

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: P366688

Luminaire Tested: **PMM-SA1A-760-U-5NQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1A-760-U-5NQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4135 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 34  
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

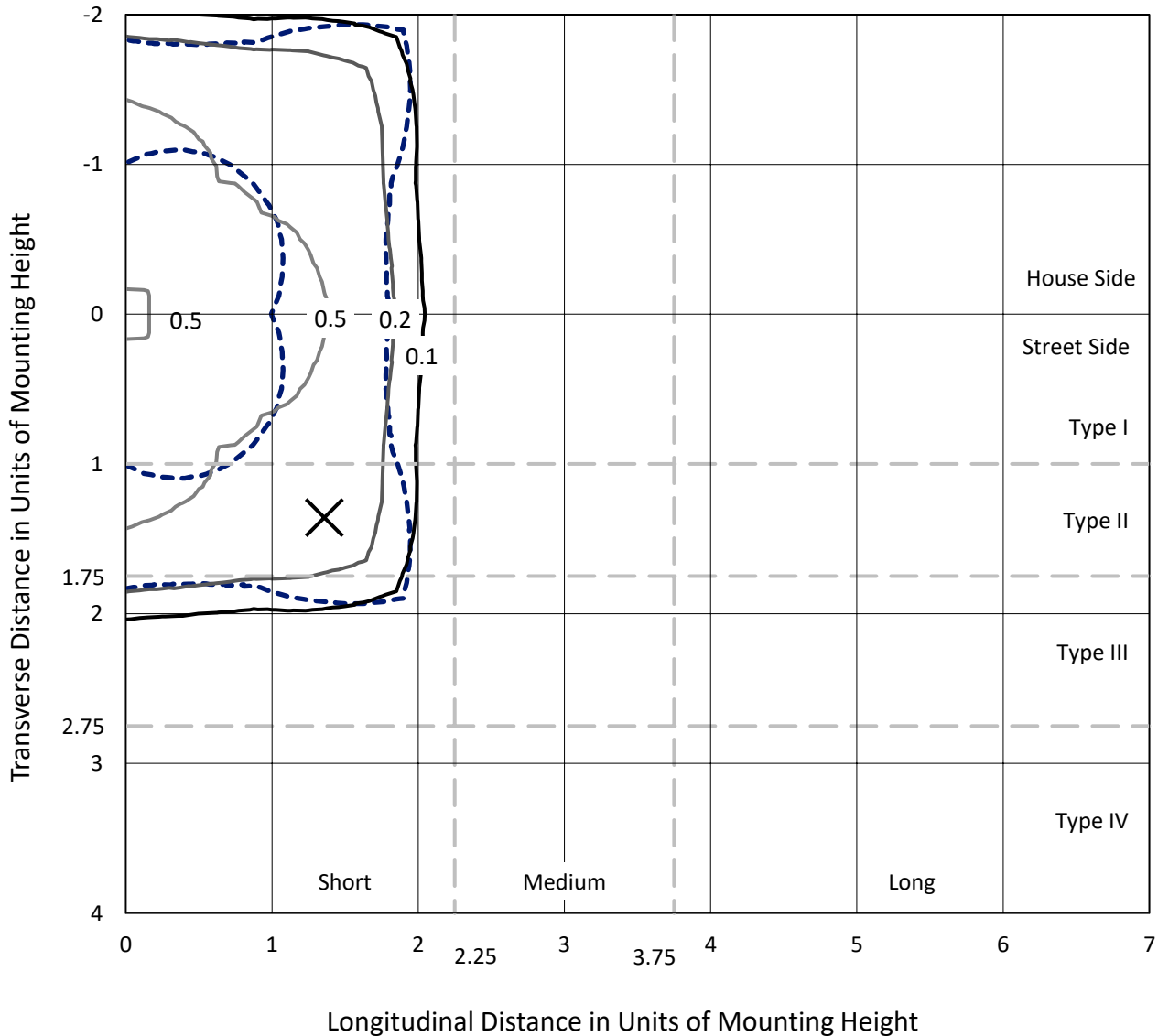


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### Iso-Footcandle Lines of Horizontal Illumination

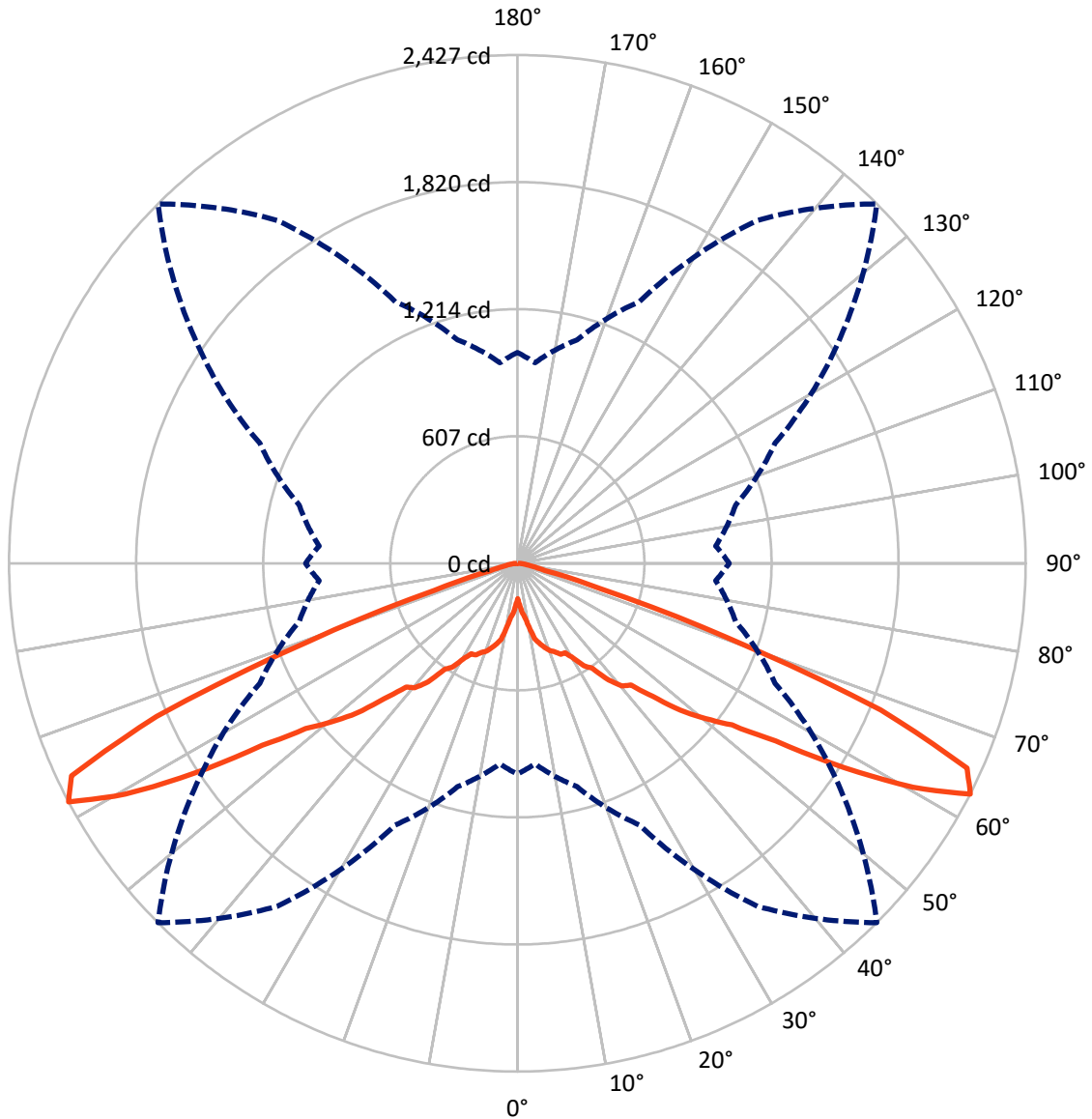
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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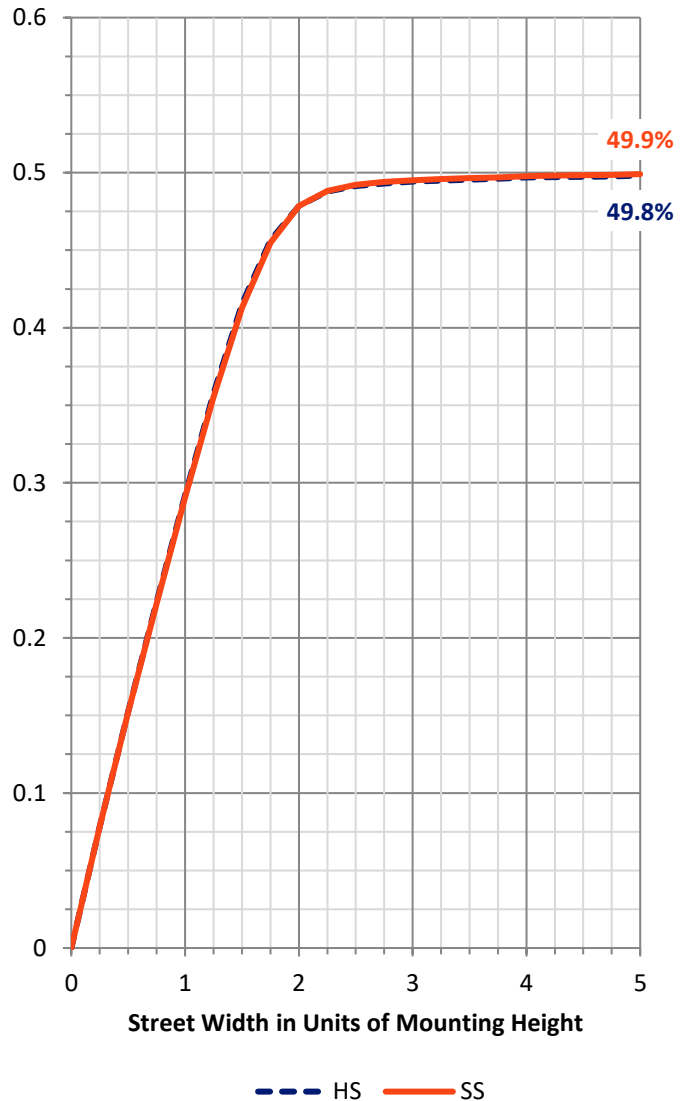
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2067.5   | 0.0    | 2067.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2067.5   | 0.0    | 2067.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4135.0   | 0.0    | 4135.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.5   | 0.6       |
| 10°-20°   | 112.4  | 2.7       |
| 20°-30°   | 235.5  | 5.7       |
| 30°-40°   | 443.7  | 10.7      |
| 40°-50°   | 805.3  | 19.5      |
| 50°-60°   | 1360.6 | 32.9      |
| 60°-70°   | 1017.1 | 24.6      |
| 70°-80°   | 113.8  | 2.8       |
| 80°-90°   | 21.2   | 0.5       |
| 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°    | 4135.0 | 100.0     |
| 0°-180°   | 4135.0 | 100.0     |

**Coefficient of Utilization**



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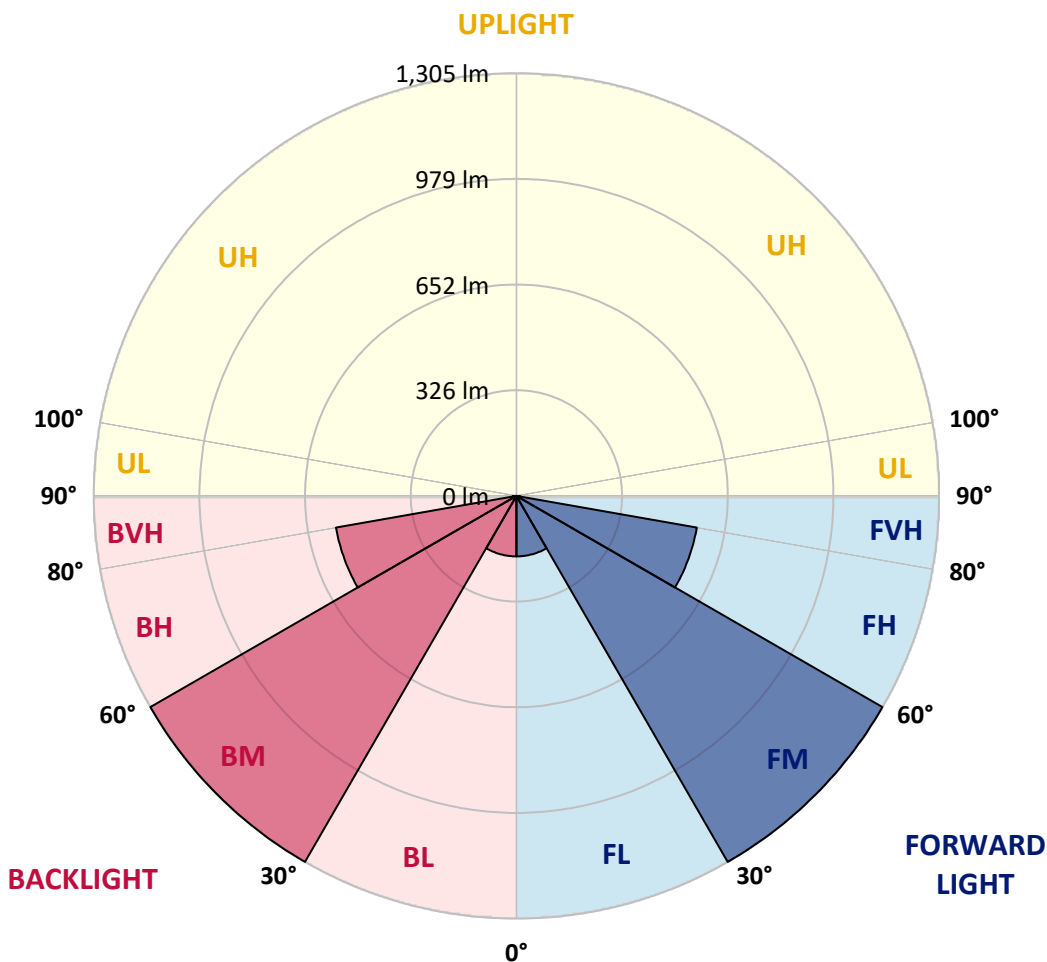
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 186.7  | 4.5       |                         |      |        |
| FM (30°-60°)   | 1304.8 | 31.6      |                         |      |        |
| FH (60°-80°)   | 565.5  | 13.7      |                         |      | G0/660 |
| FVH (80°-90°)  | 10.6   | 0.3       |                         |      | G1/100 |
| BL (0°-30°)    | 186.7  | 4.5       | B1/500                  |      |        |
| BM (30°-60°)   | 1304.8 | 31.6      | B2/2500                 |      |        |
| BH (60°-80°)   | 565.5  | 13.7      | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 10.6   | 0.3       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 169.1  | 169.1  | 169.1  | 169.1  | 169.1  | 169.1  | 169.1  | 169.1  | 169.1  | 169.1  | 169.1  |
| 2.5°  | 205.6  | 201.9  | 188.9  | 193.5  | 198.2  | 197.5  | 196.3  | 192.8  | 189.6  | 202.9  | 205.6  |
| 5°    | 262.1  | 253.7  | 249.1  | 245.4  | 244.6  | 235.5  | 248.0  | 246.6  | 250.8  | 257.9  | 264.8  |
| 7.5°  | 307.2  | 299.3  | 287.3  | 284.8  | 271.2  | 261.1  | 271.9  | 285.1  | 289.4  | 302.3  | 310.0  |
| 10°   | 323.7  | 316.8  | 319.0  | 307.7  | 307.0  | 309.9  | 307.5  | 310.5  | 321.7  | 320.1  | 325.9  |
| 12.5° | 360.7  | 361.9  | 354.8  | 351.9  | 357.7  | 370.1  | 359.5  | 355.8  | 353.1  | 364.6  | 368.1  |
| 15°   | 395.3  | 402.2  | 390.6  | 388.8  | 386.4  | 398.0  | 386.6  | 392.1  | 397.0  | 399.4  | 398.0  |
| 17.5° | 444.5  | 444.8  | 431.8  | 411.1  | 418.9  | 422.6  | 417.5  | 408.0  | 431.0  | 442.6  | 443.3  |
| 20°   | 476.8  | 477.9  | 452.4  | 420.1  | 441.9  | 445.3  | 442.8  | 422.8  | 453.4  | 472.7  | 471.9  |
| 22.5° | 511.6  | 507.5  | 472.9  | 449.3  | 457.1  | 459.1  | 453.7  | 451.2  | 472.7  | 507.9  | 502.7  |
| 25°   | 535.0  | 542.4  | 507.9  | 492.7  | 486.2  | 481.5  | 488.4  | 489.7  | 511.7  | 543.7  | 526.0  |
| 27.5° | 590.8  | 578.0  | 524.0  | 529.7  | 515.8  | 484.0  | 514.3  | 530.9  | 526.2  | 580.7  | 594.0  |
| 30°   | 640.4  | 640.8  | 565.1  | 576.0  | 550.1  | 524.4  | 557.2  | 581.2  | 575.3  | 645.2  | 632.5  |
| 32.5° | 703.9  | 706.2  | 635.9  | 606.6  | 589.1  | 584.3  | 580.2  | 606.8  | 643.5  | 700.0  | 701.2  |
| 35°   | 772.3  | 792.5  | 697.0  | 666.2  | 636.4  | 614.9  | 638.1  | 674.9  | 698.8  | 789.2  | 773.2  |
| 37.5° | 905.7  | 871.8  | 793.5  | 735.7  | 716.7  | 708.1  | 720.4  | 741.7  | 793.4  | 871.3  | 898.7  |
| 40°   | 984.6  | 975.2  | 868.7  | 820.3  | 746.9  | 769.8  | 763.1  | 821.6  | 864.4  | 980.6  | 983.1  |
| 42.5° | 1105.3 | 1057.8 | 962.1  | 900.5  | 834.6  | 794.9  | 836.9  | 915.5  | 967.1  | 1065.4 | 1111.8 |
| 45°   | 1200.6 | 1139.7 | 1065.9 | 1019.1 | 935.9  | 906.4  | 921.6  | 1022.2 | 1086.9 | 1154.4 | 1215.4 |
| 47.5° | 1306.1 | 1240.2 | 1166.3 | 1083.2 | 1002.0 | 1049.9 | 1023.2 | 1111.7 | 1174.9 | 1271.6 | 1328.8 |
| 50°   | 1438.7 | 1365.7 | 1271.1 | 1202.5 | 1148.7 | 1165.5 | 1161.3 | 1224.4 | 1302.4 | 1390.6 | 1455.5 |
| 52.5° | 1584.7 | 1502.1 | 1410.9 | 1347.2 | 1324.5 | 1282.7 | 1337.2 | 1363.2 | 1420.7 | 1501.4 | 1577.6 |
| 55°   | 1686.8 | 1604.2 | 1549.0 | 1569.6 | 1563.5 | 1496.6 | 1544.3 | 1547.0 | 1519.3 | 1548.4 | 1625.1 |
| 57.5° | 1671.0 | 1592.1 | 1584.5 | 1662.1 | 1778.0 | 1842.8 | 1768.9 | 1610.1 | 1506.1 | 1492.5 | 1573.8 |
| 60°   | 1461.1 | 1393.6 | 1462.9 | 1637.9 | 1975.5 | 2172.7 | 1888.4 | 1562.5 | 1391.2 | 1320.4 | 1398.8 |
| 62.5° | 1006.8 | 961.3  | 1104.9 | 1378.5 | 1999.2 | 2427.2 | 1884.0 | 1357.8 | 1079.0 | 950.5  | 1011.4 |
| 65°   | 477.3  | 460.8  | 582.1  | 873.9  | 1665.3 | 2359.2 | 1645.9 | 918.7  | 621.1  | 496.1  | 509.9  |
| 67.5° | 179.5  | 171.3  | 213.6  | 386.1  | 1048.9 | 1871.2 | 1106.4 | 453.2  | 240.2  | 186.7  | 193.1  |
| 70°   | 101.9  | 96.1   | 101.6  | 140.8  | 422.3  | 1059.8 | 477.3  | 155.4  | 102.1  | 93.0   | 99.1   |
| 72.5° | 80.2   | 75.7   | 76.5   | 85.1   | 145.7  | 416.0  | 154.4  | 88.7   | 74.2   | 70.5   | 75.9   |
| 75°   | 66.3   | 62.2   | 62.1   | 66.8   | 85.0   | 135.1  | 87.3   | 67.8   | 60.1   | 57.4   | 61.7   |
| 77.5° | 52.7   | 50.3   | 51.0   | 54.7   | 60.9   | 75.5   | 63.3   | 54.8   | 49.3   | 46.1   | 49.1   |
| 80°   | 38.5   | 38.2   | 40.9   | 44.2   | 45.4   | 50.8   | 47.4   | 44.2   | 39.4   | 34.8   | 36.0   |
| 82.5° | 25.2   | 25.4   | 30.4   | 33.1   | 32.6   | 32.5   | 34.0   | 33.8   | 29.4   | 23.0   | 23.0   |
| 85°   | 14.5   | 14.8   | 18.7   | 20.9   | 20.5   | 16.3   | 21.5   | 21.7   | 18.8   | 14.0   | 13.5   |
| 87.5° | 4.7    | 5.9    | 8.1    | 8.6    | 8.2    | 4.5    | 8.2    | 9.1    | 8.2    | 5.9    | 5.2    |
| 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)