

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: LUMARK

Report Number: P961483

Luminaire Tested: **NAV-SB2A-760-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-760-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9840 lumens  
Efficiency: N/A  
Efficacy: 171.7 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): 57.3  
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



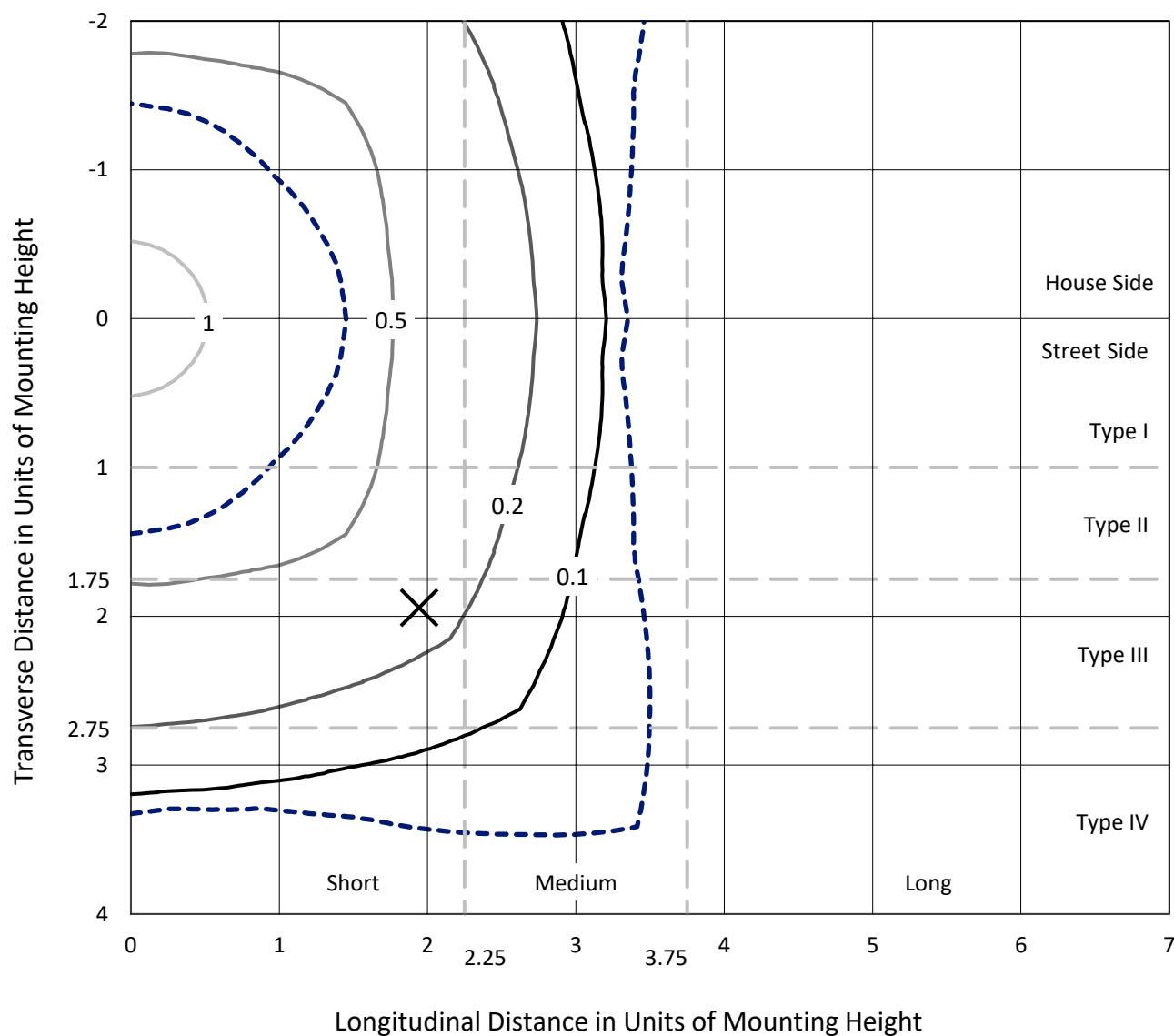
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

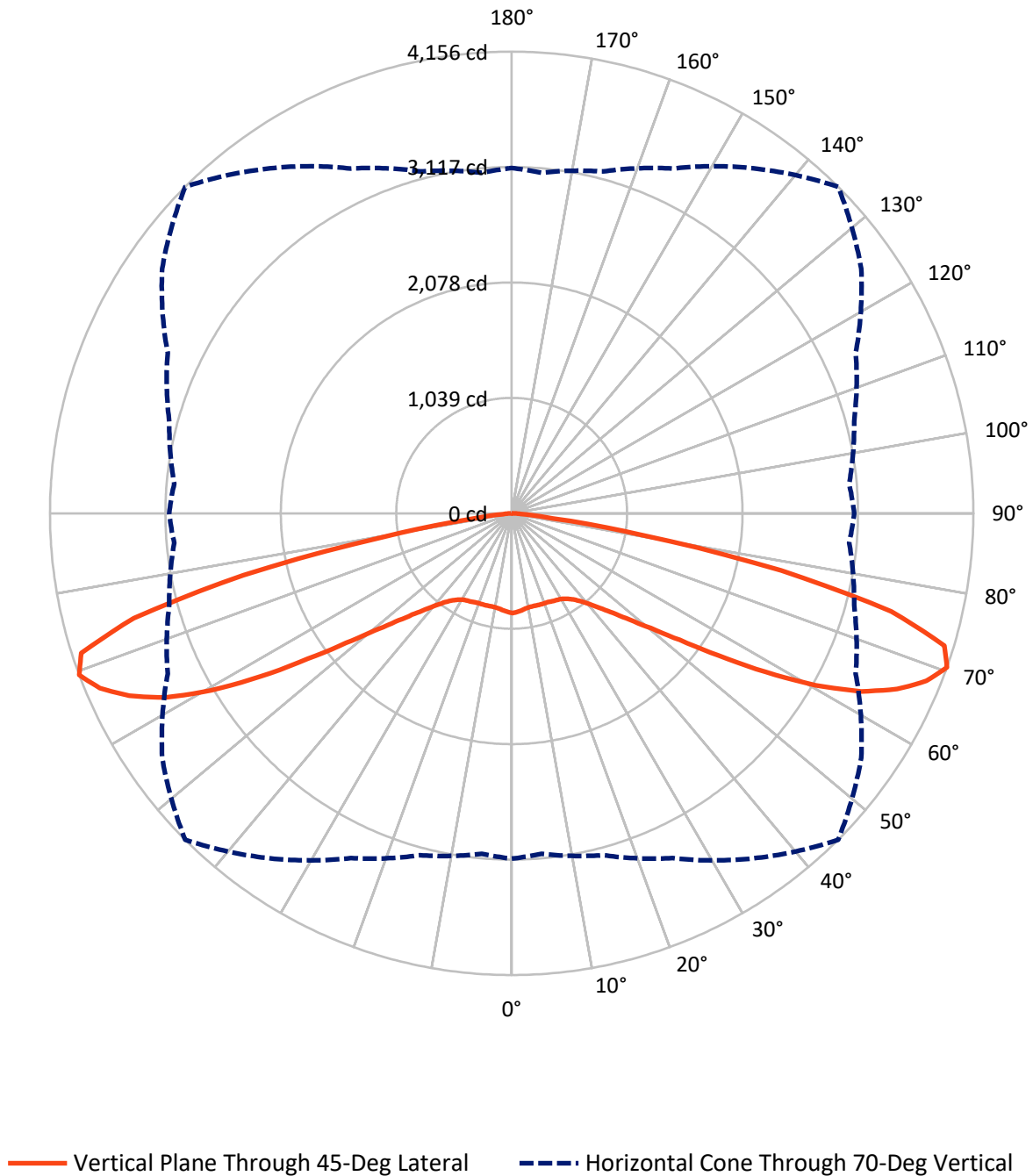


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc

Type V - Short - N/A

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CATALOG NUMBER: NAV-SB2A-760-U-5WQ

## Luminous Intensity Polar Plot



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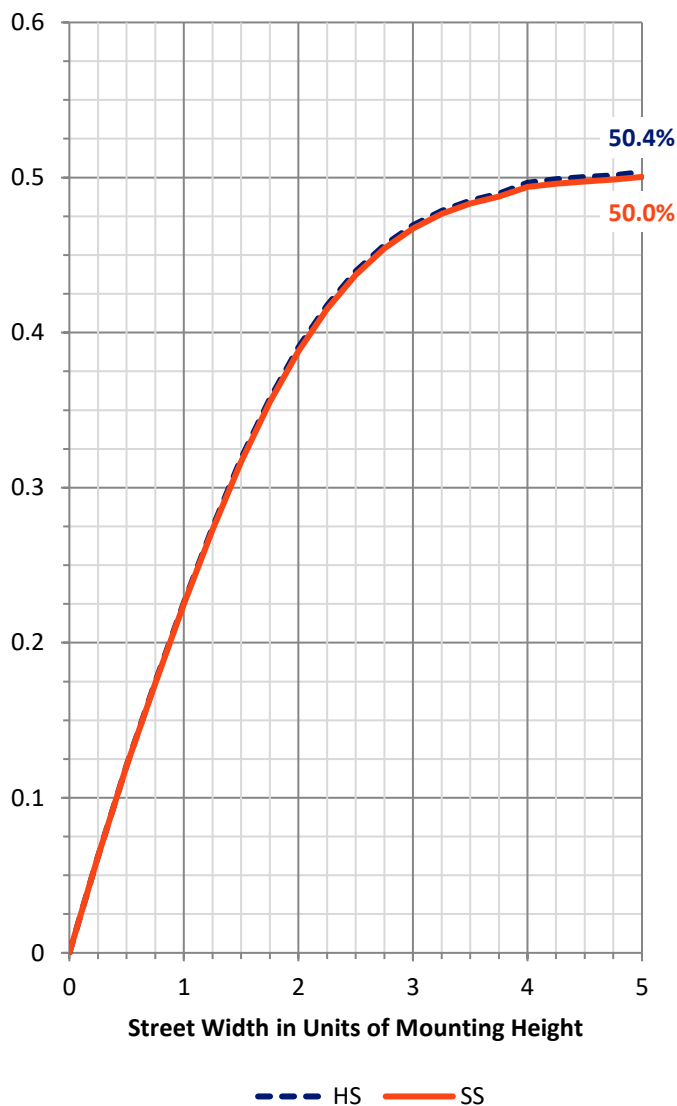
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4920.0   | 0.0    | 4920.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4920.0   | 0.0    | 4920.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9840.0   | 0.0    | 9840.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.5   | 0.8       |
| 10°-20°   | 245.2  | 2.5       |
| 20°-30°   | 408.0  | 4.1       |
| 30°-40°   | 617.0  | 6.3       |
| 40°-50°   | 1025.4 | 10.4      |
| 50°-60°   | 1934.8 | 19.7      |
| 60°-70°   | 3267.0 | 33.2      |
| 70°-80°   | 2146.7 | 21.8      |
| 80°-90°   | 112.5  | 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°    | 9840.0 | 100.0     |
| 0°-180°   | 9840.0 | 100.0     |

**Coefficient of Utilization**



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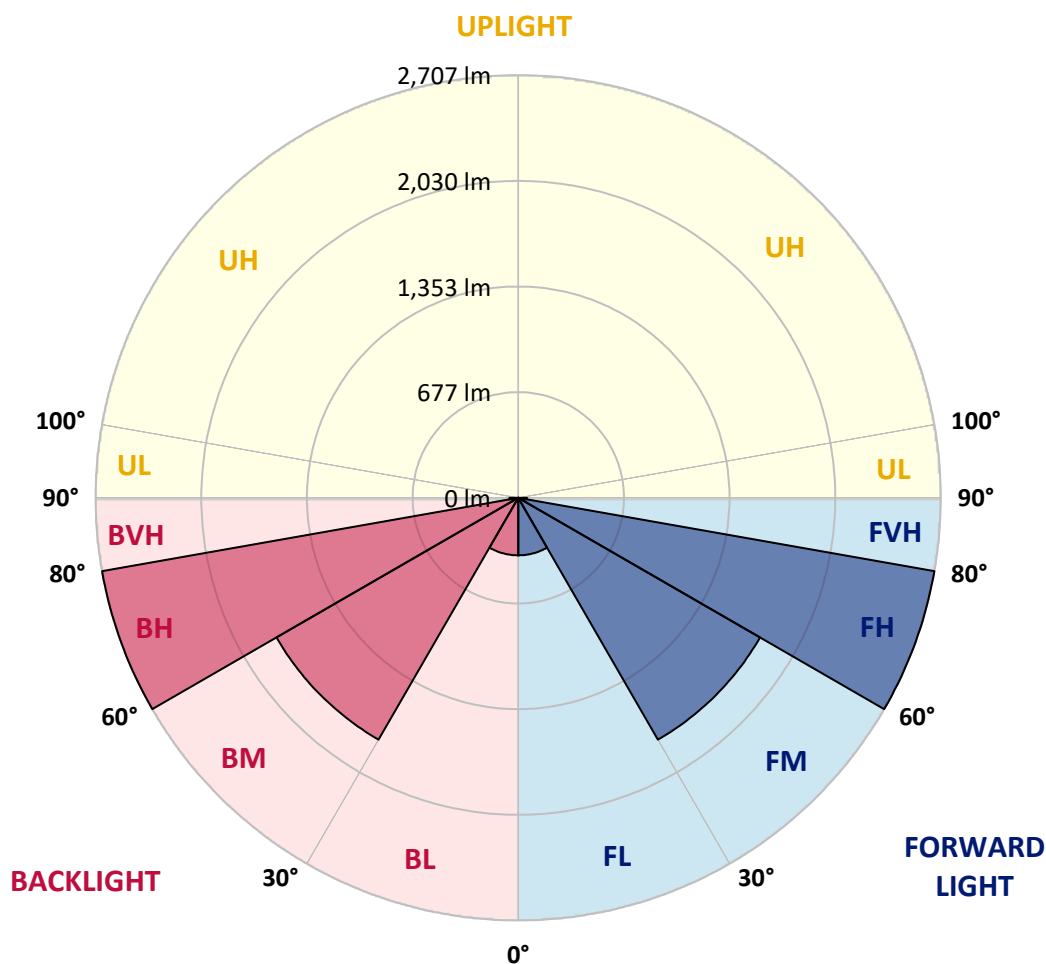
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 368.3  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 1788.6 | 18.2      |                         |      |         |
| FH   | (60°-80°)   | 2706.9 | 27.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 56.2   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 368.3  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1788.6 | 18.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2706.9 | 27.5      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 56.2   | 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°    | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  |
| 2.5°  | 892.0  | 894.5  | 893.5  | 891.4  | 891.4  | 889.9  | 891.4  | 892.5  | 894.0  | 895.0  | 894.5  |
| 5°    | 880.2  | 882.2  | 881.7  | 880.2  | 880.7  | 879.1  | 880.2  | 881.7  | 882.7  | 883.2  | 883.2  |
| 7.5°  | 870.0  | 872.1  | 871.0  | 868.5  | 868.5  | 866.9  | 867.5  | 869.0  | 870.5  | 871.0  | 871.0  |
| 10°   | 867.5  | 869.5  | 866.4  | 862.3  | 860.8  | 858.7  | 859.3  | 860.8  | 863.9  | 865.4  | 865.4  |
| 12.5° | 868.5  | 870.0  | 866.9  | 860.8  | 859.3  | 857.2  | 857.2  | 858.7  | 862.8  | 864.9  | 865.4  |
| 15°   | 871.6  | 873.1  | 868.5  | 861.8  | 860.3  | 858.7  | 858.2  | 860.3  | 864.9  | 868.5  | 869.0  |
| 17.5° | 877.2  | 878.7  | 871.6  | 862.3  | 860.3  | 860.8  | 860.3  | 861.8  | 869.0  | 875.7  | 875.7  |
| 20°   | 882.2  | 883.2  | 873.6  | 862.3  | 860.3  | 860.8  | 860.3  | 863.4  | 872.6  | 881.7  | 882.2  |
| 22.5° | 883.8  | 884.8  | 875.7  | 865.9  | 864.4  | 864.9  | 864.4  | 867.5  | 876.2  | 885.3  | 885.3  |
| 25°   | 884.3  | 885.8  | 878.7  | 871.0  | 873.6  | 874.6  | 873.6  | 874.1  | 880.7  | 888.9  | 888.4  |
| 27.5° | 892.0  | 894.0  | 887.3  | 880.7  | 882.2  | 881.7  | 883.2  | 884.8  | 889.9  | 898.1  | 896.1  |
| 30°   | 907.8  | 909.4  | 903.7  | 897.1  | 896.1  | 892.5  | 897.1  | 902.2  | 907.8  | 915.0  | 913.5  |
| 32.5° | 933.9  | 937.0  | 929.8  | 922.7  | 918.1  | 916.0  | 919.6  | 928.3  | 935.9  | 943.6  | 940.5  |
| 35°   | 977.4  | 979.5  | 972.8  | 959.5  | 951.3  | 951.3  | 954.4  | 965.7  | 978.0  | 987.6  | 984.0  |
| 37.5° | 1038.7 | 1041.3 | 1029.6 | 1013.7 | 1001.4 | 1001.4 | 1005.5 | 1017.3 | 1035.7 | 1049.5 | 1044.4 |
| 40°   | 1113.5 | 1117.0 | 1102.2 | 1085.8 | 1074.1 | 1072.0 | 1077.2 | 1090.4 | 1107.8 | 1125.2 | 1119.6 |
| 42.5° | 1203.5 | 1207.6 | 1188.1 | 1173.8 | 1164.6 | 1164.6 | 1167.2 | 1179.5 | 1195.3 | 1216.8 | 1215.2 |
| 45°   | 1318.6 | 1325.7 | 1299.1 | 1284.7 | 1276.1 | 1278.2 | 1279.7 | 1290.4 | 1304.7 | 1329.3 | 1328.3 |
| 47.5° | 1455.6 | 1462.8 | 1434.6 | 1419.8 | 1418.3 | 1428.0 | 1421.9 | 1429.6 | 1437.2 | 1465.3 | 1457.1 |
| 50°   | 1611.1 | 1623.4 | 1603.9 | 1602.9 | 1606.0 | 1623.9 | 1609.6 | 1613.7 | 1604.9 | 1622.9 | 1612.1 |
| 52.5° | 1801.3 | 1819.3 | 1815.7 | 1821.8 | 1856.1 | 1892.9 | 1860.2 | 1845.8 | 1813.1 | 1818.8 | 1799.8 |
| 55°   | 2032.1 | 2059.1 | 2064.2 | 2101.0 | 2178.8 | 2254.0 | 2184.5 | 2126.7 | 2057.1 | 2044.3 | 2024.4 |
| 57.5° | 2294.4 | 2315.9 | 2340.4 | 2415.6 | 2560.9 | 2694.3 | 2560.9 | 2433.0 | 2323.6 | 2297.4 | 2279.1 |
| 60°   | 2576.7 | 2603.3 | 2626.9 | 2737.9 | 2953.6 | 3141.3 | 2949.5 | 2746.5 | 2601.8 | 2566.5 | 2535.8 |
| 62.5° | 2880.0 | 2914.3 | 2930.7 | 3053.9 | 3305.5 | 3529.6 | 3309.1 | 3063.1 | 2902.5 | 2864.7 | 2834.0 |
| 65°   | 3171.0 | 3199.1 | 3217.6 | 3349.0 | 3589.4 | 3813.9 | 3605.7 | 3363.3 | 3198.1 | 3148.5 | 3124.0 |
| 67.5° | 3306.5 | 3321.9 | 3366.9 | 3515.7 | 3769.4 | 4025.7 | 3812.4 | 3531.6 | 3346.9 | 3260.0 | 3261.0 |
| 70°   | 3108.1 | 3076.9 | 3185.4 | 3423.7 | 3791.0 | 4155.6 | 3840.1 | 3416.5 | 3190.4 | 3049.3 | 3083.1 |
| 72.5° | 2401.8 | 2348.1 | 2536.4 | 2943.9 | 3545.4 | 4072.7 | 3570.0 | 2967.0 | 2653.4 | 2367.0 | 2438.1 |
| 75°   | 1306.8 | 1245.9 | 1505.7 | 2021.3 | 2827.4 | 3530.1 | 2892.2 | 2079.1 | 1676.6 | 1297.0 | 1381.5 |
| 77.5° | 368.8  | 345.7  | 555.4  | 978.0  | 1700.6 | 2478.6 | 1766.1 | 999.4  | 658.8  | 390.7  | 434.2  |
| 80°   | 113.1  | 109.5  | 148.3  | 294.6  | 722.2  | 1187.1 | 694.0  | 298.2  | 188.7  | 119.2  | 125.8  |
| 82.5° | 67.0   | 61.4   | 73.7   | 107.4  | 184.1  | 372.9  | 179.0  | 112.0  | 90.0   | 60.4   | 65.5   |
| 85°   | 38.3   | 35.8   | 43.5   | 52.2   | 61.9   | 79.2   | 51.7   | 53.2   | 48.1   | 32.2   | 33.7   |
| 87.5° | 15.9   | 14.3   | 16.9   | 16.4   | 14.3   | 18.4   | 13.8   | 16.4   | 19.5   | 12.8   | 11.8   |
| 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)