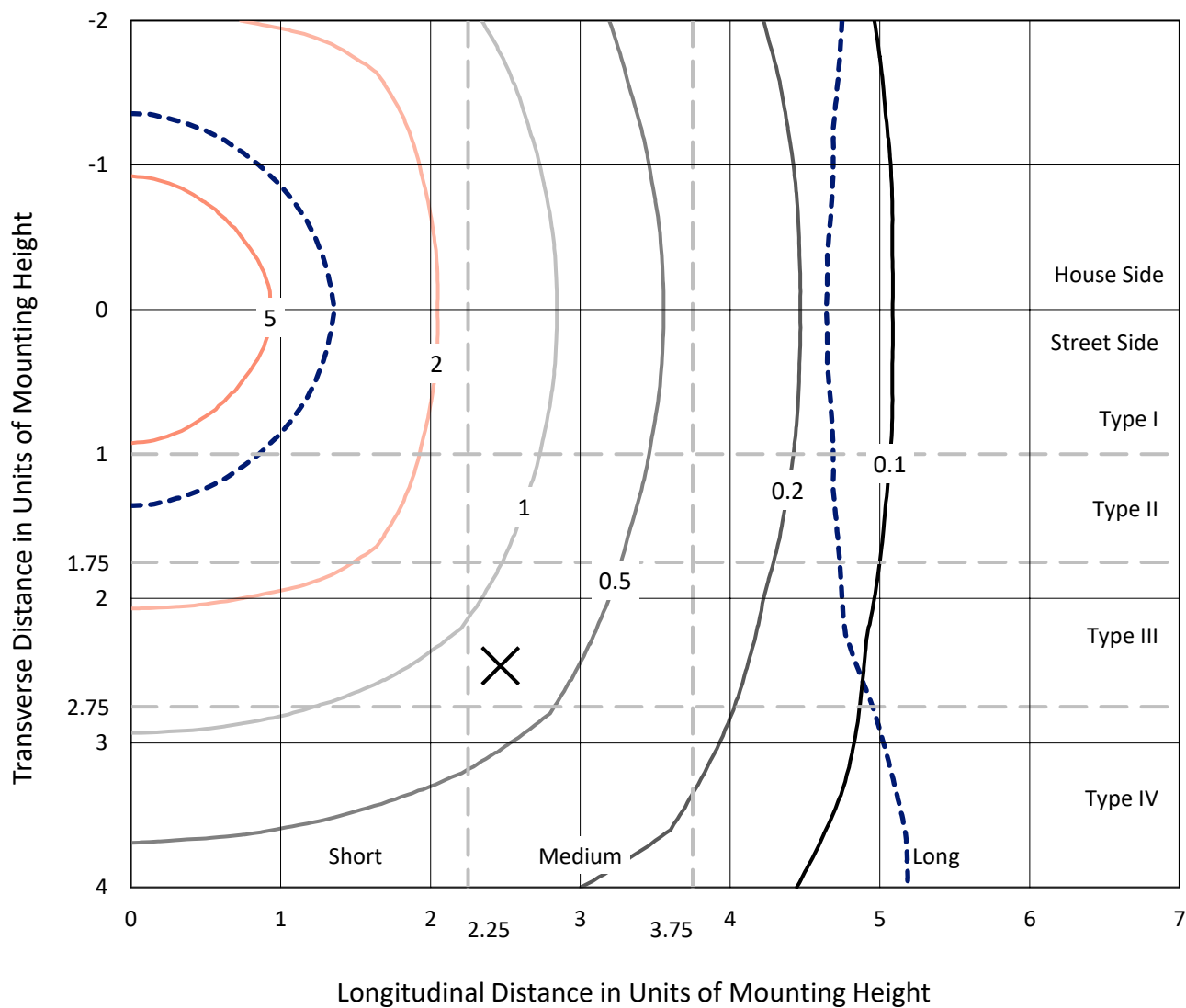
Input Watts (W): 457.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

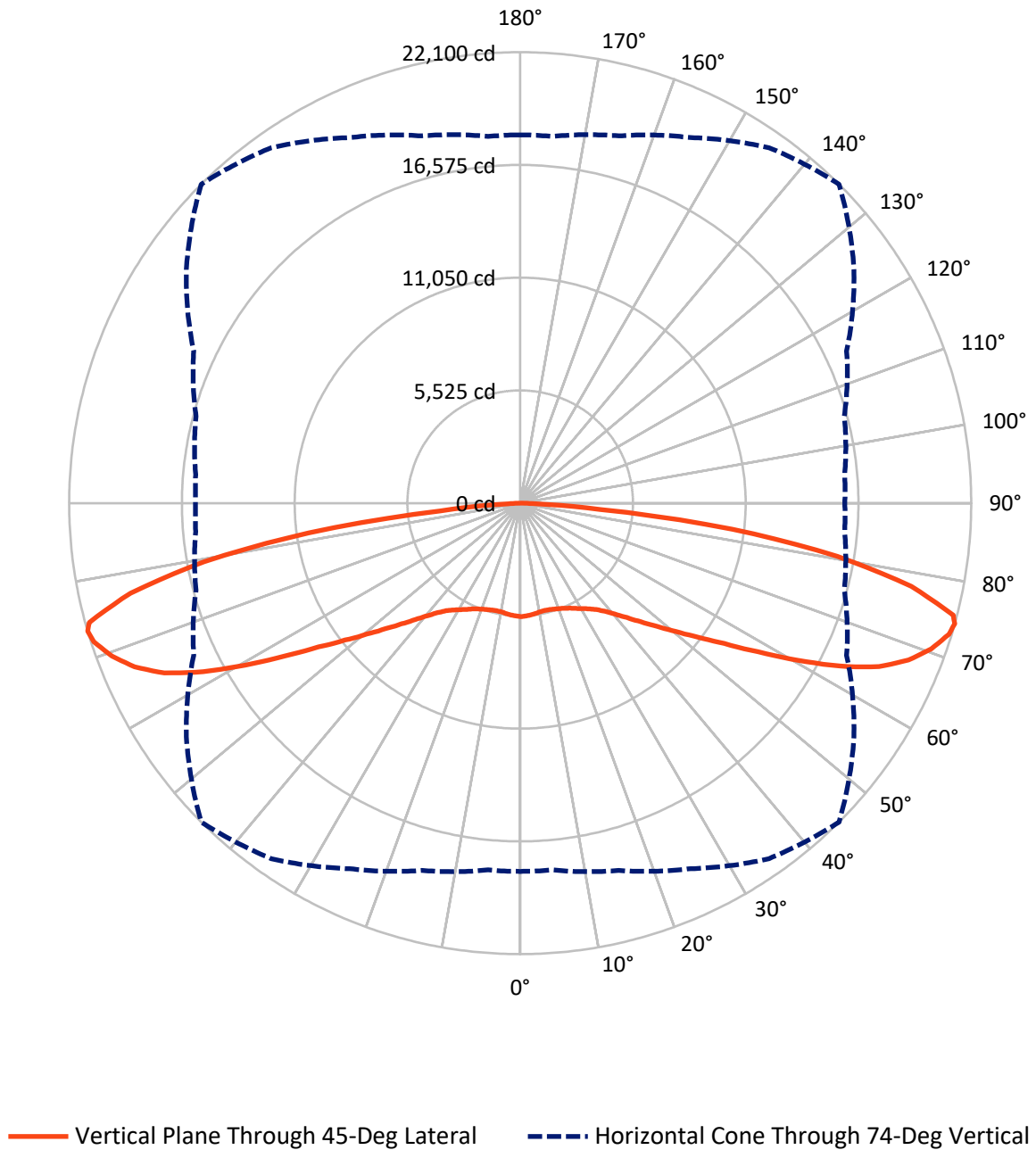
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type V - Medium - N/A

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## Luminous Intensity Polar Plot



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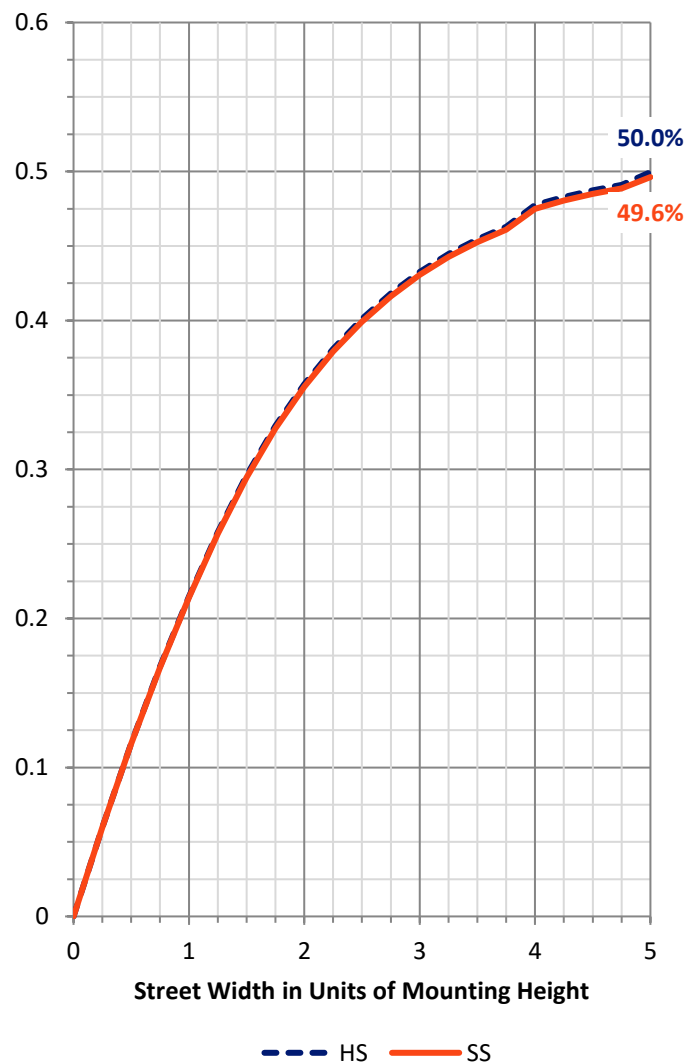
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 31954.5  | 0.0    | 31954.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 31954.5  | 0.0    | 31954.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 63909.0  | 0.0    | 63909.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 523.1   | 0.8       |
| 10°-20°   | 1551.4  | 2.4       |
| 20°-30°   | 2664.8  | 4.2       |
| 30°-40°   | 4100.2  | 6.4       |
| 40°-50°   | 6572.2  | 10.3      |
| 50°-60°   | 10731.1 | 16.8      |
| 60°-70°   | 16733.0 | 26.2      |
| 70°-80°   | 17848.3 | 27.9      |
| 80°-90°   | 3185.1  | 5.0       |
| 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°    | 63909.0 | 100.0     |
| 0°-180°   | 63909.0 | 100.0     |

**Coefficient of Utilization**



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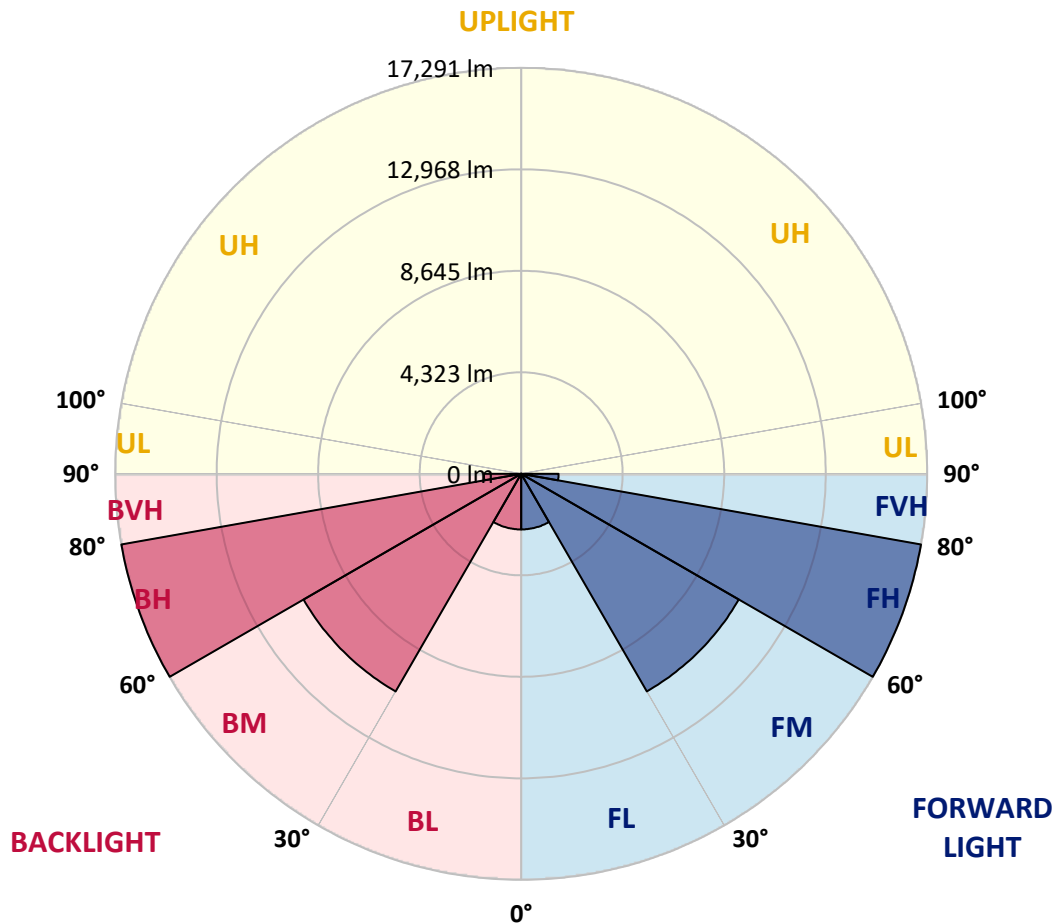
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |    |
|------|-------------|---------|-----------|-------------------------|------|----|
|      |             |         |           | B                       | U    | G  |
| FL   | (0°-30°)    | 2369.6  | 3.7       |                         |      |    |
| FM   | (30°-60°)   | 10701.7 | 16.7      |                         |      |    |
| FH   | (60°-80°)   | 17290.6 | 27.1      |                         |      | G5 |
| FVH  | (80°-90°)   | 1592.5  | 2.5       |                         |      | G5 |
| BL   | (0°-30°)    | 2369.6  | 3.7       | B3/2500                 |      |    |
| BM   | (30°-60°)   | 10701.7 | 16.7      | B5                      |      |    |
| BH   | (60°-80°)   | 17290.6 | 27.1      | B5                      |      | G5 |
| BVH  | (80°-90°)   | 1592.5  | 2.5       |                         |      | G5 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |    |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |    |

**BUG Rating: B5-U0-G5**

Type V Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5561.0  | 5561.0  | 5561.0  | 5561.0  | 5561.0  | 5561.0  | 5561.0  | 5561.0  | 5561.0  | 5561.0  | 5561.0  |
| 2.5°  | 5555.0  | 5564.0  | 5556.5  | 5543.1  | 5537.2  | 5532.7  | 5535.7  | 5544.6  | 5555.0  | 5559.5  | 5555.0  |
| 5°    | 5498.5  | 5505.9  | 5503.0  | 5495.5  | 5498.5  | 5500.0  | 5505.9  | 5517.8  | 5526.8  | 5529.7  | 5529.7  |
| 7.5°  | 5433.0  | 5440.5  | 5441.9  | 5439.0  | 5450.9  | 5455.3  | 5464.3  | 5476.2  | 5486.6  | 5494.0  | 5495.5  |
| 10°   | 5418.1  | 5418.1  | 5413.7  | 5404.7  | 5407.7  | 5410.7  | 5422.6  | 5443.4  | 5464.3  | 5474.7  | 5480.6  |
| 12.5° | 5443.4  | 5443.4  | 5428.5  | 5406.2  | 5394.3  | 5392.8  | 5404.7  | 5434.5  | 5470.2  | 5492.5  | 5492.5  |
| 15°   | 5488.1  | 5483.6  | 5462.8  | 5434.5  | 5418.1  | 5410.7  | 5419.6  | 5449.4  | 5494.0  | 5523.8  | 5526.8  |
| 17.5° | 5526.8  | 5526.8  | 5505.9  | 5476.2  | 5458.3  | 5455.3  | 5456.8  | 5480.6  | 5526.8  | 5562.5  | 5569.9  |
| 20°   | 5569.9  | 5571.4  | 5552.1  | 5525.3  | 5513.4  | 5511.9  | 5516.3  | 5529.7  | 5571.4  | 5610.1  | 5617.5  |
| 22.5° | 5644.3  | 5642.8  | 5620.5  | 5592.2  | 5587.8  | 5590.7  | 5593.7  | 5604.1  | 5645.8  | 5687.5  | 5684.5  |
| 25°   | 5747.0  | 5752.9  | 5724.7  | 5697.9  | 5696.4  | 5699.4  | 5702.4  | 5715.7  | 5757.4  | 5799.1  | 5796.1  |
| 27.5° | 5872.0  | 5879.4  | 5848.2  | 5827.4  | 5833.3  | 5843.7  | 5839.3  | 5845.2  | 5875.0  | 5918.1  | 5909.2  |
| 30°   | 6017.8  | 6008.9  | 5991.0  | 5985.1  | 5995.5  | 5995.5  | 5989.6  | 5988.1  | 6007.4  | 6047.6  | 6037.2  |
| 32.5° | 6200.9  | 6196.4  | 6174.1  | 6169.6  | 6177.1  | 6169.6  | 6166.6  | 6174.1  | 6197.9  | 6238.1  | 6232.1  |
| 35°   | 6474.7  | 6464.3  | 6436.0  | 6415.1  | 6413.7  | 6395.8  | 6403.2  | 6431.5  | 6476.2  | 6510.4  | 6510.4  |
| 37.5° | 6797.6  | 6816.9  | 6787.2  | 6748.5  | 6723.2  | 6712.8  | 6724.7  | 6772.3  | 6843.7  | 6877.9  | 6877.9  |
| 40°   | 7269.3  | 7275.3  | 7233.6  | 7187.5  | 7159.2  | 7141.3  | 7154.7  | 7209.8  | 7303.5  | 7348.2  | 7327.3  |
| 42.5° | 7814.0  | 7814.0  | 7775.3  | 7715.7  | 7671.1  | 7666.6  | 7678.5  | 7742.5  | 7843.7  | 7889.8  | 7861.6  |
| 45°   | 8486.6  | 8440.4  | 8404.7  | 8337.8  | 8291.6  | 8293.1  | 8306.5  | 8369.0  | 8458.3  | 8523.8  | 8492.5  |
| 47.5° | 9183.0  | 9147.3  | 9116.0  | 9041.6  | 9014.8  | 9017.8  | 9028.2  | 9093.7  | 9166.6  | 9248.5  | 9220.2  |
| 50°   | 9912.2  | 9900.3  | 9903.2  | 9852.6  | 9870.5  | 9882.4  | 9877.9  | 9916.6  | 9974.7  | 10014.8 | 9962.8  |
| 52.5° | 10674.1 | 10665.1 | 10754.4 | 10772.3 | 10866.0 | 10901.7 | 10858.6 | 10827.3 | 10816.9 | 10751.4 | 10677.0 |
| 55°   | 11482.1 | 11479.1 | 11666.6 | 11808.0 | 12053.5 | 12136.8 | 12029.7 | 11845.2 | 11699.4 | 11538.6 | 11464.2 |
| 57.5° | 12403.2 | 12421.1 | 12659.2 | 12982.1 | 13492.5 | 13742.5 | 13441.9 | 12994.0 | 12681.5 | 12427.0 | 12349.6 |
| 60°   | 13395.8 | 13394.3 | 13751.4 | 14272.3 | 15142.8 | 15629.4 | 15028.2 | 14227.6 | 13726.1 | 13369.0 | 13263.3 |
| 62.5° | 14339.2 | 14343.7 | 14776.7 | 15547.5 | 16848.1 | 17587.7 | 16571.4 | 15363.0 | 14706.8 | 14266.3 | 14175.5 |
| 65°   | 15555.0 | 15550.5 | 15937.4 | 16770.8 | 18376.4 | 19324.3 | 18008.8 | 16552.0 | 15758.9 | 15279.7 | 15160.6 |
| 67.5° | 17178.5 | 17130.9 | 17489.5 | 18242.5 | 19641.3 | 20522.2 | 19264.8 | 17745.5 | 16888.3 | 16437.4 | 16348.1 |
| 70°   | 18456.8 | 18477.6 | 18953.8 | 19712.7 | 20723.1 | 21368.9 | 20127.9 | 18715.7 | 17819.9 | 17294.6 | 17197.8 |
| 72.5° | 18614.5 | 18607.1 | 19174.0 | 20196.3 | 21363.0 | 21965.7 | 20401.7 | 18531.2 | 17330.3 | 16748.4 | 16677.0 |
| 74°   | 18047.5 | 18040.1 | 18632.4 | 19764.8 | 21263.3 | 22099.6 | 19964.2 | 17650.2 | 16443.4 | 15959.7 | 15904.7 |
| 75°   | 17385.3 | 17238.0 | 17946.3 | 19177.0 | 20889.8 | 21913.6 | 19309.4 | 16906.2 | 15822.8 | 15343.7 | 15281.2 |
| 77.5° | 12889.8 | 12639.8 | 13928.5 | 16239.5 | 18647.2 | 19592.2 | 17020.8 | 14337.7 | 12869.0 | 11944.9 | 11812.4 |
| 80°   | 6389.9  | 6196.4  | 7532.7  | 10494.0 | 13766.3 | 15758.9 | 13223.2 | 9523.8  | 7497.0  | 6260.4  | 6102.7  |
| 82.5° | 1544.6  | 1568.4  | 2363.1  | 4309.5  | 7494.0  | 10474.7 | 7760.4  | 4128.0  | 2732.1  | 1956.8  | 1772.3  |
| 85°   | 375.0   | 379.5   | 689.0   | 1061.0  | 2470.2  | 3940.5  | 2535.7  | 1209.8  | 962.8   | 724.7   | 706.8   |
| 87.5° | 107.1   | 114.6   | 230.7   | 278.3   | 430.1   | 581.8   | 565.5   | 549.1   | 561.0   | 403.3   | 337.8   |
| 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)