

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: P597290

Luminaire Tested: **PMM-SA2B-722-U-5NQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2B-722-U-5NQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7493 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

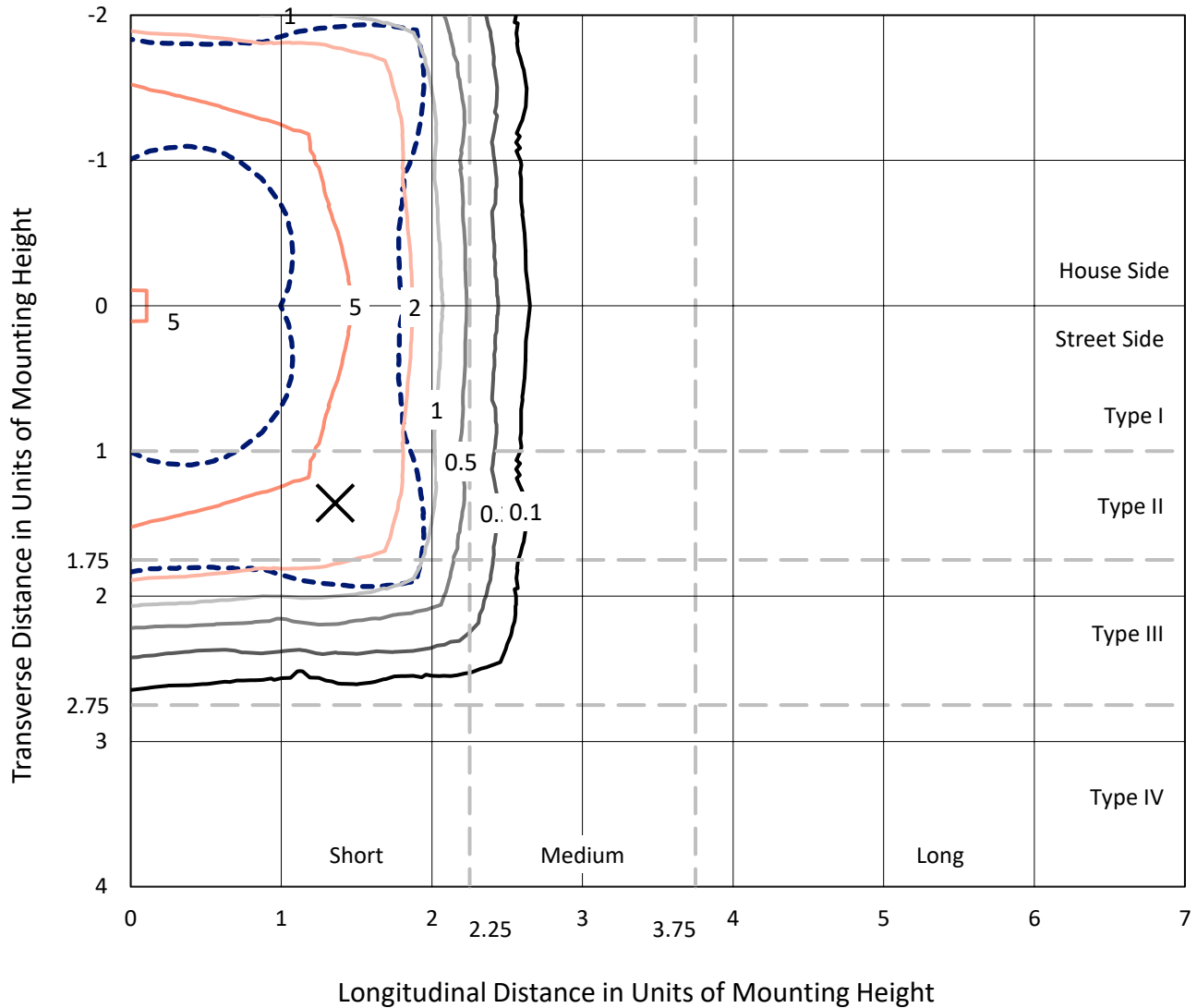
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

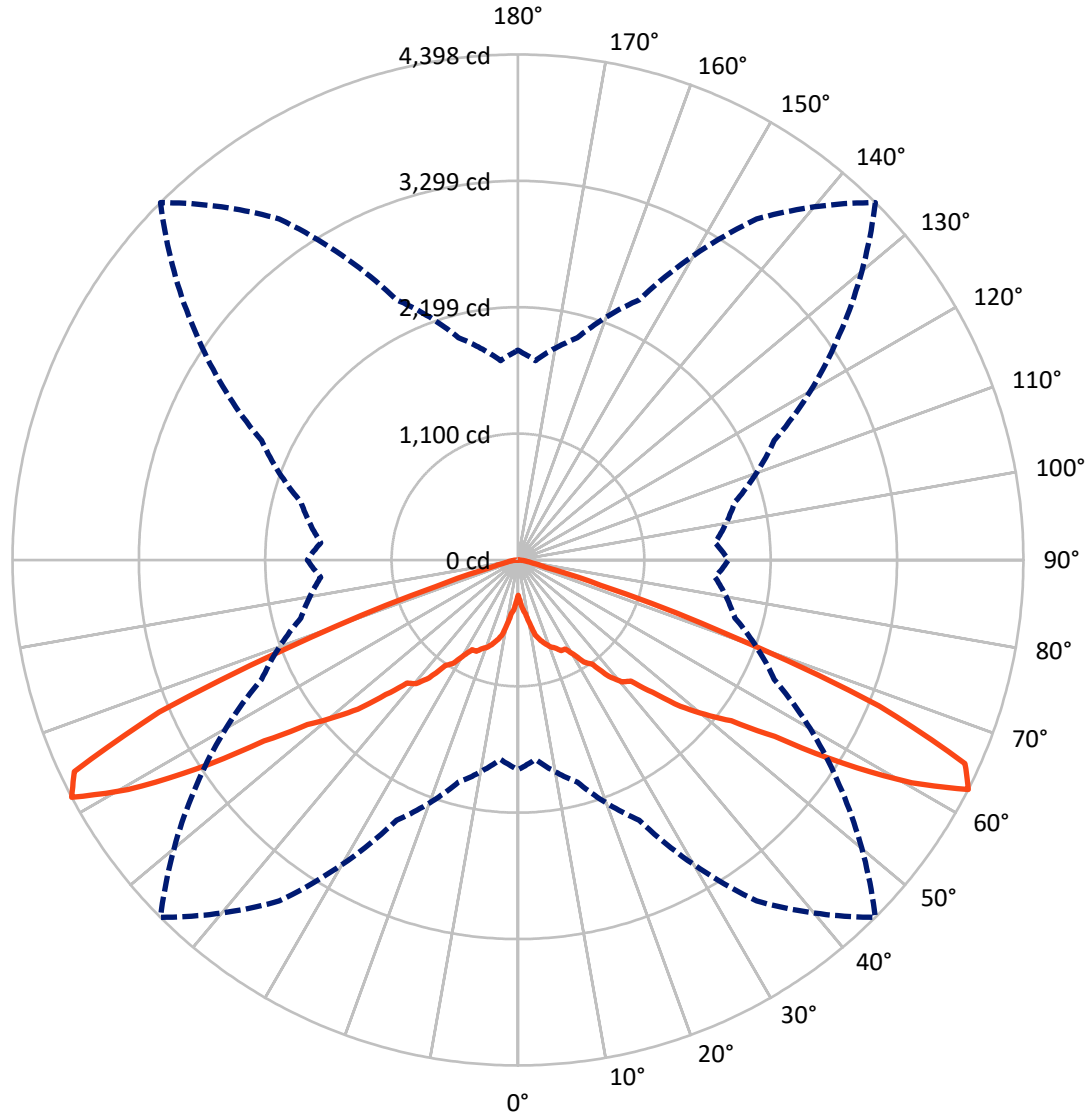
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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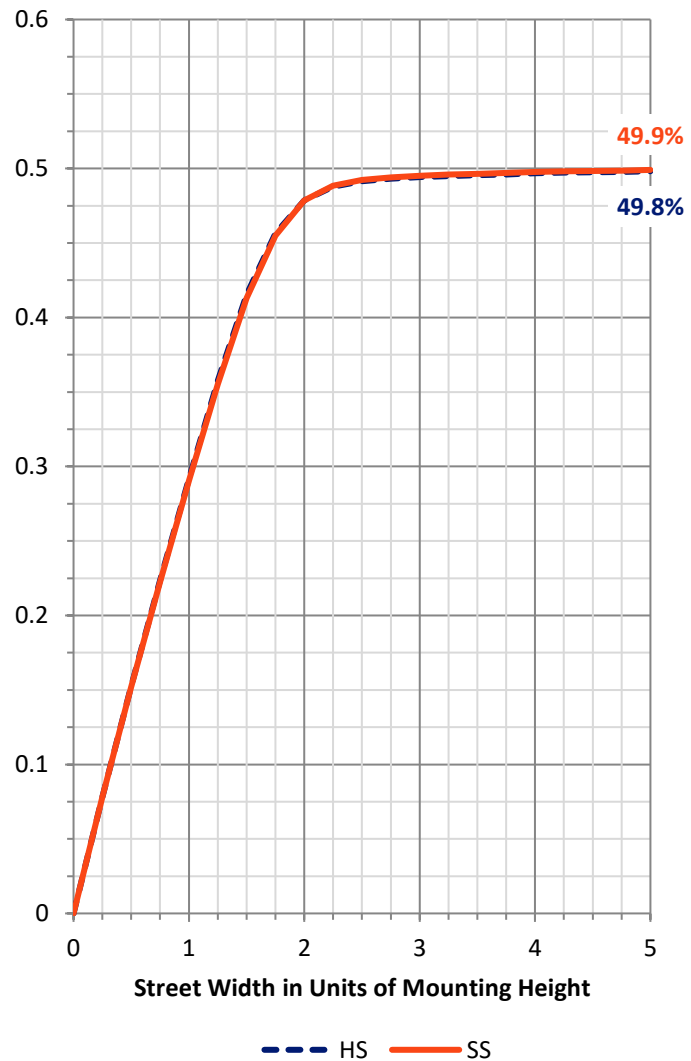
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3746.5   | 0.0    | 3746.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3746.5   | 0.0    | 3746.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7493.0   | 0.0    | 7493.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.2   | 0.6       |
| 10°-20°   | 203.6  | 2.7       |
| 20°-30°   | 426.7  | 5.7       |
| 30°-40°   | 804.0  | 10.7      |
| 40°-50°   | 1459.2 | 19.5      |
| 50°-60°   | 2465.6 | 32.9      |
| 60°-70°   | 1843.2 | 24.6      |
| 70°-80°   | 206.2  | 2.8       |
| 80°-90°   | 38.4   | 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°    | 7493.0 | 100.0     |
| 0°-180°   | 7493.0 | 100.0     |



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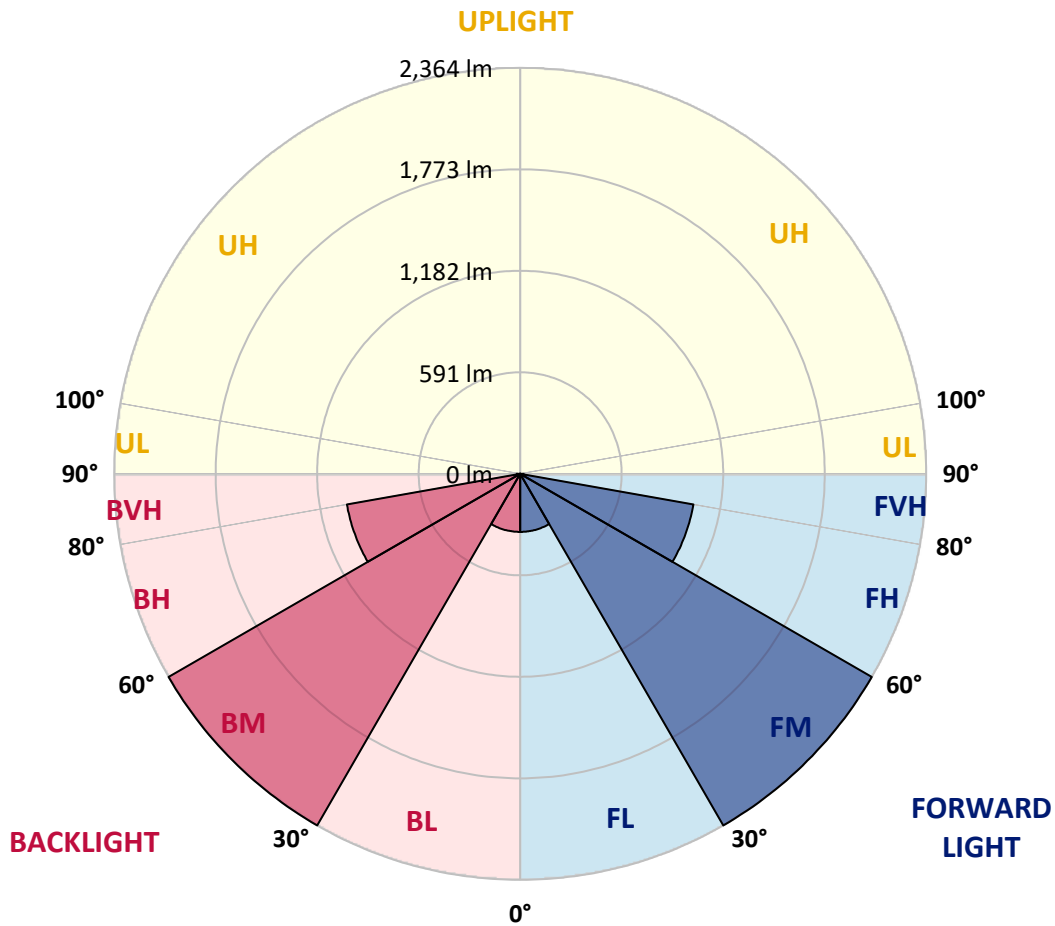
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 338.2  | 4.5       |                         |      |         |
| FM (30°-60°)   | 2364.4 | 31.6      |                         |      |         |
| FH (60°-80°)   | 1024.7 | 13.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 19.2   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 338.2  | 4.5       | B1/500                  |      |         |
| BM (30°-60°)   | 2364.4 | 31.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 1024.7 | 13.7      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 19.2   | 0.3       |                         |      | 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°    | 306.4  | 306.4  | 306.4  | 306.4  | 306.4  | 306.4  | 306.4  | 306.4  | 306.4  | 306.4  | 306.4  |
| 2.5°  | 372.5  | 365.8  | 342.3  | 350.6  | 359.1  | 357.9  | 355.8  | 349.4  | 343.6  | 367.6  | 372.5  |
| 5°    | 474.9  | 459.7  | 451.5  | 444.8  | 443.2  | 426.8  | 449.3  | 446.9  | 454.5  | 467.3  | 479.8  |
| 7.5°  | 556.6  | 542.3  | 520.7  | 516.1  | 491.4  | 473.1  | 492.6  | 516.7  | 524.3  | 547.8  | 561.8  |
| 10°   | 586.5  | 574.0  | 578.0  | 557.6  | 556.3  | 561.5  | 557.3  | 562.7  | 582.9  | 580.1  | 590.5  |
| 12.5° | 653.6  | 655.7  | 642.9  | 637.7  | 648.1  | 670.7  | 651.5  | 644.7  | 639.9  | 660.6  | 667.0  |
| 15°   | 716.4  | 728.9  | 707.8  | 704.5  | 700.2  | 721.3  | 700.5  | 710.6  | 719.4  | 723.7  | 721.3  |
| 17.5° | 805.4  | 806.0  | 782.5  | 745.0  | 759.1  | 765.8  | 756.6  | 739.2  | 781.0  | 802.0  | 803.3  |
| 20°   | 863.9  | 866.1  | 819.7  | 761.2  | 800.8  | 806.9  | 802.4  | 766.1  | 821.6  | 856.6  | 855.1  |
| 22.5° | 927.0  | 919.7  | 856.9  | 814.2  | 828.3  | 831.9  | 822.2  | 817.6  | 856.6  | 920.3  | 910.9  |
| 25°   | 969.4  | 982.8  | 920.3  | 892.9  | 881.0  | 872.5  | 885.0  | 887.4  | 927.3  | 985.3  | 953.2  |
| 27.5° | 1070.6 | 1047.4 | 949.6  | 960.0  | 934.7  | 877.0  | 931.9  | 962.1  | 953.6  | 1052.3 | 1076.4 |
| 30°   | 1160.5 | 1161.2 | 1024.0 | 1043.8 | 996.8  | 950.2  | 1009.6 | 1053.2 | 1042.6 | 1169.1 | 1146.2 |
| 32.5° | 1275.5 | 1279.7 | 1152.3 | 1099.3 | 1067.6 | 1058.7 | 1051.4 | 1099.6 | 1166.0 | 1268.5 | 1270.6 |
| 35°   | 1399.5 | 1436.1 | 1263.0 | 1207.2 | 1153.2 | 1114.2 | 1156.3 | 1223.0 | 1266.3 | 1430.0 | 1401.1 |
| 37.5° | 1641.3 | 1579.7 | 1438.0 | 1333.1 | 1298.6 | 1283.1 | 1305.3 | 1344.1 | 1437.6 | 1578.8 | 1628.5 |
| 40°   | 1784.3 | 1767.2 | 1574.2 | 1486.4 | 1353.5 | 1395.0 | 1382.8 | 1488.9 | 1566.3 | 1776.9 | 1781.5 |
| 42.5° | 2002.8 | 1916.9 | 1743.4 | 1631.8 | 1512.3 | 1440.4 | 1516.6 | 1659.0 | 1752.6 | 1930.6 | 2014.7 |
| 45°   | 2175.7 | 2065.3 | 1931.5 | 1846.7 | 1695.9 | 1642.5 | 1669.9 | 1852.2 | 1969.6 | 2091.8 | 2202.5 |
| 47.5° | 2366.8 | 2247.3 | 2113.5 | 1962.9 | 1815.7 | 1902.5 | 1854.1 | 2014.4 | 2129.0 | 2304.3 | 2408.0 |
| 50°   | 2607.0 | 2474.7 | 2303.4 | 2179.0 | 2081.5 | 2112.0 | 2104.3 | 2218.7 | 2360.1 | 2519.8 | 2637.5 |
| 52.5° | 2871.6 | 2722.0 | 2556.7 | 2441.2 | 2400.0 | 2324.4 | 2423.2 | 2470.2 | 2574.4 | 2720.7 | 2858.8 |
| 55°   | 3056.7 | 2907.0 | 2807.0 | 2844.2 | 2833.2 | 2711.9 | 2798.5 | 2803.4 | 2753.1 | 2805.8 | 2944.8 |
| 57.5° | 3028.0 | 2885.0 | 2871.3 | 3011.9 | 3221.9 | 3339.3 | 3205.4 | 2917.7 | 2729.3 | 2704.6 | 2851.8 |
| 60°   | 2647.6 | 2525.3 | 2650.9 | 2968.0 | 3579.8 | 3937.1 | 3421.9 | 2831.4 | 2521.1 | 2392.7 | 2534.8 |
| 62.5° | 1824.5 | 1741.9 | 2002.2 | 2497.9 | 3622.8 | 4398.3 | 3414.0 | 2460.4 | 1955.3 | 1722.4 | 1832.7 |
| 65°   | 864.8  | 835.0  | 1054.8 | 1583.7 | 3017.7 | 4275.1 | 2982.6 | 1664.8 | 1125.5 | 899.0  | 924.0  |
| 67.5° | 325.3  | 310.3  | 387.2  | 699.6  | 1900.7 | 3390.8 | 2005.0 | 821.3  | 435.3  | 338.4  | 350.0  |
| 70°   | 184.7  | 174.1  | 184.1  | 255.2  | 765.2  | 1920.5 | 864.8  | 281.7  | 185.0  | 168.6  | 179.6  |
| 72.5° | 145.4  | 137.2  | 138.7  | 154.3  | 264.0  | 753.9  | 279.8  | 160.7  | 134.4  | 127.7  | 137.5  |
| 75°   | 120.1  | 112.8  | 112.5  | 121.0  | 153.9  | 244.8  | 158.2  | 122.9  | 108.8  | 104.0  | 111.9  |
| 77.5° | 95.4   | 91.1   | 92.4   | 99.1   | 110.4  | 136.9  | 114.6  | 99.4   | 89.3   | 83.5   | 89.0   |
| 80°   | 69.8   | 69.2   | 74.1   | 80.2   | 82.3   | 92.1   | 86.0   | 80.2   | 71.3   | 63.1   | 65.2   |
| 82.5° | 45.7   | 46.0   | 55.2   | 60.1   | 59.1   | 58.8   | 61.6   | 61.3   | 53.3   | 41.8   | 41.8   |
| 85°   | 26.2   | 26.8   | 33.8   | 37.8   | 37.2   | 29.6   | 39.0   | 39.3   | 34.1   | 25.3   | 24.4   |
| 87.5° | 8.5    | 10.7   | 14.6   | 15.5   | 14.9   | 8.2    | 14.9   | 16.5   | 14.9   | 10.7   | 9.5    |
| 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)