

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: P639428

Luminaire Tested: **USSL-M-PA6D-750-U-5WQ**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639428  
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-PA6D-750-U-5WQ  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K LIGHT ENGINES AND TYPE V WIDE OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70079 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

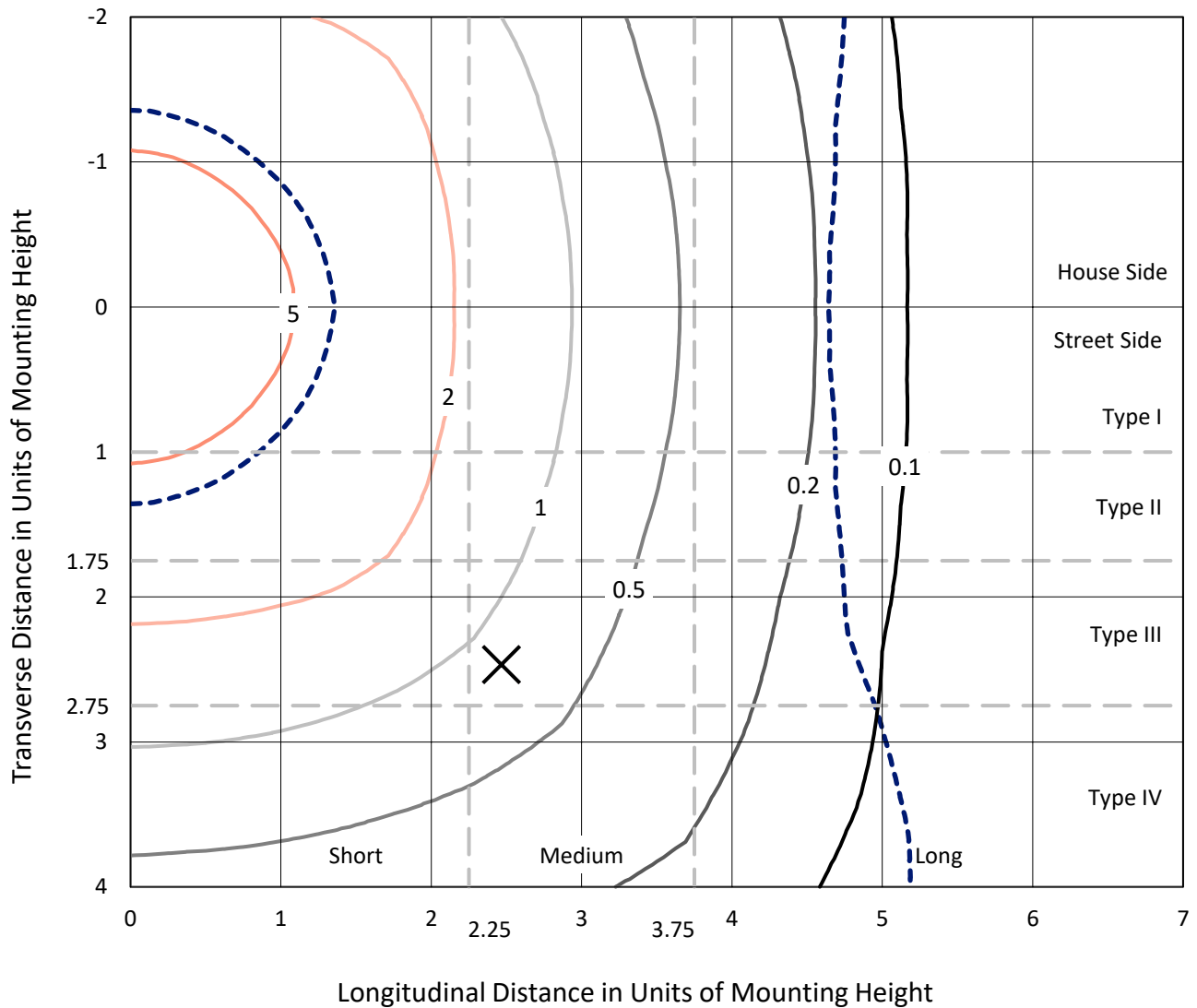
Input Watts (W): 544  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

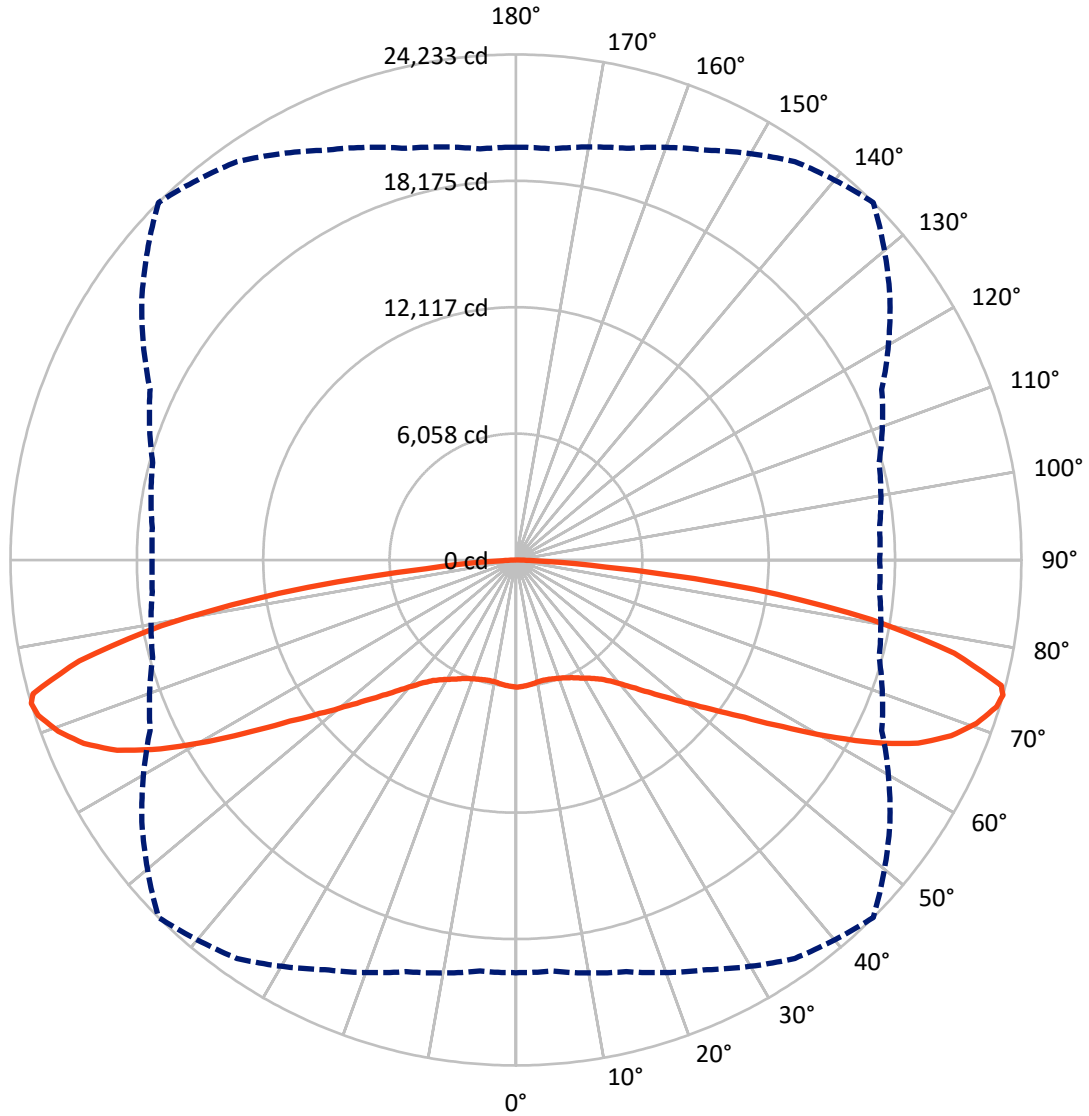
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type V - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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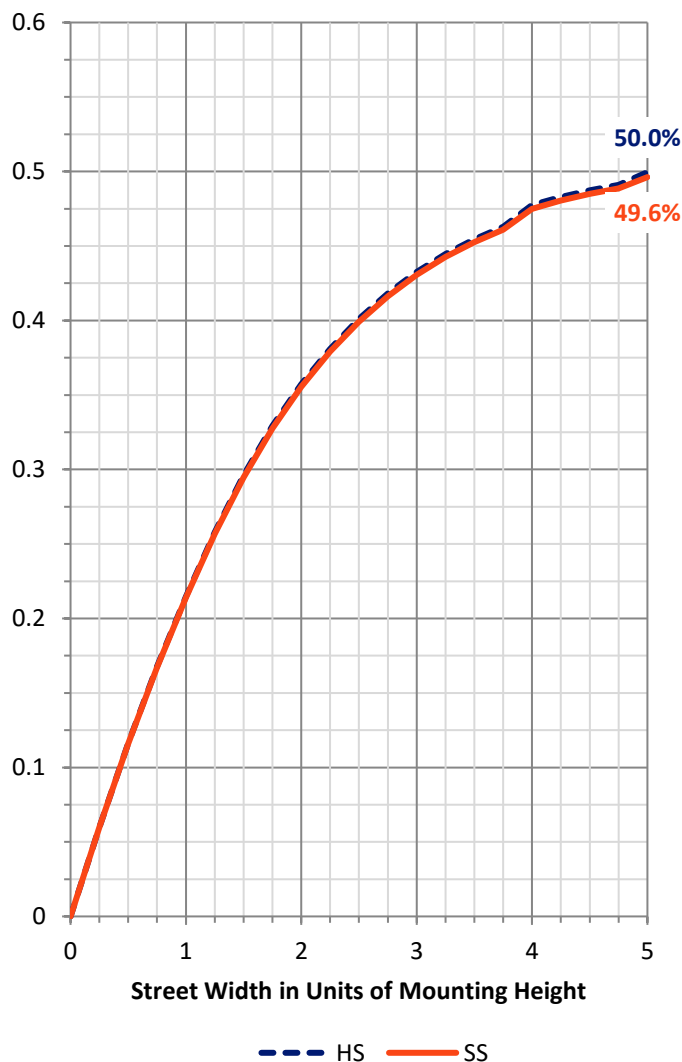
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 35039.5  | 0.0    | 35039.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 35039.5  | 0.0    | 35039.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 70079.0  | 0.0    | 70079.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 573.6   | 0.8       |
| 10°-20°   | 1701.1  | 2.4       |
| 20°-30°   | 2922.1  | 4.2       |
| 30°-40°   | 4496.0  | 6.4       |
| 40°-50°   | 7206.7  | 10.3      |
| 50°-60°   | 11767.1 | 16.8      |
| 60°-70°   | 18348.4 | 26.2      |
| 70°-80°   | 19571.4 | 27.9      |
| 80°-90°   | 3492.6  | 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°    | 70079.0 | 100.0     |
| 0°-180°   | 70079.0 | 100.0     |

**Coefficient of Utilization**



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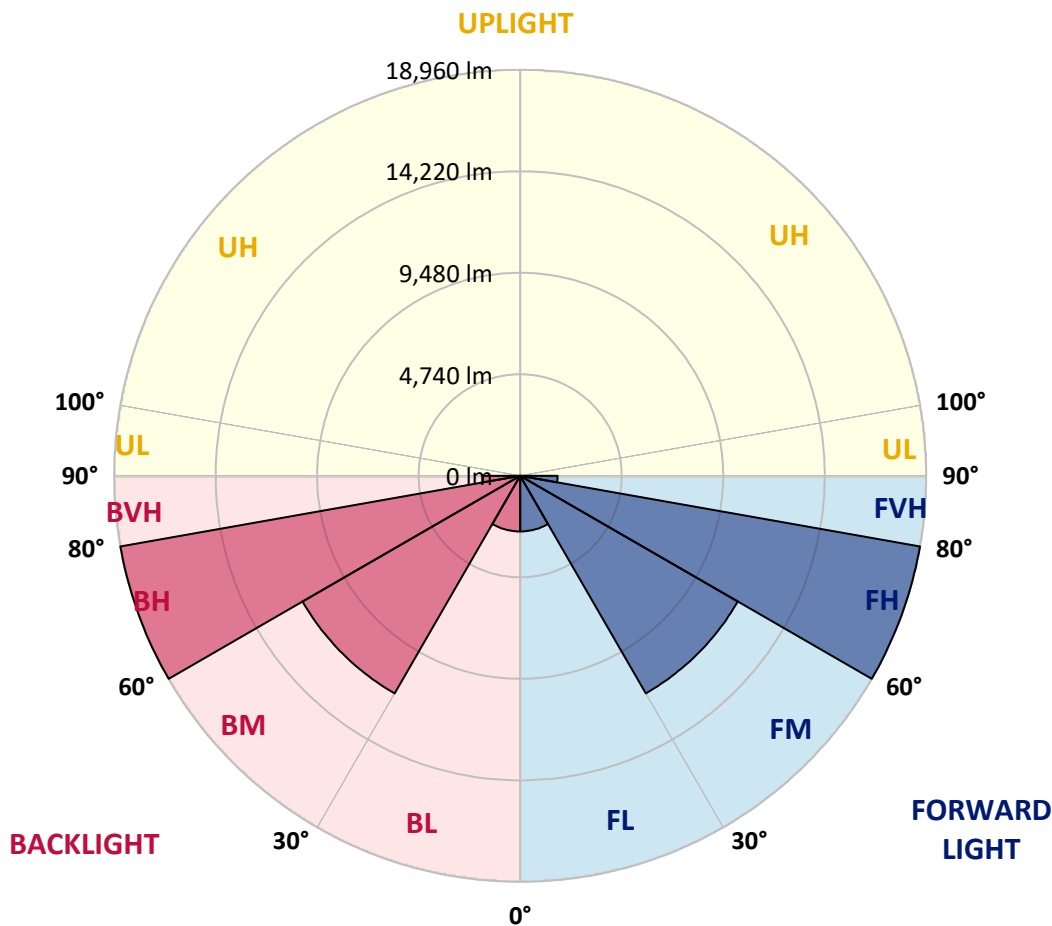
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |    |
|----------------|---------|-----------|-------------------------|------|----|
|                |         |           | B                       | U    | G  |
| FL (0°-30°)    | 2598.4  | 3.7       |                         |      |    |
| FM (30°-60°)   | 11734.9 | 16.7      |                         |      |    |
| FH (60°-80°)   | 18959.9 | 27.1      |                         |      | G5 |
| FVH (80°-90°)  | 1746.3  | 2.5       |                         |      | G5 |
| BL (0°-30°)    | 2598.4  | 3.7       | B4/5000                 |      |    |
| BM (30°-60°)   | 11734.9 | 16.7      | B5                      |      |    |
| BH (60°-80°)   | 18959.9 | 27.1      | B5                      |      | G5 |
| BVH (80°-90°)  | 1746.3  | 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°    | 6097.9  | 6097.9  | 6097.9  | 6097.9  | 6097.9  | 6097.9  | 6097.9  | 6097.9  | 6097.9  | 6097.9  | 6097.9  |
| 2.5°  | 6091.3  | 6101.1  | 6093.0  | 6078.3  | 6071.8  | 6066.9  | 6070.1  | 6079.9  | 6091.3  | 6096.2  | 6091.3  |
| 5°    | 6029.3  | 6037.5  | 6034.2  | 6026.1  | 6029.3  | 6031.0  | 6037.5  | 6050.5  | 6060.3  | 6063.6  | 6063.6  |
| 7.5°  | 5957.5  | 5965.7  | 5967.3  | 5964.1  | 5977.1  | 5982.0  | 5991.8  | 6004.9  | 6016.3  | 6024.4  | 6026.1  |
| 10°   | 5941.2  | 5941.2  | 5936.3  | 5926.5  | 5929.8  | 5933.1  | 5946.1  | 5969.0  | 5991.8  | 6003.2  | 6009.7  |
| 12.5° | 5969.0  | 5969.0  | 5952.6  | 5928.2  | 5915.1  | 5913.5  | 5926.5  | 5959.2  | 5998.3  | 6022.8  | 6022.8  |
| 15°   | 6017.9  | 6013.0  | 5990.2  | 5959.2  | 5941.2  | 5933.1  | 5942.8  | 5975.5  | 6024.4  | 6057.1  | 6060.3  |
| 17.5° | 6060.3  | 6060.3  | 6037.5  | 6004.9  | 5985.3  | 5982.0  | 5983.6  | 6009.7  | 6060.3  | 6099.5  | 6107.7  |
| 20°   | 6107.7  | 6109.3  | 6088.1  | 6058.7  | 6045.6  | 6044.0  | 6048.9  | 6063.6  | 6109.3  | 6151.7  | 6159.9  |
| 22.5° | 6189.2  | 6187.6  | 6163.1  | 6132.1  | 6127.2  | 6130.5  | 6133.8  | 6145.2  | 6190.9  | 6236.6  | 6233.3  |
| 25°   | 6301.8  | 6308.4  | 6277.4  | 6248.0  | 6246.4  | 6249.6  | 6252.9  | 6267.6  | 6313.3  | 6358.9  | 6355.7  |
| 27.5° | 6438.9  | 6447.1  | 6412.8  | 6389.9  | 6396.5  | 6407.9  | 6403.0  | 6409.5  | 6442.2  | 6489.5  | 6479.7  |
| 30°   | 6598.8  | 6589.0  | 6569.4  | 6562.9  | 6574.3  | 6574.3  | 6567.8  | 6566.2  | 6587.4  | 6631.4  | 6620.0  |
| 32.5° | 6799.5  | 6794.6  | 6770.1  | 6765.3  | 6773.4  | 6765.3  | 6762.0  | 6770.1  | 6796.3  | 6840.3  | 6833.8  |
| 35°   | 7099.8  | 7088.3  | 7057.3  | 7034.5  | 7032.9  | 7013.3  | 7021.4  | 7052.4  | 7101.4  | 7138.9  | 7138.9  |
| 37.5° | 7453.9  | 7475.1  | 7442.4  | 7400.0  | 7372.3  | 7360.8  | 7373.9  | 7426.1  | 7504.4  | 7542.0  | 7542.0  |
| 40°   | 7971.1  | 7977.6  | 7932.0  | 7881.4  | 7850.4  | 7830.8  | 7845.5  | 7905.8  | 8008.6  | 8057.6  | 8034.8  |
| 42.5° | 8568.3  | 8568.3  | 8525.9  | 8460.6  | 8411.7  | 8406.8  | 8419.8  | 8490.0  | 8601.0  | 8651.6  | 8620.6  |
| 45°   | 9305.9  | 9255.3  | 9216.1  | 9142.7  | 9092.1  | 9093.8  | 9108.4  | 9177.0  | 9274.9  | 9346.7  | 9312.4  |
| 47.5° | 10069.6 | 10030.4 | 9996.1  | 9914.5  | 9885.2  | 9888.4  | 9899.8  | 9971.6  | 10051.6 | 10141.3 | 10110.3 |
| 50°   | 10869.1 | 10856.1 | 10859.3 | 10803.8 | 10823.4 | 10836.5 | 10831.6 | 10874.0 | 10937.6 | 10981.7 | 10924.6 |
| 52.5° | 11704.6 | 11694.8 | 11792.7 | 11812.3 | 11915.1 | 11954.2 | 11906.9 | 11872.6 | 11861.2 | 11789.4 | 11707.8 |
| 55°   | 12590.6 | 12587.3 | 12792.9 | 12948.0 | 13217.2 | 13308.6 | 13191.1 | 12988.8 | 12828.8 | 12652.6 | 12571.0 |
| 57.5° | 13600.7 | 13620.2 | 13881.3 | 14235.4 | 14795.1 | 15069.2 | 14739.6 | 14248.5 | 13905.8 | 13626.8 | 13541.9 |
| 60°   | 14689.0 | 14687.4 | 15079.0 | 15650.1 | 16604.7 | 17138.3 | 16479.1 | 15601.2 | 15051.3 | 14659.7 | 14543.8 |
| 62.5° | 15723.6 | 15728.5 | 16203.3 | 17048.6 | 18474.7 | 19285.7 | 18171.2 | 16846.2 | 16126.6 | 15643.6 | 15544.1 |
| 65°   | 17056.7 | 17051.8 | 17476.1 | 18389.9 | 20150.5 | 21190.0 | 19747.5 | 18150.0 | 17280.3 | 16754.8 | 16624.3 |
| 67.5° | 18837.0 | 18784.7 | 19178.0 | 20003.7 | 21537.5 | 22503.5 | 21124.7 | 19458.7 | 18518.8 | 18024.3 | 17926.4 |
| 70°   | 20238.6 | 20261.5 | 20783.6 | 21615.8 | 22723.8 | 23432.0 | 22071.1 | 20522.6 | 19540.2 | 18964.2 | 18858.2 |
| 72.5° | 20411.6 | 20403.4 | 21025.1 | 22146.2 | 23425.5 | 24086.3 | 22371.3 | 20320.2 | 19003.4 | 18365.4 | 18287.1 |
| 74°   | 19789.9 | 19781.7 | 20431.2 | 21673.0 | 23316.1 | 24233.2 | 21891.6 | 19354.2 | 18030.9 | 17500.6 | 17440.2 |
| 75°   | 19063.8 | 18902.2 | 19678.9 | 21028.4 | 22906.6 | 24029.2 | 21173.6 | 18538.4 | 17350.4 | 16825.0 | 16756.5 |
| 77.5° | 14134.2 | 13860.1 | 15273.2 | 17807.3 | 20447.5 | 21483.7 | 18664.0 | 15721.9 | 14111.4 | 13098.1 | 12952.9 |
| 80°   | 7006.7  | 6794.6  | 8259.9  | 11507.1 | 15095.4 | 17280.3 | 14499.8 | 10443.2 | 8220.8  | 6864.8  | 6691.8  |
| 82.5° | 1693.8  | 1719.9  | 2591.2  | 4725.6  | 8217.5  | 11485.9 | 8509.6  | 4526.5  | 2995.9  | 2145.8  | 1943.4  |
| 85°   | 411.2   | 416.1   | 755.5   | 1163.4  | 2708.7  | 4320.9  | 2780.5  | 1326.6  | 1055.7  | 794.7   | 775.1   |
| 87.5° | 117.5   | 125.6   | 252.9   | 305.1   | 471.6   | 638.0   | 620.1   | 602.1   | 615.2   | 442.2   | 370.4   |
| 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)