

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: P368141

Luminaire Tested: **PMM-SA3D-760-U-5WQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-760-U-5WQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21352 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 192  
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: 28.75 FT

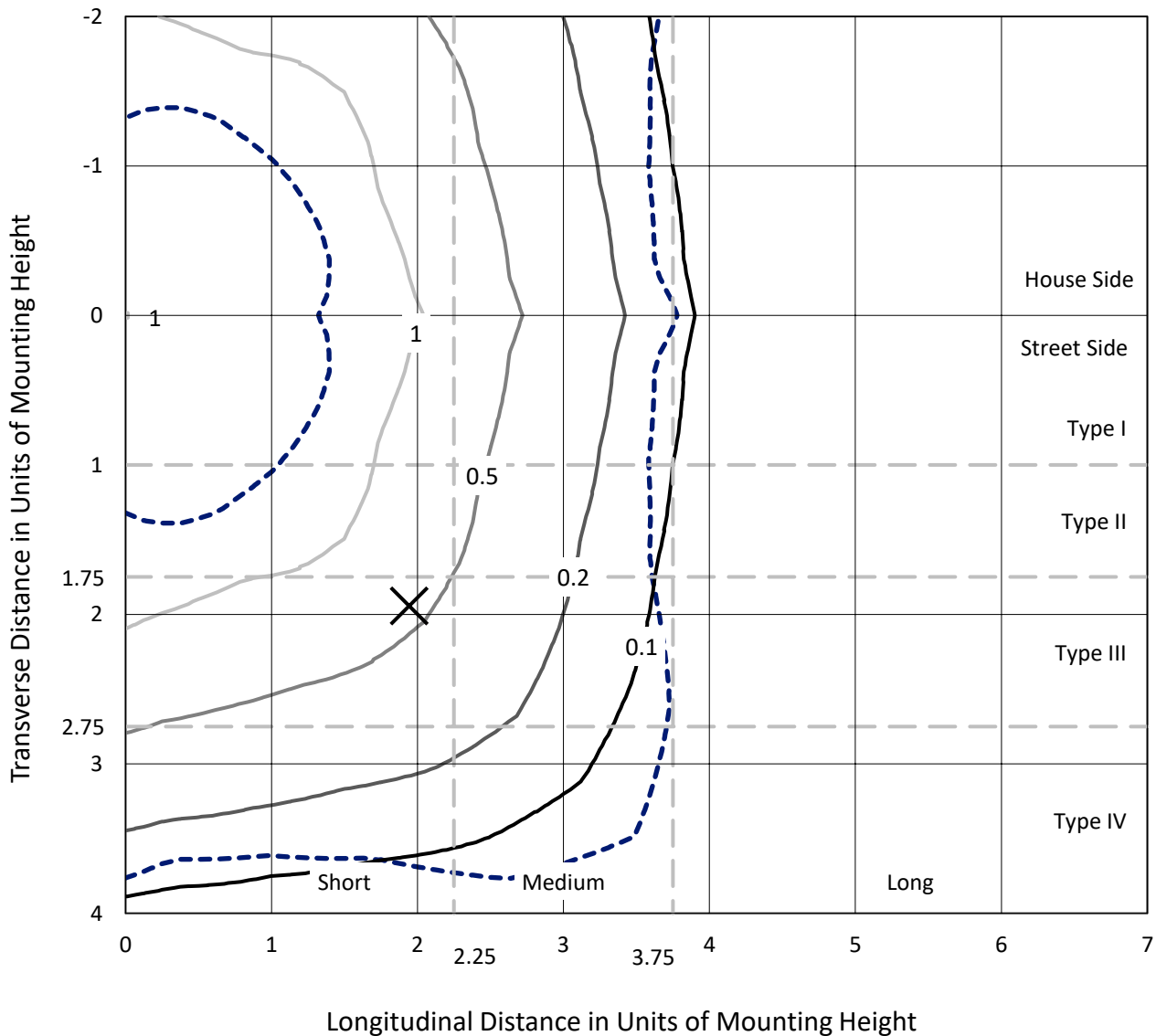


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### Iso-Footcandle Lines of Horizontal Illumination

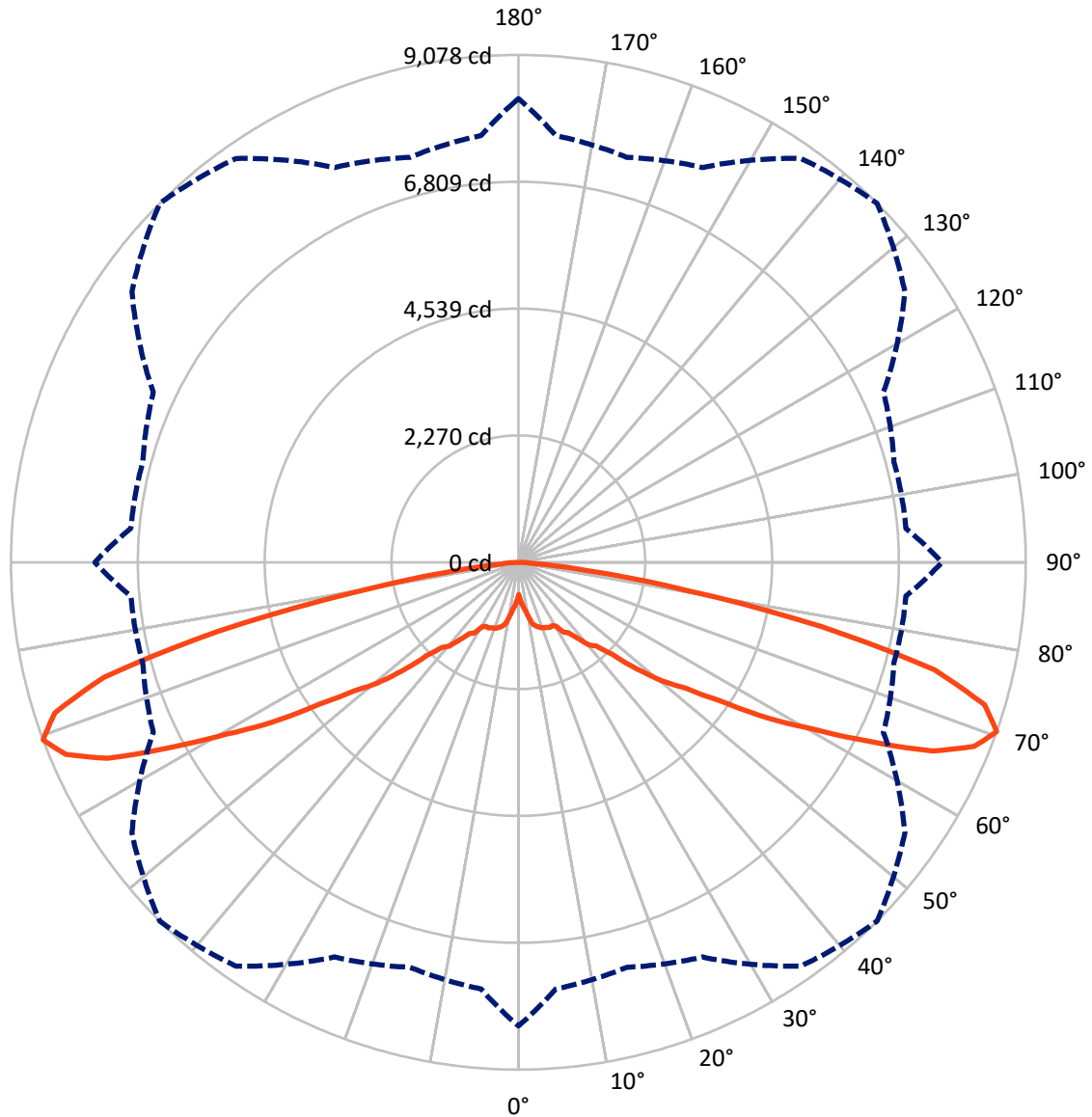
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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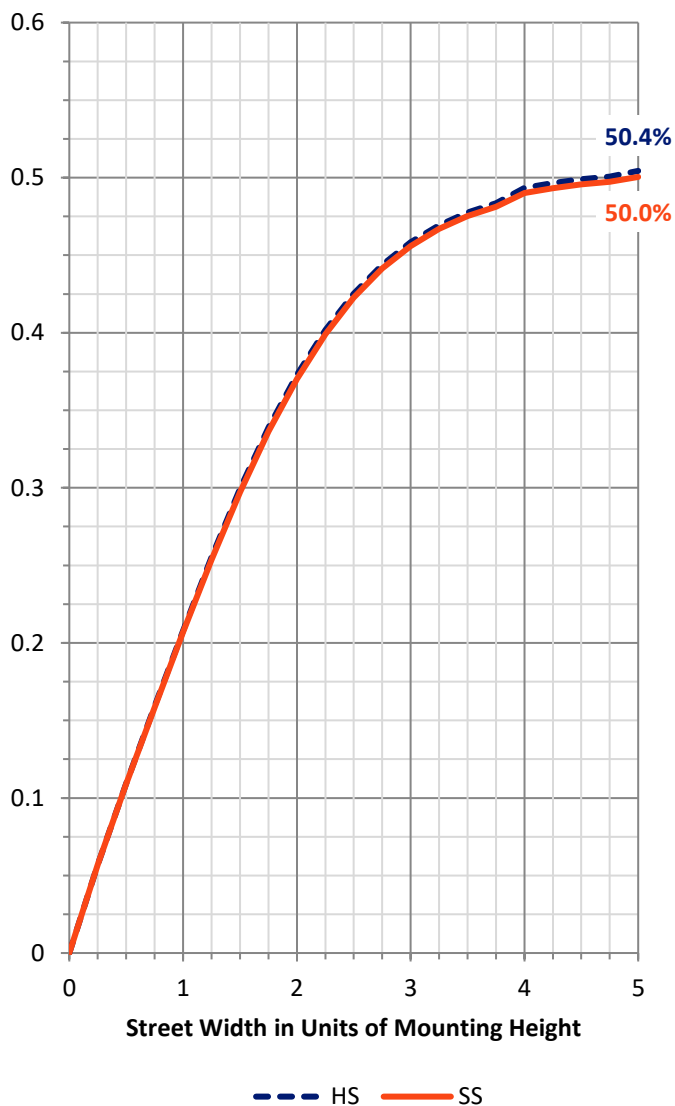
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10676.0  | 0.0    | 10676.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10676.0  | 0.0    | 10676.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21352.0  | 0.0    | 21352.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 84.0    | 0.4       |
| 10°-20°   | 336.1   | 1.6       |
| 20°-30°   | 635.5   | 3.0       |
| 30°-40°   | 1106.9  | 5.2       |
| 40°-50°   | 2116.0  | 9.9       |
| 50°-60°   | 4103.0  | 19.2      |
| 60°-70°   | 7184.6  | 33.6      |
| 70°-80°   | 5399.6  | 25.3      |
| 80°-90°   | 386.4   | 1.8       |
| 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°    | 21352.0 | 100.0     |
| 0°-180°   | 21352.0 | 100.0     |

**Coefficient of Utilization**



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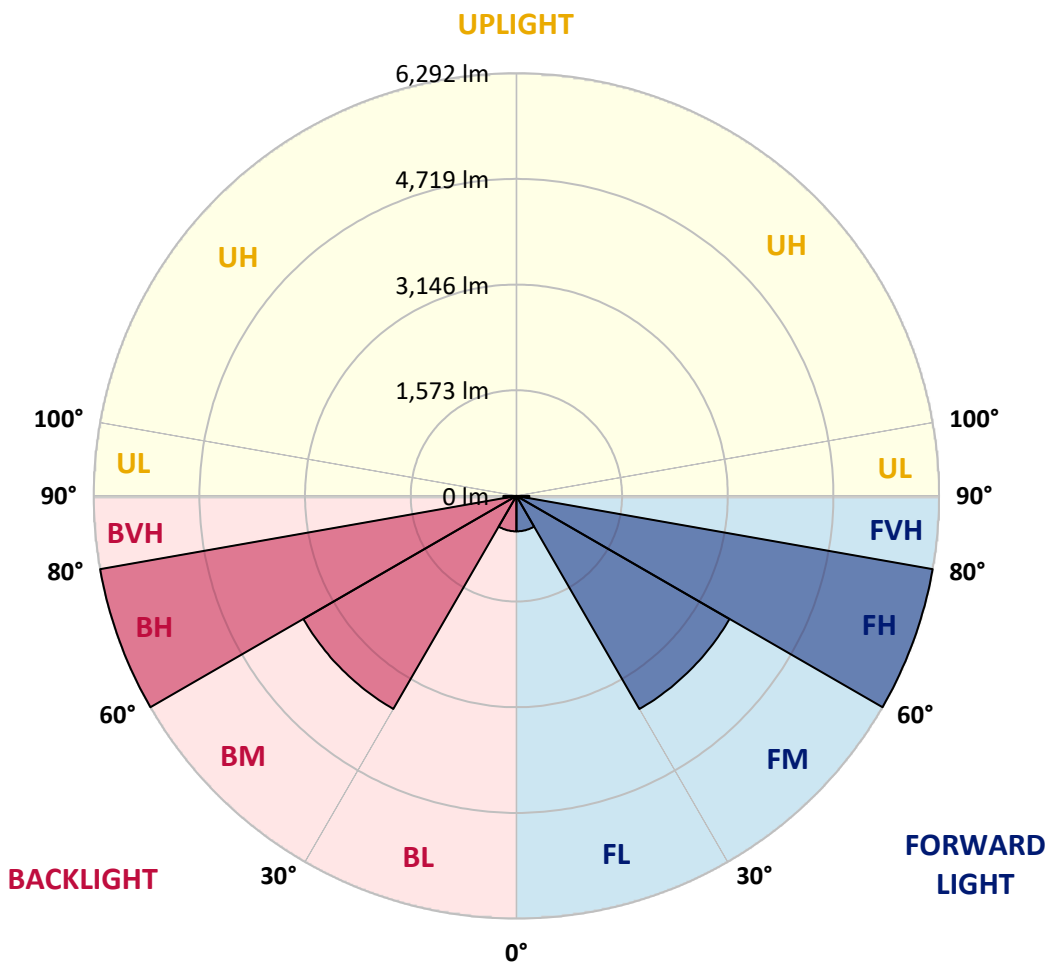
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 527.8  | 2.5       |                         |      |         |
| FM (30°-60°)   | 3663.0 | 17.2      |                         |      |         |
| FH (60°-80°)   | 6292.1 | 29.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 193.2  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 527.8  | 2.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 3663.0 | 17.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 6292.1 | 29.5      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 193.2  | 0.9       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 577.3  | 577.3  | 577.3  | 577.3  | 577.3  | 577.3  | 577.3  | 577.3  | 577.3  | 577.3  | 577.3  |
| 2.5°  | 702.4  | 691.7  | 657.7  | 659.3  | 675.1  | 676.7  | 678.4  | 657.7  | 652.7  | 695.0  | 697.4  |
| 5°    | 892.1  | 867.3  | 842.4  | 832.5  | 817.6  | 776.1  | 821.7  | 826.7  | 836.6  | 868.9  | 883.8  |
| 7.5°  | 1018.8 | 988.2  | 954.2  | 933.5  | 892.9  | 859.0  | 896.2  | 926.9  | 946.8  | 983.2  | 1003.9 |
| 10°   | 1042.9 | 1024.6 | 1023.0 | 986.5  | 979.1  | 991.5  | 989.0  | 989.8  | 1019.7 | 1020.5 | 1032.9 |
| 12.5° | 1118.2 | 1131.5 | 1105.8 | 1093.4 | 1100.8 | 1131.5 | 1106.6 | 1095.9 | 1103.3 | 1137.3 | 1123.2 |
| 15°   | 1216.8 | 1232.5 | 1193.6 | 1173.7 | 1153.9 | 1182.8 | 1157.2 | 1176.2 | 1200.2 | 1225.1 | 1212.7 |
| 17.5° | 1326.1 | 1327.0 | 1274.0 | 1200.2 | 1217.6 | 1221.8 | 1212.7 | 1196.9 | 1265.7 | 1325.3 | 1319.5 |
| 20°   | 1385.8 | 1385.0 | 1293.8 | 1193.6 | 1245.0 | 1254.1 | 1245.8 | 1192.0 | 1295.5 | 1377.5 | 1375.0 |
| 22.5° | 1447.1 | 1428.9 | 1319.5 | 1238.3 | 1257.4 | 1264.9 | 1245.8 | 1240.8 | 1319.5 | 1433.8 | 1433.0 |
| 25°   | 1480.2 | 1496.0 | 1375.8 | 1325.3 | 1309.6 | 1292.2 | 1308.8 | 1317.0 | 1392.4 | 1504.2 | 1471.9 |
| 27.5° | 1583.8 | 1558.1 | 1392.4 | 1387.4 | 1354.3 | 1285.6 | 1342.7 | 1383.3 | 1387.4 | 1568.0 | 1601.2 |
| 30°   | 1677.4 | 1687.3 | 1467.0 | 1474.4 | 1414.0 | 1327.0 | 1415.6 | 1480.2 | 1492.6 | 1689.0 | 1685.6 |
| 32.5° | 1776.8 | 1780.9 | 1599.5 | 1522.5 | 1496.8 | 1493.5 | 1459.5 | 1515.8 | 1613.6 | 1771.0 | 1777.6 |
| 35°   | 1927.5 | 1961.5 | 1717.9 | 1614.4 | 1582.1 | 1549.0 | 1578.8 | 1629.3 | 1720.4 | 1956.5 | 1939.9 |
| 37.5° | 2272.9 | 2219.1 | 1975.6 | 1761.0 | 1739.5 | 1726.2 | 1750.3 | 1786.7 | 1973.1 | 2224.9 | 2301.9 |
| 40°   | 2514.0 | 2488.3 | 2157.0 | 2003.7 | 1867.9 | 1939.1 | 1882.8 | 2023.6 | 2177.7 | 2489.9 | 2539.6 |
| 42.5° | 2887.5 | 2773.2 | 2432.8 | 2243.1 | 2102.3 | 2051.8 | 2083.2 | 2267.1 | 2463.4 | 2811.3 | 2909.1 |
| 45°   | 3246.2 | 3069.8 | 2778.2 | 2610.9 | 2397.2 | 2344.2 | 2386.4 | 2602.6 | 2829.6 | 3104.6 | 3276.9 |
| 47.5° | 3612.3 | 3430.1 | 3109.5 | 2867.7 | 2692.9 | 2851.1 | 2712.8 | 2918.2 | 3144.3 | 3464.1 | 3617.3 |
| 50°   | 3992.5 | 3790.4 | 3474.0 | 3210.6 | 3195.7 | 3335.7 | 3170.0 | 3275.2 | 3484.8 | 3816.1 | 3996.7 |
| 52.5° | 4429.1 | 4211.2 | 3894.8 | 3716.7 | 3751.5 | 3742.4 | 3709.2 | 3690.2 | 3896.4 | 4222.0 | 4436.5 |
| 55°   | 4948.4 | 4713.2 | 4460.5 | 4378.5 | 4474.6 | 4371.1 | 4419.9 | 4413.3 | 4443.1 | 4675.9 | 4926.9 |
| 57.5° | 5576.3 | 5310.4 | 5056.9 | 5038.7 | 5162.1 | 5259.9 | 5172.9 | 5047.8 | 4995.6 | 5221.8 | 5509.2 |
| 60°   | 6367.3 | 6041.0 | 5762.7 | 5705.5 | 6057.5 | 6056.7 | 5978.0 | 5698.0 | 5678.2 | 5934.1 | 6280.4 |
| 62.5° | 7241.2 | 6843.6 | 6539.6 | 6448.5 | 7000.2 | 7062.3 | 6817.1 | 6315.2 | 6417.9 | 6624.1 | 7035.0 |
| 65°   | 7983.4 | 7505.5 | 7222.2 | 7197.3 | 7871.6 | 8145.7 | 7604.0 | 6917.3 | 6950.5 | 7121.9 | 7566.7 |
| 67.5° | 8467.1 | 7891.5 | 7666.1 | 7786.3 | 8624.5 | 8796.0 | 8292.4 | 7319.9 | 7202.3 | 7273.5 | 7805.3 |
| 70°   | 8297.3 | 7664.5 | 7502.1 | 7793.7 | 8819.2 | 9078.4 | 8440.6 | 7207.3 | 6957.1 | 6960.4 | 7578.3 |
| 72.5° | 7010.9 | 6408.8 | 6485.8 | 7020.9 | 8358.6 | 8722.3 | 7754.8 | 6509.8 | 5997.9 | 5985.5 | 6546.3 |
| 75°   | 4636.1 | 4233.6 | 4537.6 | 5371.7 | 6948.8 | 7692.7 | 6425.3 | 5102.5 | 4460.5 | 4251.8 | 4685.0 |
| 77.5° | 2027.7 | 1976.4 | 2232.3 | 3175.0 | 4737.2 | 5544.0 | 4603.0 | 3333.2 | 2426.2 | 2017.8 | 2204.2 |
| 80°   | 543.4  | 531.8  | 667.6  | 1204.4 | 2306.1 | 3053.2 | 2490.8 | 1329.5 | 694.1  | 505.3  | 535.9  |
| 82.5° | 198.0  | 202.9  | 247.7  | 337.1  | 759.6  | 1285.6 | 827.5  | 388.5  | 262.6  | 215.4  | 215.4  |
| 85°   | 86.1   | 83.7   | 120.1  | 135.0  | 207.1  | 290.7  | 237.7  | 164.8  | 132.5  | 99.4   | 95.3   |
| 87.5° | 23.2   | 29.0   | 40.6   | 42.2   | 53.8   | 43.9   | 63.0   | 58.0   | 49.7   | 34.8   | 28.2   |
| 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)