

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: P882962

Luminaire Tested: **NVN-SB3A-830-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3A-830-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

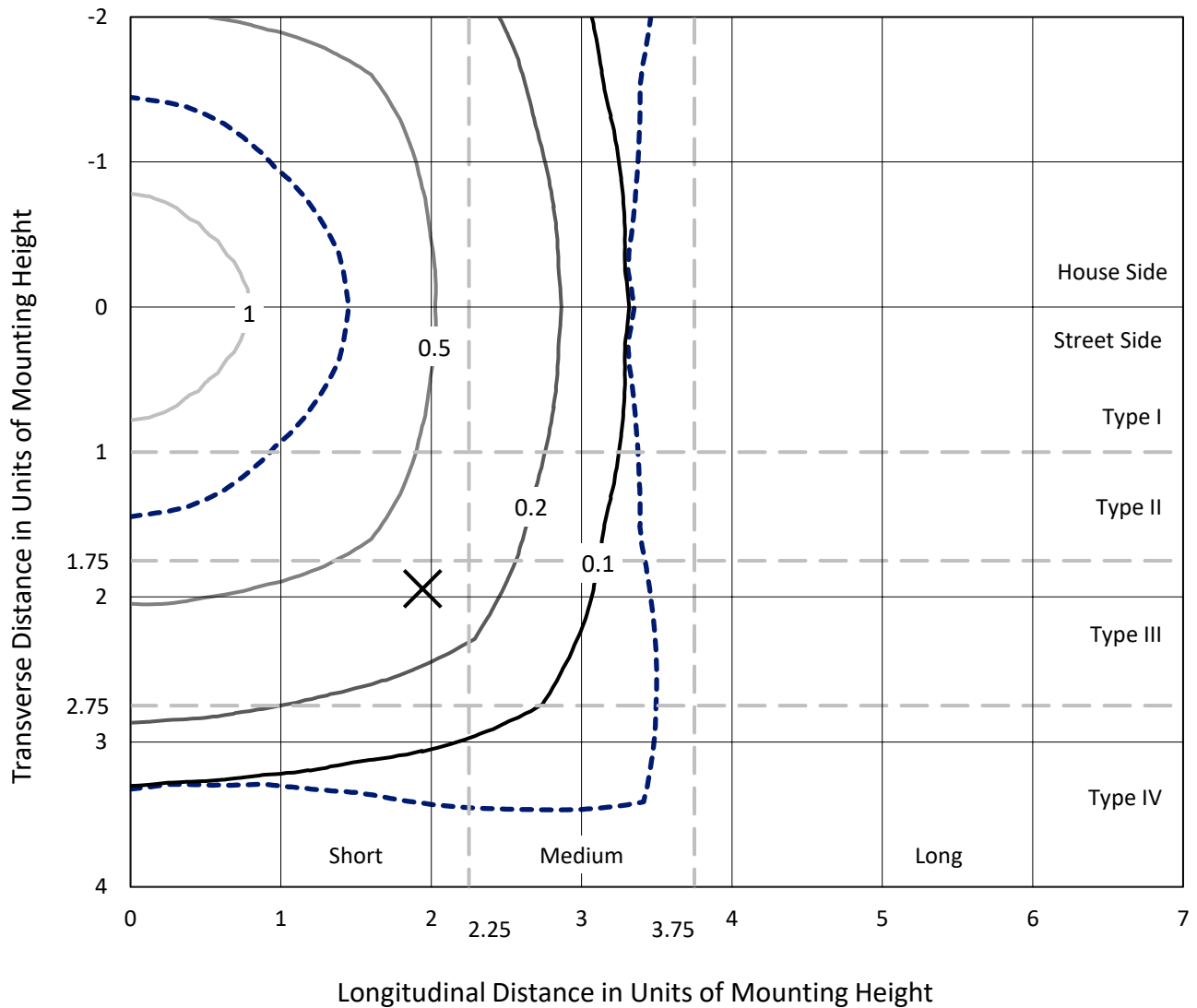
Lumens per Lamp: N/A  
Luminaire Lumens: 11909 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.717  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

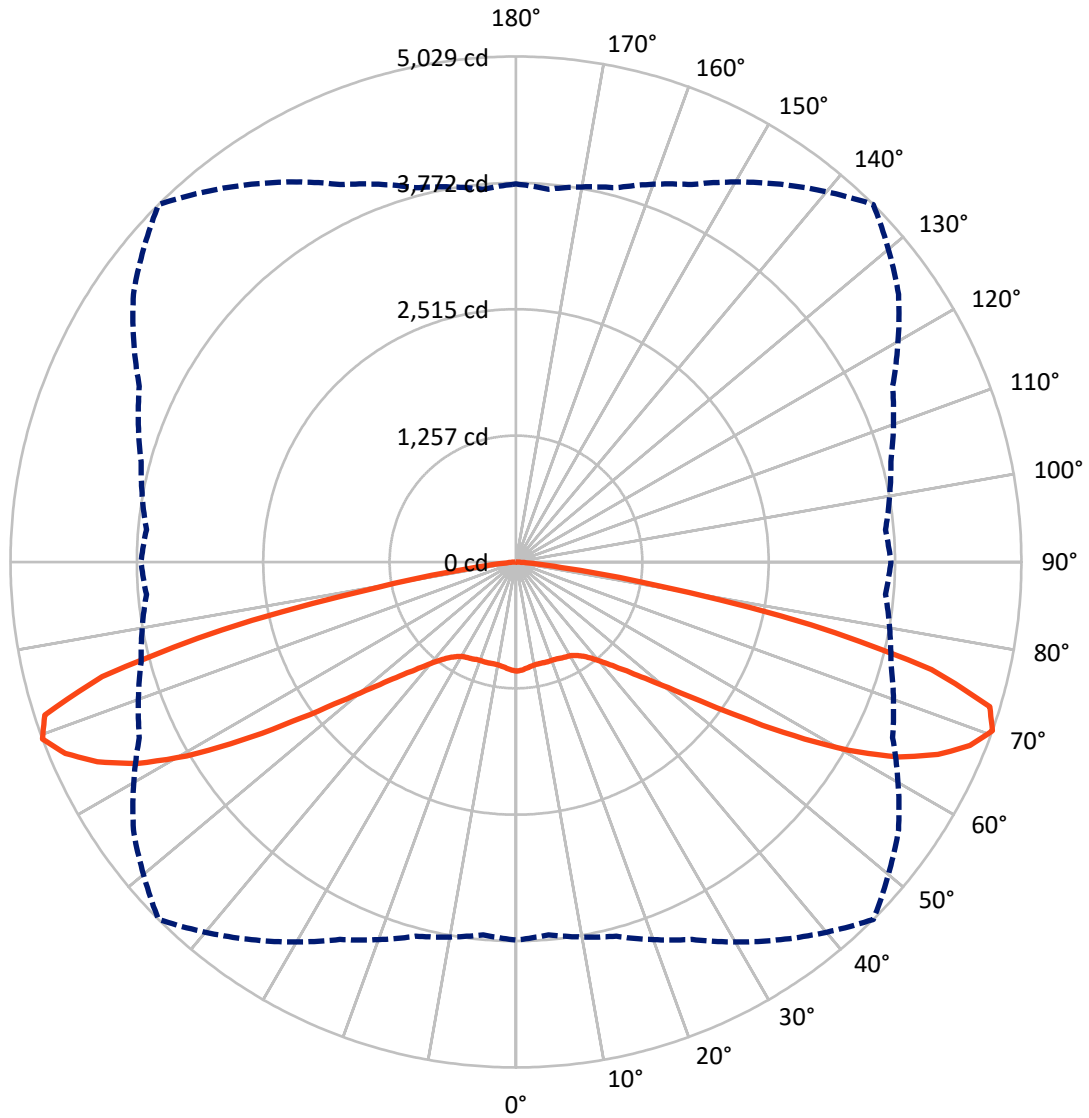
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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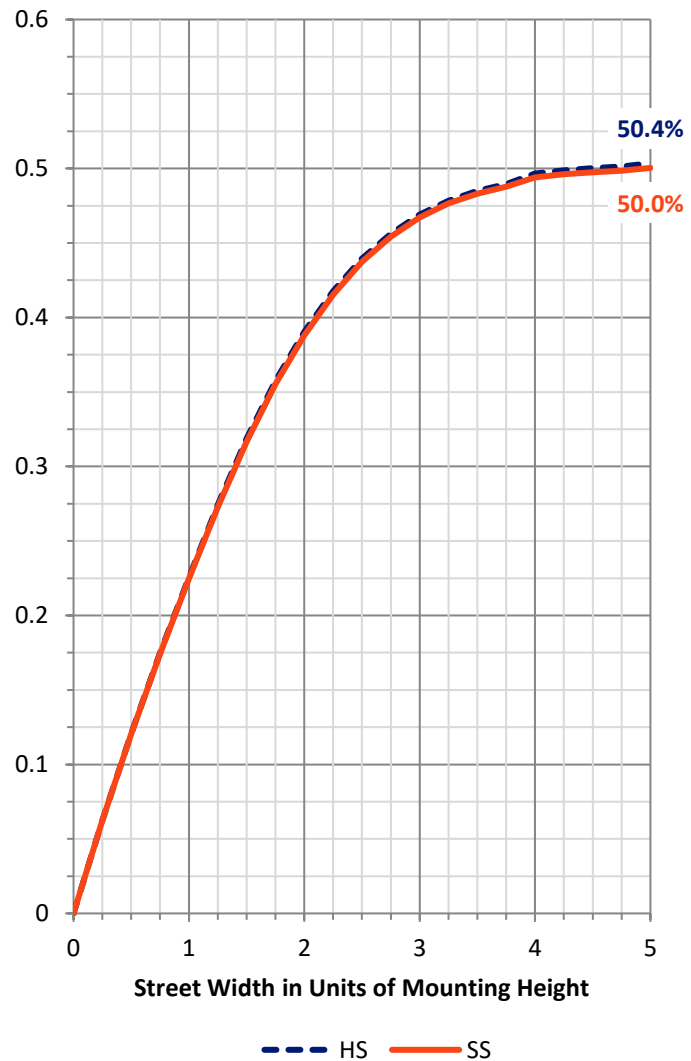
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5954.5   | 0.0    | 5954.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5954.5   | 0.0    | 5954.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11909.0  | 0.0    | 11909.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 101.1   | 0.8       |
| 10°-20°   | 296.7   | 2.5       |
| 20°-30°   | 493.8   | 4.1       |
| 30°-40°   | 746.8   | 6.3       |
| 40°-50°   | 1240.9  | 10.4      |
| 50°-60°   | 2341.6  | 19.7      |
| 60°-70°   | 3953.9  | 33.2      |
| 70°-80°   | 2598.1  | 21.8      |
| 80°-90°   | 136.1   | 1.1       |
| 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°    | 11909.0 | 100.0     |
| 0°-180°   | 11909.0 | 100.0     |

**Coefficient of Utilization**



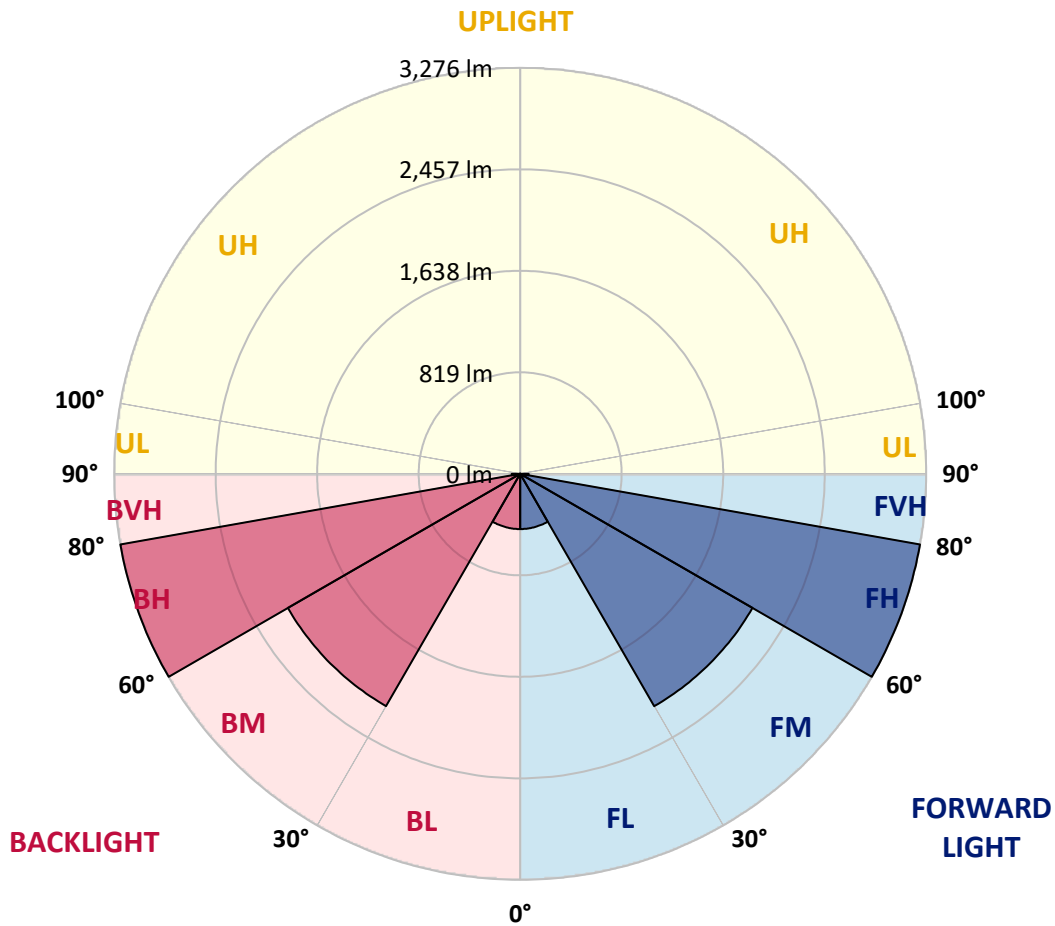
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 445.8  | 3.7       |                         |      |         |
| FM (30°-60°)   | 2164.6 | 18.2      |                         |      |         |
| FH (60°-80°)   | 3276.0 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 68.1   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 445.8  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 2164.6 | 18.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 3276.0 | 27.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 68.1   | 0.6       |                         |      | G1/100  |
| 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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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 |
| 2.5°  | 1079.5 | 1082.6 | 1081.4 | 1078.9 | 1078.9 | 1077.1 | 1078.9 | 1080.2 | 1082.0 | 1083.2 | 1082.6 |
| 5°    | 1065.3 | 1067.8 | 1067.2 | 1065.3 | 1065.9 | 1064.1 | 1065.3 | 1067.2 | 1068.4 | 1069.0 | 1069.0 |
| 7.5°  | 1052.9 | 1055.4 | 1054.2 | 1051.1 | 1051.1 | 1049.2 | 1049.8 | 1051.7 | 1053.5 | 1054.2 | 1054.2 |
| 10°   | 1049.8 | 1052.3 | 1048.6 | 1043.6 | 1041.8 | 1039.3 | 1039.9 | 1041.8 | 1045.5 | 1047.3 | 1047.3 |
| 12.5° | 1051.1 | 1052.9 | 1049.2 | 1041.8 | 1039.9 | 1037.4 | 1037.4 | 1039.3 | 1044.2 | 1046.7 | 1047.3 |
| 15°   | 1054.8 | 1056.6 | 1051.1 | 1043.0 | 1041.2 | 1039.3 | 1038.7 | 1041.2 | 1046.7 | 1051.1 | 1051.7 |
| 17.5° | 1061.6 | 1063.4 | 1054.8 | 1043.6 | 1041.2 | 1041.8 | 1041.2 | 1043.0 | 1051.7 | 1059.7 | 1059.7 |
| 20°   | 1067.8 | 1069.0 | 1057.2 | 1043.6 | 1041.2 | 1041.8 | 1041.2 | 1044.9 | 1056.0 | 1067.2 | 1067.8 |
| 22.5° | 1069.6 | 1070.9 | 1059.7 | 1048.0 | 1046.1 | 1046.7 | 1046.1 | 1049.8 | 1060.3 | 1071.5 | 1071.5 |
| 25°   | 1070.2 | 1072.1 | 1063.4 | 1054.2 | 1057.2 | 1058.5 | 1057.2 | 1057.9 | 1065.9 | 1075.8 | 1075.2 |
| 27.5° | 1079.5 | 1082.0 | 1074.0 | 1065.9 | 1067.8 | 1067.2 | 1069.0 | 1070.9 | 1077.1 | 1087.0 | 1084.5 |
| 30°   | 1098.7 | 1100.6 | 1093.8 | 1085.7 | 1084.5 | 1080.2 | 1085.7 | 1091.9 | 1098.7 | 1107.4 | 1105.5 |
| 32.5° | 1130.3 | 1134.0 | 1125.3 | 1116.7 | 1111.1 | 1108.6 | 1113.0 | 1123.5 | 1132.8 | 1142.1 | 1138.3 |
| 35°   | 1182.9 | 1185.4 | 1177.3 | 1161.2 | 1151.3 | 1151.3 | 1155.0 | 1168.7 | 1183.5 | 1195.3 | 1191.0 |
| 37.5° | 1257.2 | 1260.3 | 1246.0 | 1226.9 | 1212.0 | 1212.0 | 1216.9 | 1231.2 | 1253.5 | 1270.2 | 1264.0 |
| 40°   | 1347.6 | 1351.9 | 1333.9 | 1314.1 | 1299.9 | 1297.4 | 1303.6 | 1319.7 | 1340.7 | 1361.8 | 1355.0 |
| 42.5° | 1456.5 | 1461.5 | 1437.9 | 1420.6 | 1409.5 | 1409.5 | 1412.6 | 1427.4 | 1446.6 | 1472.6 | 1470.7 |
| 45°   | 1595.8 | 1604.4 | 1572.3 | 1554.9 | 1544.4 | 1546.9 | 1548.7 | 1561.7 | 1579.1 | 1608.8 | 1607.5 |
| 47.5° | 1761.7 | 1770.3 | 1736.3 | 1718.3 | 1716.5 | 1728.2 | 1720.8 | 1730.1 | 1739.4 | 1773.4 | 1763.5 |
| 50°   | 1949.8 | 1964.7 | 1941.2 | 1939.9 | 1943.7 | 1965.3 | 1948.0 | 1952.9 | 1942.4 | 1964.1 | 1951.1 |
| 52.5° | 2180.1 | 2201.8 | 2197.4 | 2204.9 | 2246.3 | 2290.9 | 2251.3 | 2234.0 | 2194.3 | 2201.2 | 2178.3 |
| 55°   | 2459.3 | 2492.1 | 2498.3 | 2542.8 | 2636.9 | 2727.9 | 2643.7 | 2573.8 | 2489.6 | 2474.1 | 2450.0 |
| 57.5° | 2776.8 | 2802.8 | 2832.5 | 2923.5 | 3099.3 | 3260.9 | 3099.3 | 2944.6 | 2812.1 | 2780.5 | 2758.3 |
| 60°   | 3118.5 | 3150.7 | 3179.2 | 3313.5 | 3574.7 | 3801.9 | 3569.8 | 3324.0 | 3148.8 | 3106.1 | 3069.0 |
| 62.5° | 3485.6 | 3527.0 | 3546.9 | 3696.0 | 4000.6 | 4271.7 | 4004.9 | 3707.2 | 3512.8 | 3467.0 | 3429.9 |
| 65°   | 3837.8 | 3871.8 | 3894.1 | 4053.2 | 4344.1 | 4615.9 | 4363.9 | 4070.5 | 3870.6 | 3810.5 | 3780.8 |
| 67.5° | 4001.8 | 4020.4 | 4074.9 | 4255.0 | 4562.0 | 4872.1 | 4614.0 | 4274.2 | 4050.7 | 3945.5 | 3946.7 |
| 70°   | 3761.6 | 3723.9 | 3855.1 | 4143.6 | 4588.0 | 5029.4 | 4647.4 | 4134.9 | 3861.3 | 3690.5 | 3731.3 |
| 72.5° | 2906.8 | 2841.8 | 3069.6 | 3562.9 | 4290.9 | 4929.1 | 4320.6 | 3590.8 | 3211.4 | 2864.7 | 2950.8 |
| 75°   | 1581.5 | 1507.9 | 1822.3 | 2446.3 | 3421.8 | 4272.3 | 3500.4 | 2516.2 | 2029.1 | 1569.8 | 1671.9 |
| 77.5° | 446.3  | 418.4  | 672.2  | 1183.5 | 2058.2 | 2999.7 | 2137.4 | 1209.5 | 797.3  | 472.9  | 525.5  |
| 80°   | 136.8  | 132.5  | 179.5  | 356.5  | 874.0  | 1436.7 | 840.0  | 360.9  | 228.4  | 144.2  | 152.3  |
| 82.5° | 81.1   | 74.3   | 89.1   | 130.0  | 222.8  | 451.2  | 216.6  | 135.6  | 108.9  | 73.0   | 79.2   |
| 85°   | 46.4   | 43.3   | 52.6   | 63.1   | 74.9   | 95.9   | 62.5   | 64.4   | 58.2   | 39.0   | 40.9   |
| 87.5° | 19.2   | 17.3   | 20.4   | 19.8   | 17.3   | 22.3   | 16.7   | 19.8   | 23.5   | 15.5   | 14.2   |
| 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)