

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: P572922

Luminaire Tested: **ARCH-S-PA2-130-750-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-750-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16725 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

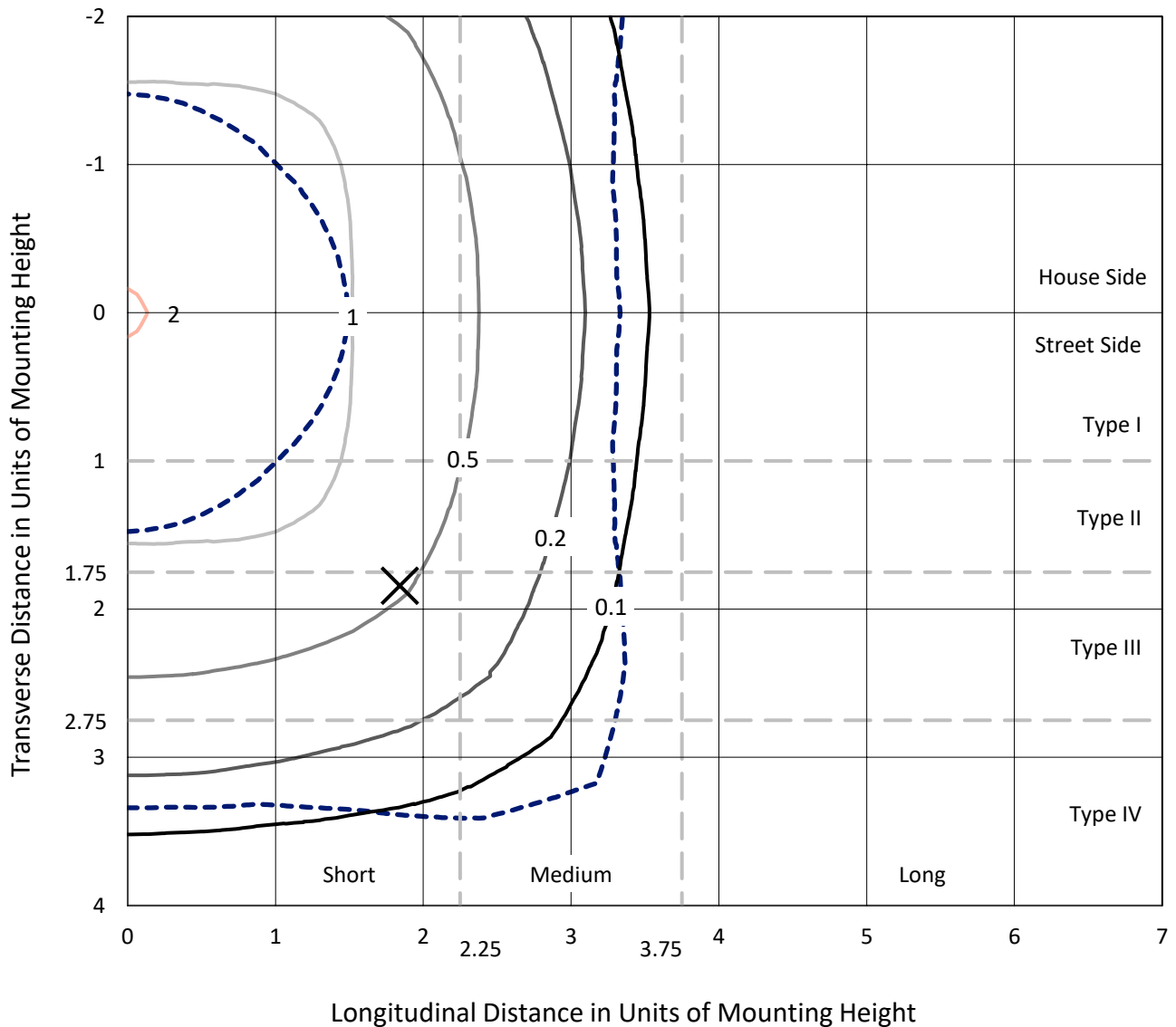
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

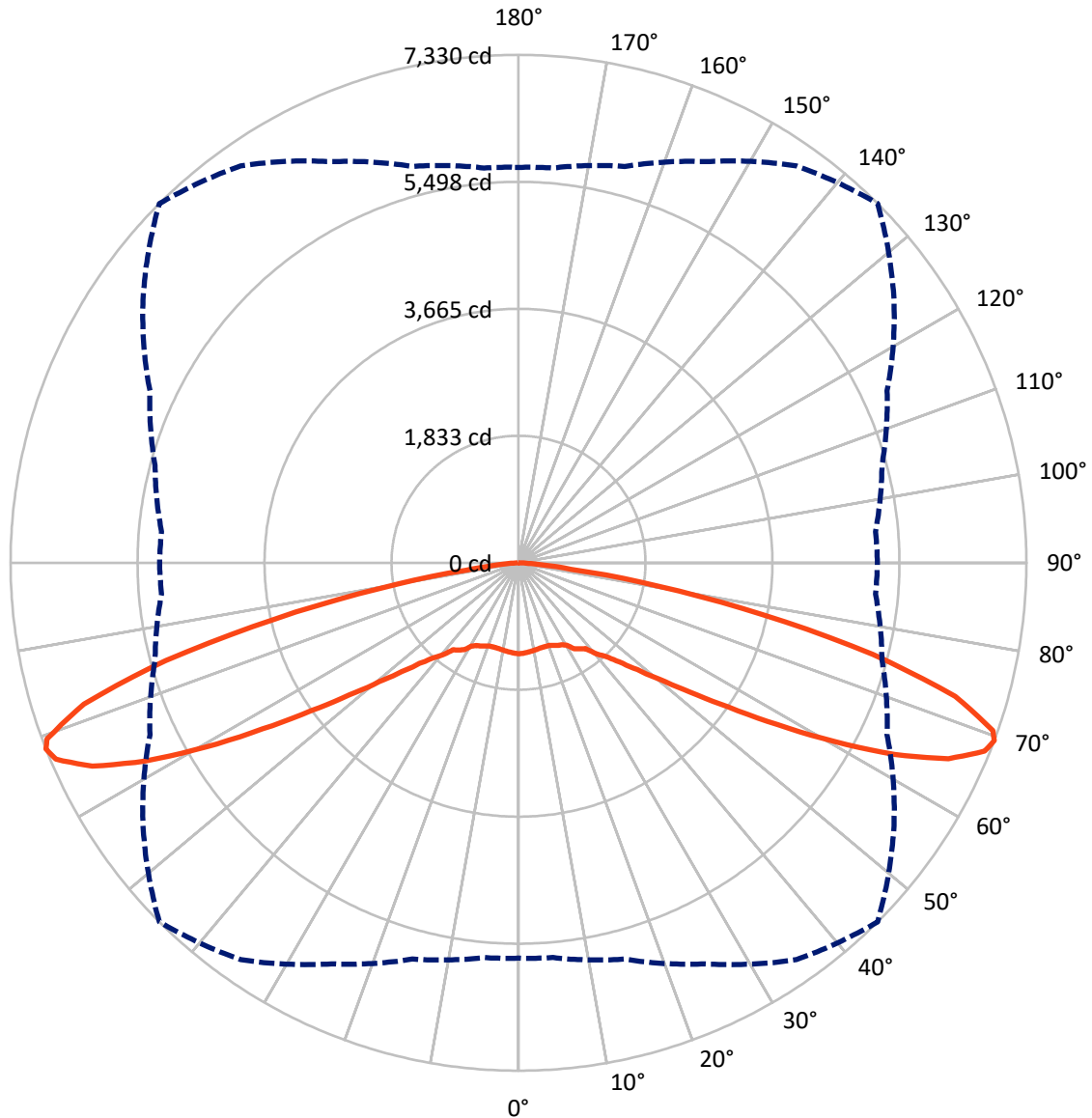
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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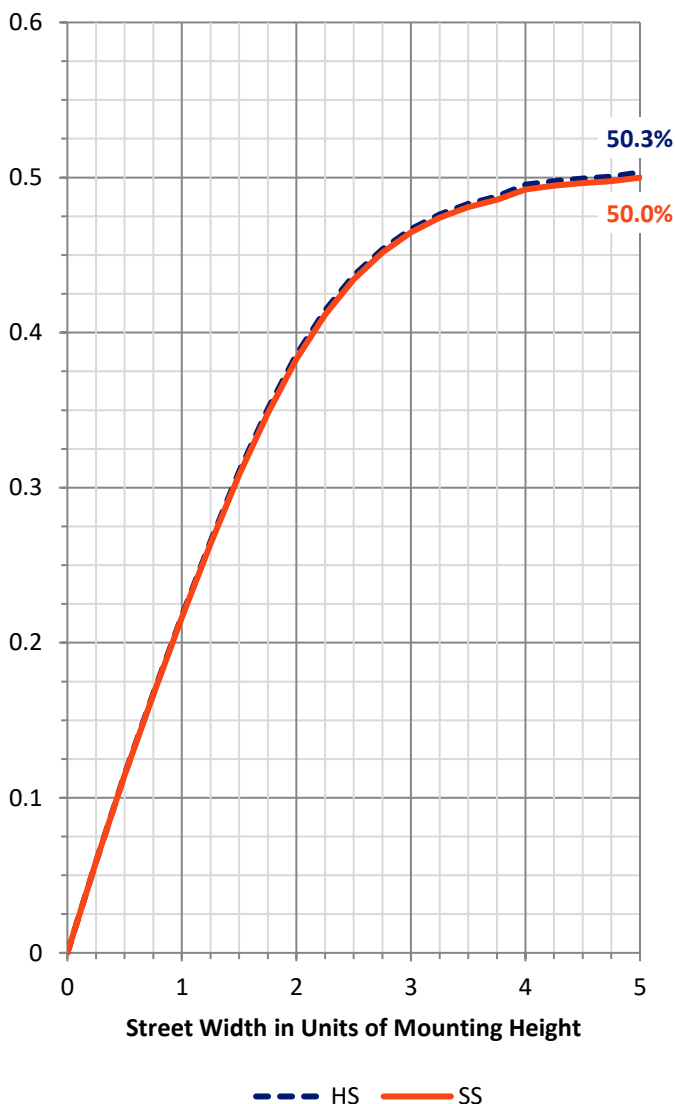
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8362.5   | 0.0    | 8362.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8362.5   | 0.0    | 8362.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16725.0  | 0.0    | 16725.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.7   | 0.7       |
| 10°-20°   | 363.5   | 2.2       |
| 20°-30°   | 616.5   | 3.7       |
| 30°-40°   | 958.5   | 5.7       |
| 40°-50°   | 1645.4  | 9.8       |
| 50°-60°   | 3273.6  | 19.6      |
| 60°-70°   | 5831.5  | 34.9      |
| 70°-80°   | 3672.6  | 22.0      |
| 80°-90°   | 239.9   | 1.4       |
| 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°    | 16725.0 | 100.0     |
| 0°-180°   | 16725.0 | 100.0     |

**Coefficient of Utilization**



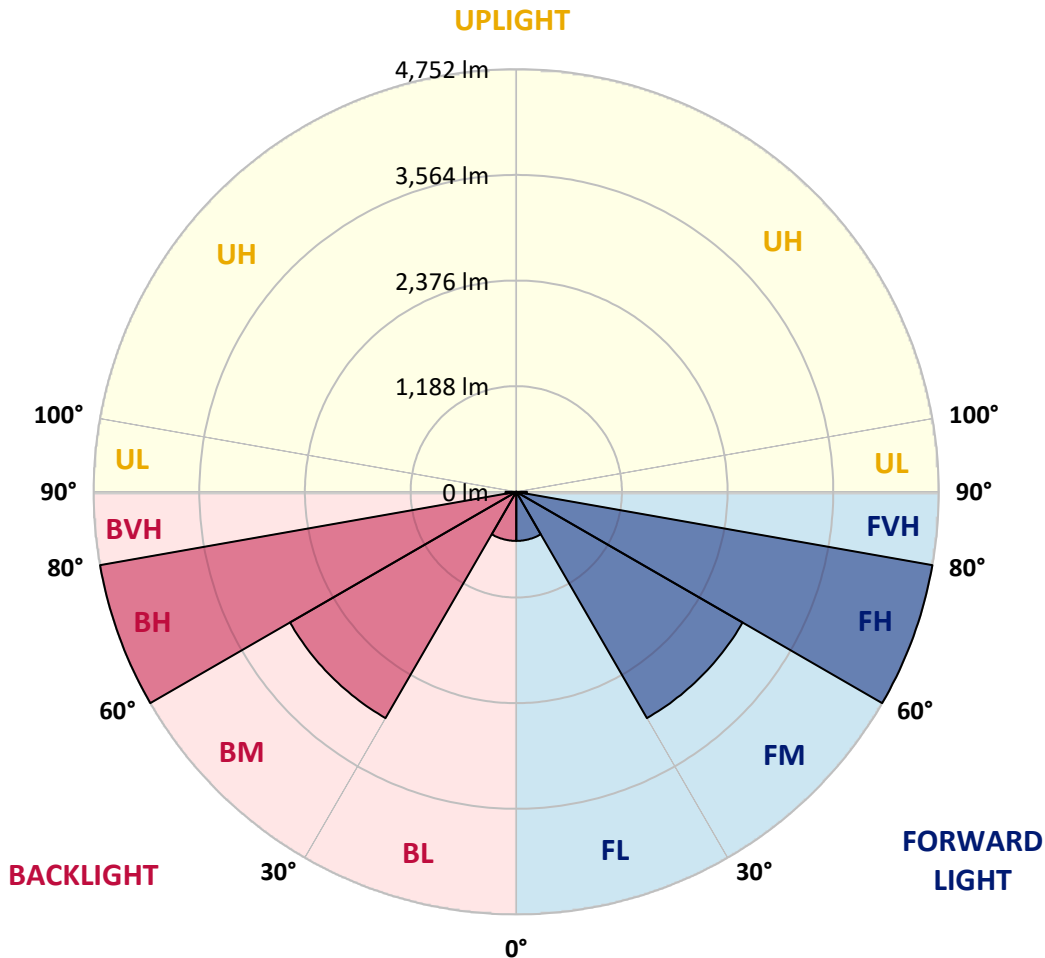
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 551.8  | 3.3       |                         |      |         |
| FM (30°-60°)   | 2938.7 | 17.6      |                         |      |         |
| FH (60°-80°)   | 4752.0 | 28.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 119.9  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 551.8  | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 2938.7 | 17.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 4752.0 | 28.4      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 119.9  | 0.7       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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CATALOG NUMBER: ARCH-S-PA2-130-750-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1312.4 | 1312.4 | 1312.4 | 1312.4 | 1312.4 | 1312.4 | 1312.4 | 1312.4 | 1312.4 | 1312.4 | 1312.4 |
| 2.5°  | 1321.2 | 1316.8 | 1316.8 | 1312.4 | 1308.0 | 1308.0 | 1308.0 | 1303.7 | 1308.0 | 1308.0 | 1308.0 |
| 5°    | 1316.8 | 1312.4 | 1308.0 | 1303.7 | 1303.7 | 1299.3 | 1303.7 | 1299.3 | 1299.3 | 1299.3 | 1299.3 |
| 7.5°  | 1303.7 | 1303.7 | 1294.9 | 1294.9 | 1290.5 | 1290.5 | 1286.1 | 1286.1 | 1286.1 | 1281.7 | 1281.7 |
| 10°   | 1303.7 | 1299.3 | 1294.9 | 1286.1 | 1281.7 | 1281.7 | 1281.7 | 1277.3 | 1281.7 | 1281.7 | 1281.7 |
| 12.5° | 1303.7 | 1303.7 | 1290.5 | 1281.7 | 1272.9 | 1272.9 | 1272.9 | 1272.9 | 1281.7 | 1286.1 | 1286.1 |
| 15°   | 1312.4 | 1308.0 | 1294.9 | 1277.3 | 1268.5 | 1268.5 | 1268.5 | 1272.9 | 1281.7 | 1290.5 | 1290.5 |
| 17.5° | 1316.8 | 1308.0 | 1290.5 | 1272.9 | 1268.5 | 1268.5 | 1268.5 | 1272.9 | 1286.1 | 1294.9 | 1299.3 |
| 20°   | 1321.2 | 1316.8 | 1294.9 | 1277.3 | 1272.9 | 1272.9 | 1272.9 | 1272.9 | 1286.1 | 1299.3 | 1303.7 |
| 22.5° | 1334.4 | 1330.0 | 1308.0 | 1294.9 | 1290.5 | 1294.9 | 1290.5 | 1290.5 | 1303.7 | 1321.2 | 1321.2 |
| 25°   | 1351.9 | 1343.2 | 1321.2 | 1312.4 | 1312.4 | 1321.2 | 1321.2 | 1312.4 | 1325.6 | 1338.8 | 1343.2 |
| 27.5° | 1382.7 | 1373.9 | 1351.9 | 1343.2 | 1338.8 | 1338.8 | 1338.8 | 1338.8 | 1347.6 | 1369.5 | 1369.5 |
| 30°   | 1409.0 | 1404.6 | 1395.8 | 1395.8 | 1391.4 | 1382.7 | 1382.7 | 1391.4 | 1395.8 | 1404.6 | 1409.0 |
| 32.5° | 1444.1 | 1435.3 | 1426.6 | 1426.6 | 1452.9 | 1479.2 | 1457.3 | 1422.2 | 1417.8 | 1422.2 | 1426.6 |
| 35°   | 1518.7 | 1510.0 | 1488.0 | 1474.8 | 1501.2 | 1527.5 | 1492.4 | 1470.5 | 1483.6 | 1496.8 | 1496.8 |
| 37.5° | 1624.1 | 1619.7 | 1602.1 | 1575.8 | 1567.0 | 1571.4 | 1558.2 | 1575.8 | 1610.9 | 1637.3 | 1641.6 |
| 40°   | 1733.8 | 1729.4 | 1711.9 | 1698.7 | 1703.1 | 1725.0 | 1716.3 | 1698.7 | 1720.7 | 1738.2 | 1738.2 |
| 42.5° | 1905.0 | 1887.5 | 1861.1 | 1826.0 | 1830.4 | 1847.9 | 1826.0 | 1843.6 | 1874.3 | 1905.0 | 1909.4 |
| 45°   | 2133.3 | 2115.7 | 2080.6 | 2049.9 | 2027.9 | 2036.7 | 2036.7 | 2067.4 | 2102.5 | 2137.6 | 2150.8 |
| 47.5° | 2379.1 | 2374.7 | 2339.6 | 2313.2 | 2291.3 | 2304.4 | 2304.4 | 2304.4 | 2361.5 | 2396.6 | 2396.6 |
| 50°   | 2681.9 | 2668.8 | 2668.8 | 2646.8 | 2638.0 | 2642.4 | 2624.9 | 2642.4 | 2668.8 | 2677.5 | 2664.4 |
| 52.5° | 3041.9 | 3028.7 | 3037.5 | 3046.3 | 3068.2 | 3098.9 | 3055.0 | 3050.6 | 3037.5 | 3024.3 | 3019.9 |
| 55°   | 3472.0 | 3485.2 | 3520.3 | 3577.4 | 3612.5 | 3673.9 | 3608.1 | 3529.1 | 3494.0 | 3458.9 | 3432.5 |
| 57.5° | 3985.6 | 4007.5 | 4060.2 | 4196.3 | 4345.5 | 4402.6 | 4288.5 | 4143.6 | 4020.7 | 3919.8 | 3941.7 |
| 60°   | 4657.2 | 4644.0 | 4731.8 | 4916.2 | 5126.8 | 5241.0 | 5061.0 | 4824.0 | 4626.4 | 4578.2 | 4591.3 |
| 62.5° | 5372.7 | 5399.0 | 5460.4 | 5706.2 | 5969.6 | 6092.5 | 5873.0 | 5521.9 | 5267.3 | 5135.6 | 5135.6 |
| 65°   | 5820.4 | 5837.9 | 6009.1 | 6355.9 | 6650.0 | 6816.8 | 6505.1 | 5995.9 | 5631.6 | 5412.2 | 5399.0 |
| 67.5° | 5886.2 | 5903.8 | 6096.9 | 6540.2 | 7023.1 | 7255.7 | 6715.8 | 6053.0 | 5627.2 | 5359.5 | 5350.7 |
| 69°   | 5706.2 | 5719.4 | 5921.3 | 6386.6 | 6992.3 | 7330.3 | 6614.9 | 5868.7 | 5429.7 | 5170.7 | 5179.5 |
| 70°   | 5447.3 | 5499.9 | 5653.6 | 6127.6 | 6829.9 | 7264.5 | 6430.5 | 5662.4 | 5205.9 | 4999.5 | 4964.4 |
| 72.5° | 4270.9 | 4306.0 | 4560.6 | 5148.8 | 6096.9 | 6592.9 | 5649.2 | 4793.2 | 4328.0 | 4112.9 | 4165.6 |
| 75°   | 2418.6 | 2409.8 | 2734.6 | 3577.4 | 4701.1 | 5280.5 | 4446.5 | 3450.1 | 2774.1 | 2515.1 | 2550.3 |
| 77.5° | 921.8  | 961.3  | 1180.8 | 1834.8 | 2954.1 | 3608.1 | 2949.7 | 1843.6 | 1290.5 | 1005.2 | 956.9  |
| 80°   | 298.5  | 316.0  | 417.0  | 667.2  | 1259.8 | 2036.7 | 1378.3 | 711.1  | 447.7  | 338.0  | 316.0  |
| 82.5° | 118.5  | 131.7  | 158.0  | 223.9  | 425.8  | 768.1  | 465.3  | 259.0  | 193.1  | 158.0  | 144.9  |
| 85°   | 65.8   | 61.5   | 83.4   | 101.0  | 144.9  | 219.5  | 158.0  | 122.9  | 105.3  | 74.6   | 70.2   |
| 87.5° | 21.9   | 21.9   | 35.1   | 35.1   | 39.5   | 35.1   | 39.5   | 43.9   | 43.9   | 26.3   | 21.9   |
| 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)