

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: P366865

Luminaire Tested: **PMM-SA1C-727-U-5WQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366865  
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-SA1C-727-U-5WQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5627 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

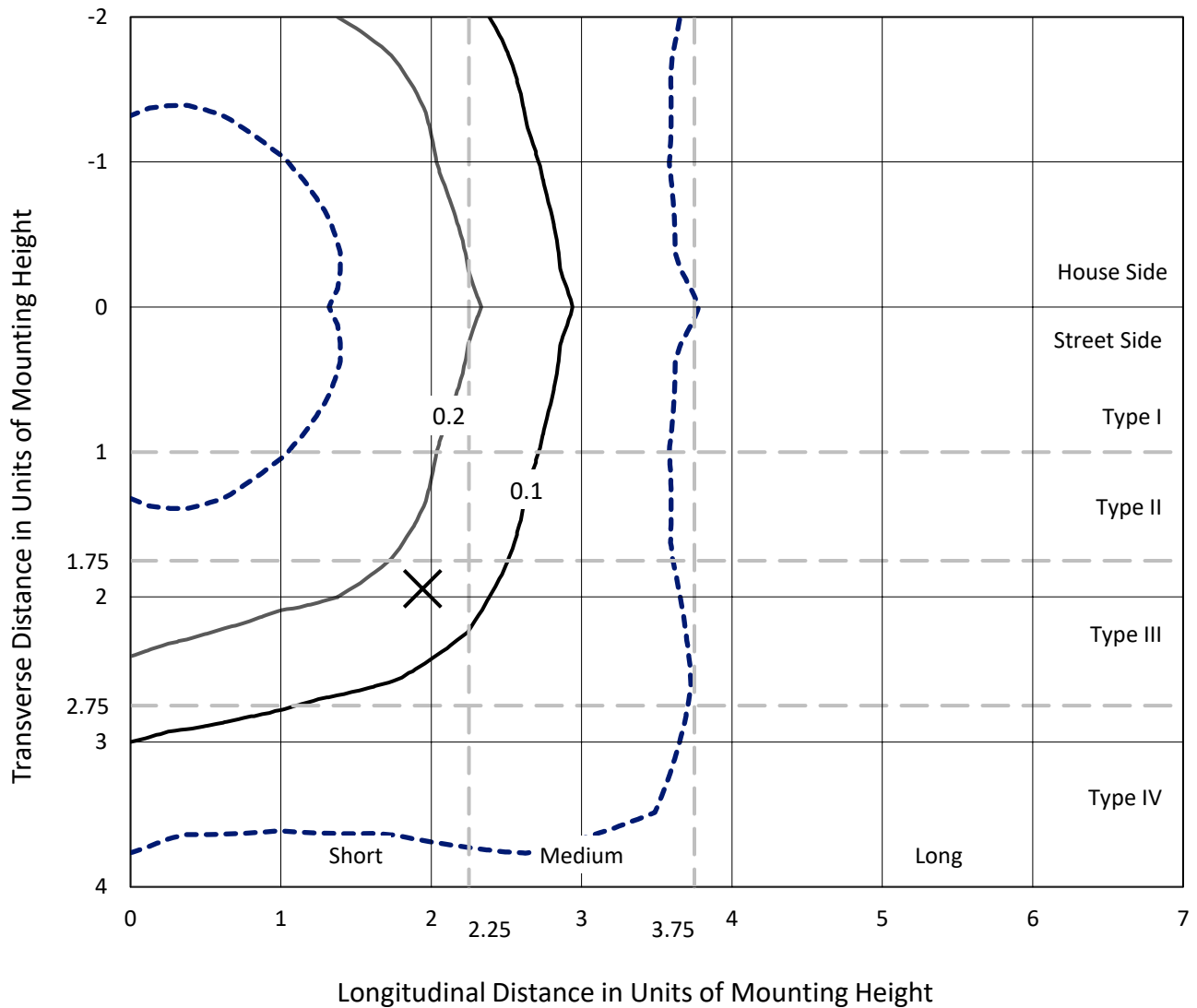
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

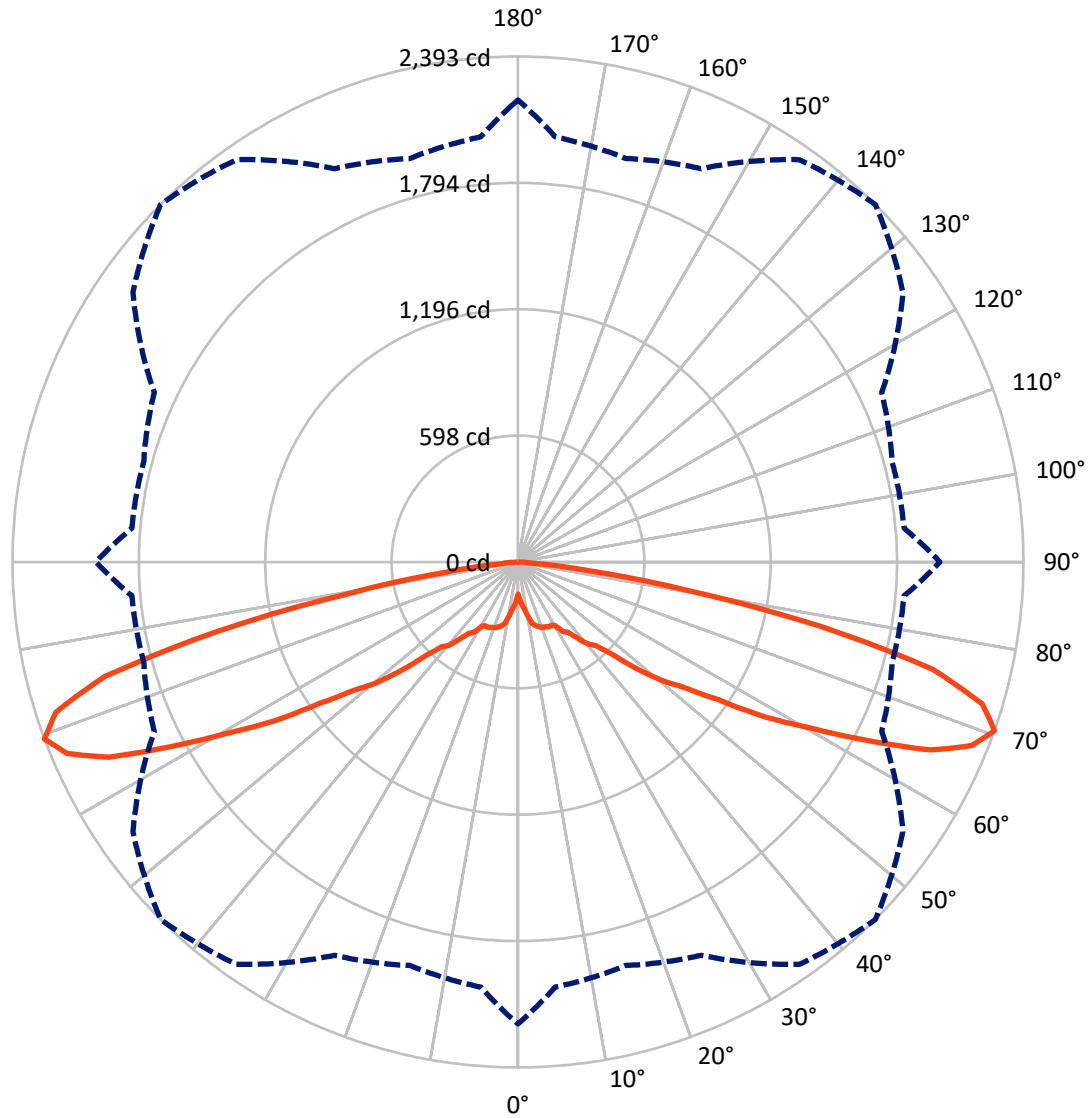
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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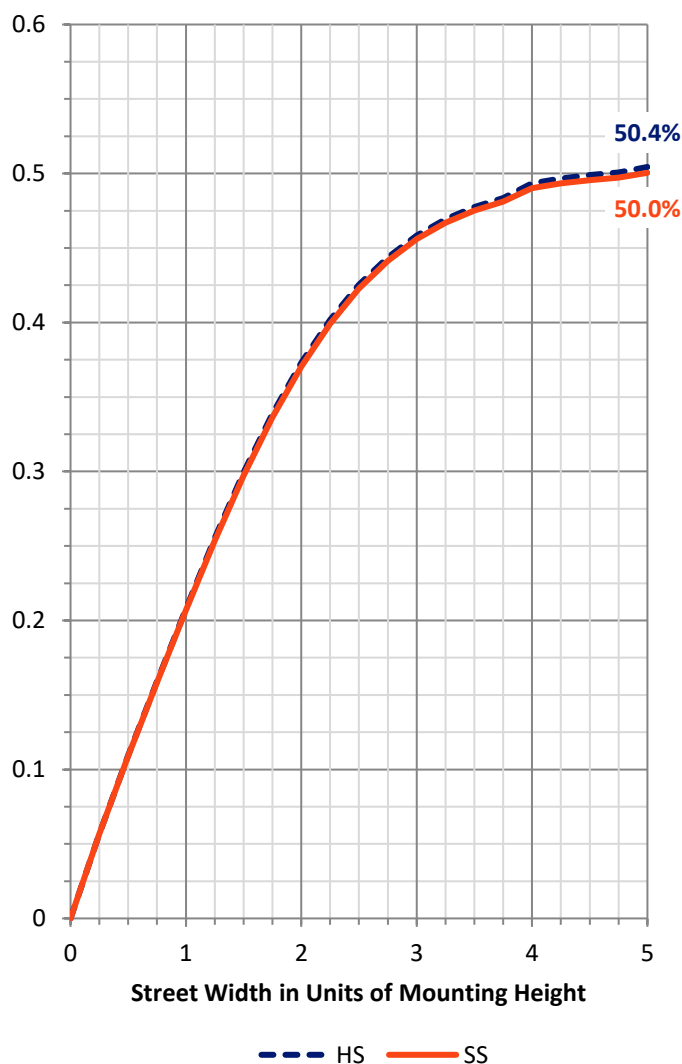
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2813.5   | 0.0    | 2813.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2813.5   | 0.0    | 2813.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5627.0   | 0.0    | 5627.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.1   | 0.4       |
| 10°-20°   | 88.6   | 1.6       |
| 20°-30°   | 167.5  | 3.0       |
| 30°-40°   | 291.7  | 5.2       |
| 40°-50°   | 557.6  | 9.9       |
| 50°-60°   | 1081.3 | 19.2      |
| 60°-70°   | 1893.4 | 33.6      |
| 70°-80°   | 1423.0 | 25.3      |
| 80°-90°   | 101.8  | 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°    | 5627.0 | 100.0     |
| 0°-180°   | 5627.0 | 100.0     |

**Coefficient of Utilization**



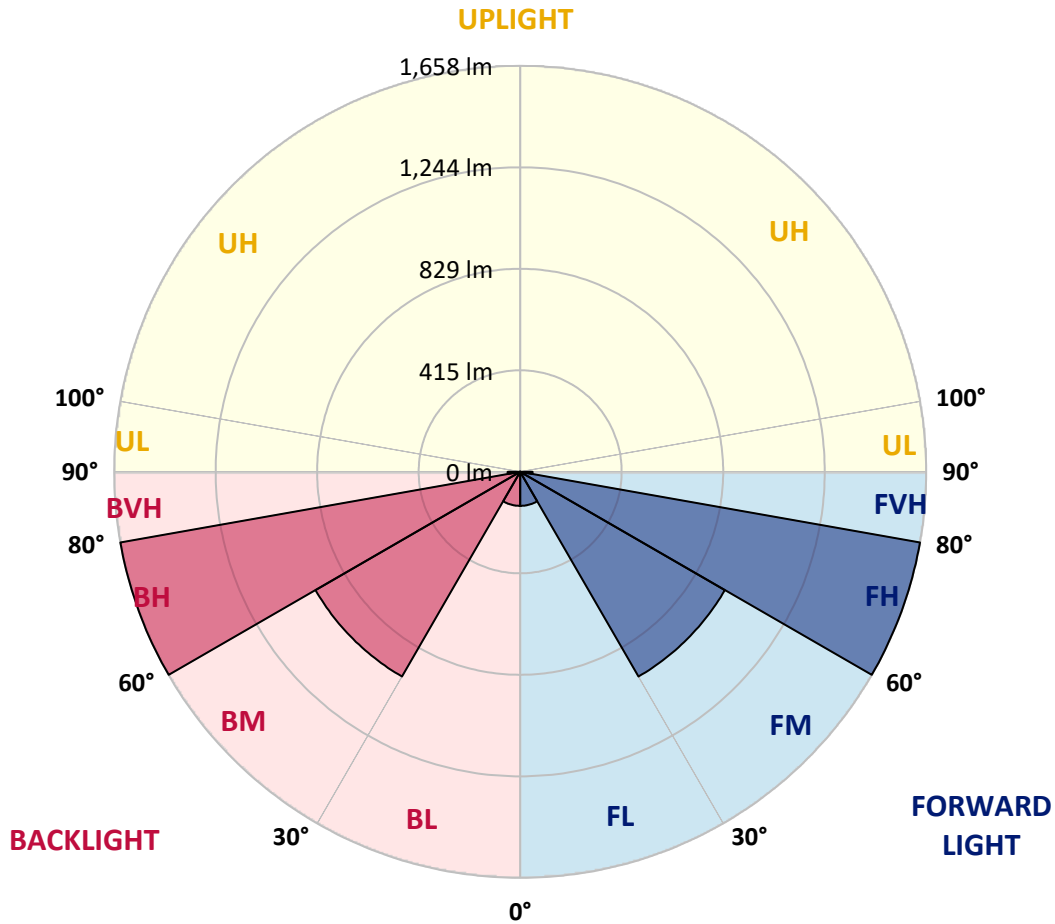
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 139.1  | 2.5       |                         |      |         |
| FM (30°-60°)   | 965.3  | 17.2      |                         |      |         |
| FH (60°-80°)   | 1658.2 | 29.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 50.9   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 139.1  | 2.5       | B1/500                  |      |         |
| BM (30°-60°)   | 965.3  | 17.2      | B1/1000                 |      |         |
| BH (60°-80°)   | 1658.2 | 29.5      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 50.9   | 0.9       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 152.1  | 152.1  | 152.1  | 152.1  | 152.1  | 152.1  | 152.1  | 152.1  | 152.1  | 152.1  | 152.1  |
| 2.5°  | 185.1  | 182.3  | 173.3  | 173.8  | 177.9  | 178.3  | 178.8  | 173.3  | 172.0  | 183.1  | 183.8  |
| 5°    | 235.1  | 228.6  | 222.0  | 219.4  | 215.5  | 204.5  | 216.5  | 217.9  | 220.5  | 229.0  | 232.9  |
| 7.5°  | 268.5  | 260.4  | 251.5  | 246.0  | 235.3  | 226.4  | 236.2  | 244.3  | 249.5  | 259.1  | 264.6  |
| 10°   | 274.8  | 270.0  | 269.6  | 260.0  | 258.0  | 261.3  | 260.6  | 260.9  | 268.7  | 268.9  | 272.2  |
| 12.5° | 294.7  | 298.2  | 291.4  | 288.1  | 290.1  | 298.2  | 291.6  | 288.8  | 290.8  | 299.7  | 296.0  |
| 15°   | 320.7  | 324.8  | 314.6  | 309.3  | 304.1  | 311.7  | 305.0  | 310.0  | 316.3  | 322.9  | 319.6  |
| 17.5° | 349.5  | 349.7  | 335.7  | 316.3  | 320.9  | 322.0  | 319.6  | 315.4  | 333.6  | 349.3  | 347.7  |
| 20°   | 365.2  | 365.0  | 341.0  | 314.6  | 328.1  | 330.5  | 328.3  | 314.1  | 341.4  | 363.0  | 362.4  |
| 22.5° | 381.4  | 376.6  | 347.7  | 326.3  | 331.4  | 333.3  | 328.3  | 327.0  | 347.7  | 377.9  | 377.6  |
| 25°   | 390.1  | 394.2  | 362.6  | 349.3  | 345.1  | 340.5  | 344.9  | 347.1  | 366.9  | 396.4  | 387.9  |
| 27.5° | 417.4  | 410.6  | 366.9  | 365.6  | 356.9  | 338.8  | 353.9  | 364.5  | 365.6  | 413.2  | 422.0  |
| 30°   | 442.0  | 444.7  | 386.6  | 388.6  | 372.6  | 349.7  | 373.1  | 390.1  | 393.4  | 445.1  | 444.2  |
| 32.5° | 468.2  | 469.3  | 421.5  | 401.2  | 394.5  | 393.6  | 384.6  | 399.5  | 425.2  | 466.7  | 468.5  |
| 35°   | 508.0  | 516.9  | 452.7  | 425.5  | 416.9  | 408.2  | 416.1  | 429.4  | 453.4  | 515.6  | 511.2  |
| 37.5° | 599.0  | 584.8  | 520.6  | 464.1  | 458.4  | 454.9  | 461.3  | 470.9  | 520.0  | 586.3  | 606.6  |
| 40°   | 662.5  | 655.8  | 568.4  | 528.0  | 492.2  | 511.0  | 496.2  | 533.3  | 573.9  | 656.2  | 669.3  |
| 42.5° | 761.0  | 730.8  | 641.1  | 591.1  | 554.0  | 540.7  | 549.0  | 597.5  | 649.2  | 740.9  | 766.6  |
| 45°   | 855.5  | 809.0  | 732.2  | 688.1  | 631.7  | 617.8  | 628.9  | 685.9  | 745.7  | 818.2  | 863.6  |
| 47.5° | 952.0  | 903.9  | 819.5  | 755.7  | 709.7  | 751.4  | 714.9  | 769.0  | 828.6  | 912.9  | 953.3  |
| 50°   | 1052.2 | 998.9  | 915.5  | 846.1  | 842.2  | 879.1  | 835.4  | 863.1  | 918.4  | 1005.7 | 1053.3 |
| 52.5° | 1167.2 | 1109.8 | 1026.4 | 979.5  | 988.6  | 986.2  | 977.5  | 972.5  | 1026.8 | 1112.6 | 1169.2 |
| 55°   | 1304.1 | 1242.1 | 1175.5 | 1153.9 | 1179.2 | 1151.9 | 1164.8 | 1163.1 | 1170.9 | 1232.3 | 1298.4 |
| 57.5° | 1469.5 | 1399.5 | 1332.7 | 1327.9 | 1360.4 | 1386.2 | 1363.2 | 1330.3 | 1316.5 | 1376.1 | 1451.9 |
| 60°   | 1678.0 | 1592.0 | 1518.7 | 1503.6 | 1596.4 | 1596.2 | 1575.4 | 1501.6 | 1496.4 | 1563.8 | 1655.1 |
| 62.5° | 1908.3 | 1803.5 | 1723.4 | 1699.4 | 1844.8 | 1861.2 | 1796.5 | 1664.3 | 1691.3 | 1745.7 | 1854.0 |
| 65°   | 2103.9 | 1977.9 | 1903.3 | 1896.7 | 2074.4 | 2146.7 | 2003.9 | 1823.0 | 1831.7 | 1876.9 | 1994.1 |
| 67.5° | 2231.4 | 2079.7 | 2020.3 | 2052.0 | 2272.9 | 2318.0 | 2185.3 | 1929.1 | 1898.1 | 1916.8 | 2057.0 |
| 70°   | 2186.6 | 2019.9 | 1977.1 | 2053.9 | 2324.2 | 2392.5 | 2224.4 | 1899.4 | 1833.4 | 1834.3 | 1997.2 |
| 72.5° | 1847.6 | 1688.9 | 1709.2 | 1850.2 | 2202.8 | 2298.6 | 2043.7 | 1715.6 | 1580.7 | 1577.4 | 1725.2 |
| 75°   | 1221.8 | 1115.7 | 1195.8 | 1415.6 | 1831.3 | 2027.3 | 1693.3 | 1344.7 | 1175.5 | 1120.5 | 1234.7 |
| 77.5° | 534.4  | 520.8  | 588.3  | 836.7  | 1248.4 | 1461.0 | 1213.1 | 878.4  | 639.4  | 531.8  | 580.9  |
| 80°   | 143.2  | 140.1  | 175.9  | 317.4  | 607.7  | 804.6  | 656.4  | 350.4  | 182.9  | 133.2  | 141.2  |
| 82.5° | 52.2   | 53.5   | 65.3   | 88.8   | 200.2  | 338.8  | 218.1  | 102.4  | 69.2   | 56.8   | 56.8   |
| 85°   | 22.7   | 22.0   | 31.7   | 35.6   | 54.6   | 76.6   | 62.6   | 43.4   | 34.9   | 26.2   | 25.1   |
| 87.5° | 6.1    | 7.6    | 10.7   | 11.1   | 14.2   | 11.6   | 16.6   | 15.3   | 13.1   | 9.2    | 7.4    |
| 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)