

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: P962010

Luminaire Tested: **NAV-SB2B-760-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P962010  
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-SB2B-760-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12352.2 lumens  
Efficiency: N/A  
Efficacy: 167.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

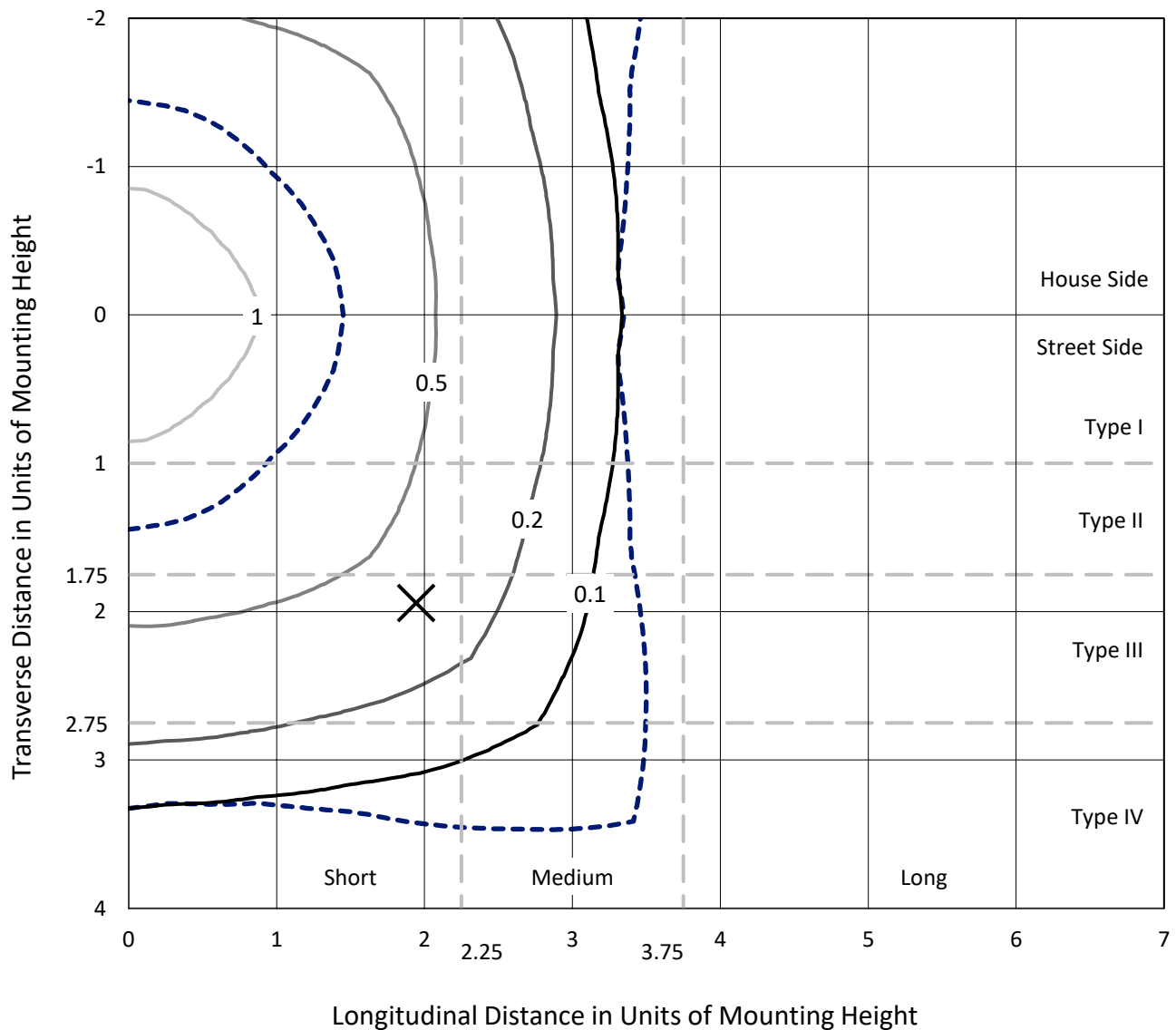
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P962010  
CATALOG NUMBER: NAV-SB2B-760-U-5WQ

## Iso-Footcandle Lines of Horizontal Illumination

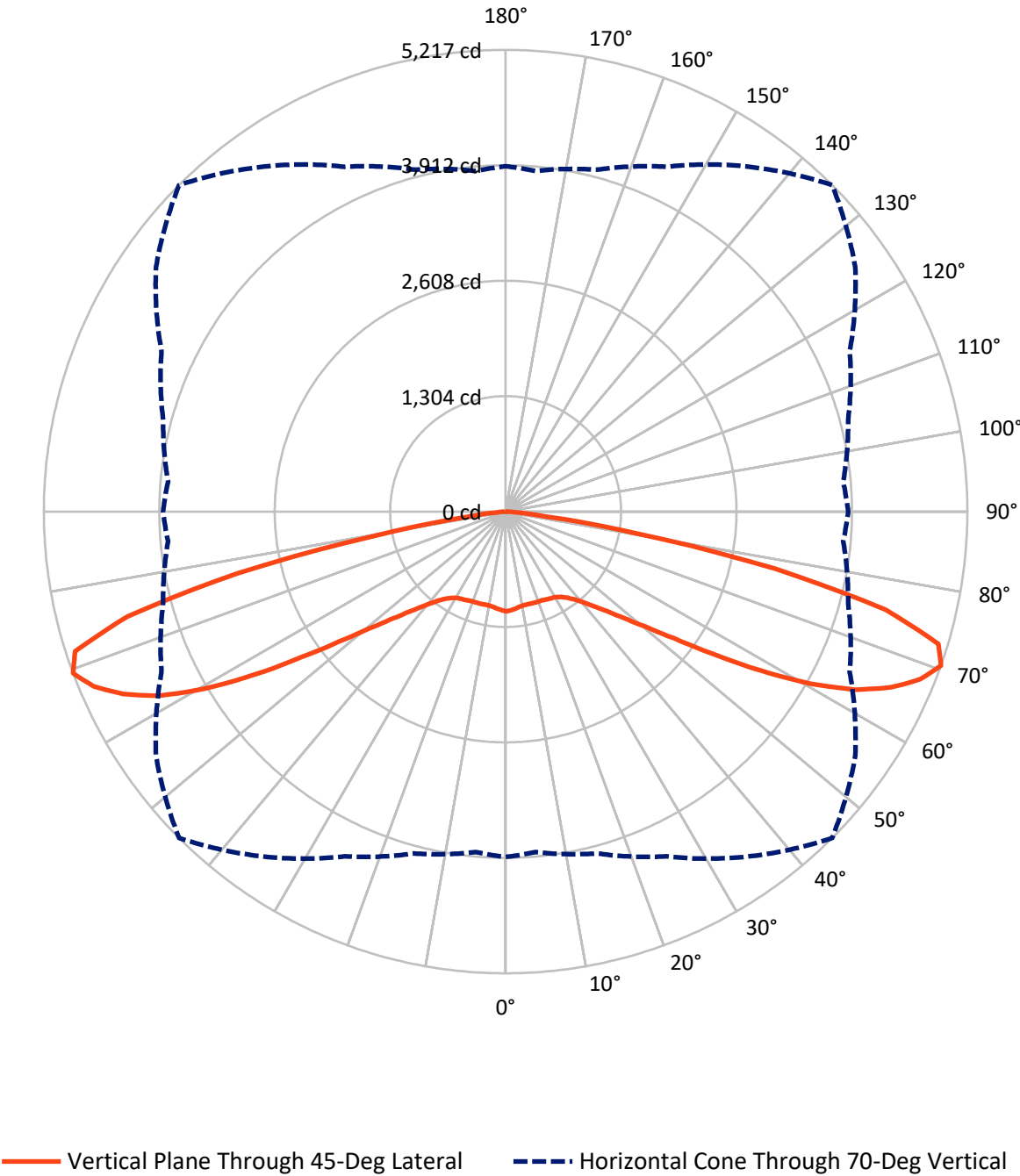
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
Type V - Short - N/A

REPORT NUMBER: P962010  
CATALOG NUMBER: NAV-SB2B-760-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P962010

CATALOG NUMBER: NAV-SB2B-760-U-5WQ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6176.1   | 0.0    | 6176.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6176.1   | 0.0    | 6176.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12352.2  | 0.0    | 12352.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 104.8   | 0.8       |
| 10°-20°   | 307.8   | 2.5       |
| 20°-30°   | 512.2   | 4.1       |
| 30°-40°   | 774.6   | 6.3       |
| 40°-50°   | 1287.1  | 10.4      |
| 50°-60°   | 2428.8  | 19.7      |
| 60°-70°   | 4101.1  | 33.2      |
| 70°-80°   | 2694.8  | 21.8      |
| 80°-90°   | 141.2   | 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°    | 12352.2 | 100.0     |
| 0°-180°   | 12352.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P962010

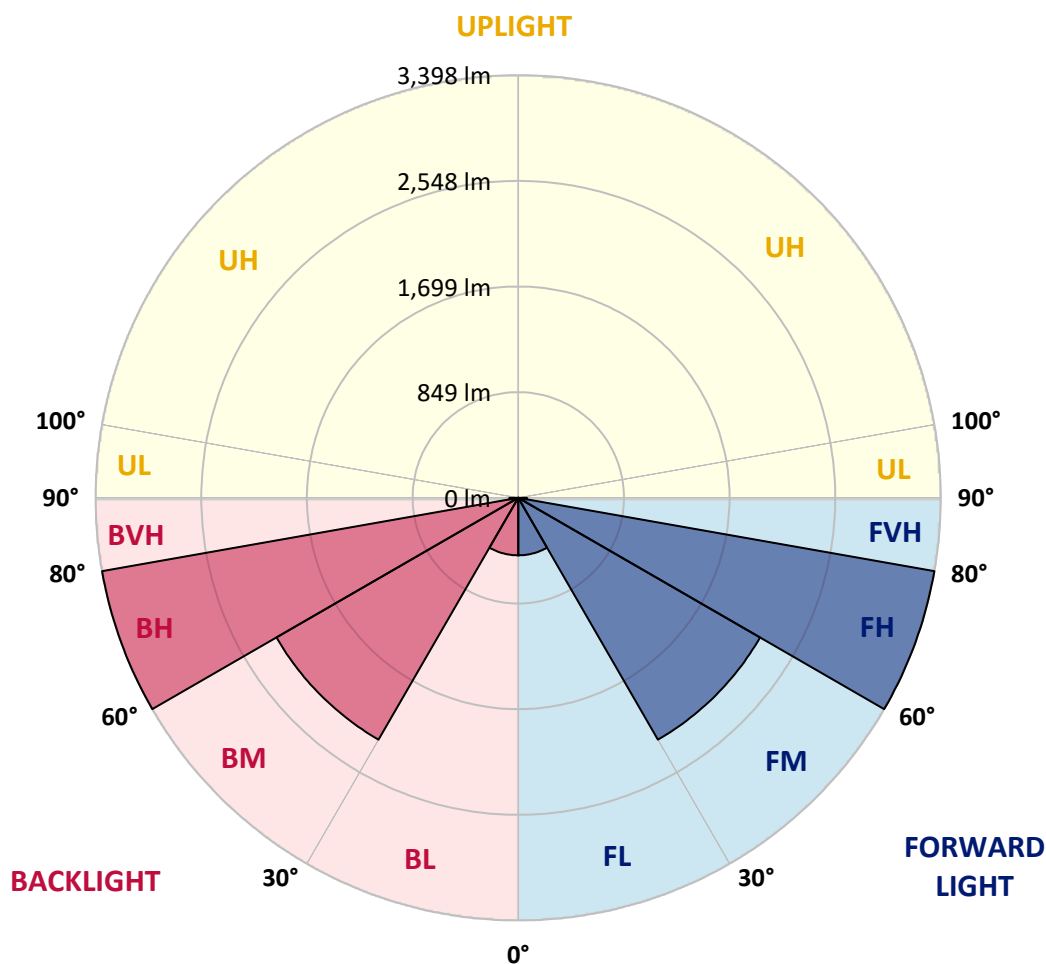
CATALOG NUMBER: NAV-SB2B-760-U-5WQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 462.4  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 2245.2 | 18.2      |                         |      |         |
| FH   | (60°-80°)   | 3397.9 | 27.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 70.6   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 462.4  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2245.2 | 18.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3397.9 | 27.5      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 70.6   | 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



REPORT NUMBER: P962010

CATALOG NUMBER: NAV-SB2B-760-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1126.8 | 1126.8 | 1126.8 | 1126.8 | 1126.8 | 1126.8 | 1126.8 | 1126.8 | 1126.8 | 1126.8 | 1126.8 |
| 2.5°  | 1119.7 | 1122.9 | 1121.7 | 1119.1 | 1119.1 | 1117.1 | 1119.1 | 1120.3 | 1122.3 | 1123.6 | 1122.9 |
| 5°    | 1104.9 | 1107.5 | 1106.9 | 1104.9 | 1105.6 | 1103.6 | 1104.9 | 1106.9 | 1108.1 | 1108.8 | 1108.8 |
| 7.5°  | 1092.1 | 1094.7 | 1093.4 | 1090.2 | 1090.2 | 1088.2 | 1088.9 | 1090.8 | 1092.8 | 1093.4 | 1093.4 |
| 10°   | 1088.9 | 1091.4 | 1087.6 | 1082.5 | 1080.6 | 1078.0 | 1078.6 | 1080.6 | 1084.4 | 1086.3 | 1086.3 |
| 12.5° | 1090.2 | 1092.1 | 1088.2 | 1080.6 | 1078.6 | 1076.0 | 1076.0 | 1078.0 | 1083.1 | 1085.7 | 1086.3 |
| 15°   | 1094.0 | 1095.9 | 1090.2 | 1081.8 | 1079.9 | 1078.0 | 1077.4 | 1079.9 | 1085.7 | 1090.2 | 1090.8 |
| 17.5° | 1101.1 | 1103.0 | 1094.0 | 1082.5 | 1079.9 | 1080.6 | 1079.9 | 1081.8 | 1090.8 | 1099.2 | 1099.2 |
| 20°   | 1107.5 | 1108.8 | 1096.6 | 1082.5 | 1079.9 | 1080.6 | 1079.9 | 1083.7 | 1095.3 | 1106.9 | 1107.5 |
| 22.5° | 1109.5 | 1110.7 | 1099.2 | 1087.0 | 1085.1 | 1085.7 | 1085.1 | 1088.9 | 1099.8 | 1111.4 | 1111.4 |
| 25°   | 1110.1 | 1112.0 | 1103.0 | 1093.4 | 1096.6 | 1097.9 | 1096.6 | 1097.3 | 1105.6 | 1115.8 | 1115.2 |
| 27.5° | 1119.7 | 1122.3 | 1114.0 | 1105.6 | 1107.5 | 1106.9 | 1108.8 | 1110.7 | 1117.1 | 1127.4 | 1124.8 |
| 30°   | 1139.6 | 1141.5 | 1134.5 | 1126.2 | 1124.8 | 1120.3 | 1126.2 | 1132.5 | 1139.6 | 1148.6 | 1146.7 |
| 32.5° | 1172.4 | 1176.2 | 1167.3 | 1158.2 | 1152.4 | 1149.8 | 1154.4 | 1165.3 | 1175.0 | 1184.6 | 1180.7 |
| 35°   | 1226.9 | 1229.5 | 1221.2 | 1204.5 | 1194.2 | 1194.2 | 1198.0 | 1212.2 | 1227.5 | 1239.7 | 1235.3 |
| 37.5° | 1304.0 | 1307.2 | 1292.4 | 1272.5 | 1257.1 | 1257.1 | 1262.3 | 1277.0 | 1300.1 | 1317.4 | 1311.1 |
| 40°   | 1397.7 | 1402.2 | 1383.5 | 1363.0 | 1348.3 | 1345.7 | 1352.2 | 1368.8 | 1390.6 | 1412.4 | 1405.4 |
| 42.5° | 1510.7 | 1515.9 | 1491.5 | 1473.4 | 1462.0 | 1462.0 | 1465.1 | 1480.5 | 1500.4 | 1527.5 | 1525.5 |
| 45°   | 1655.2 | 1664.2 | 1630.8 | 1612.8 | 1601.9 | 1604.4 | 1606.4 | 1619.9 | 1637.8 | 1668.7 | 1667.4 |
| 47.5° | 1827.3 | 1836.2 | 1800.9 | 1782.3 | 1780.3 | 1792.5 | 1784.8 | 1794.5 | 1804.1 | 1839.5 | 1829.2 |
| 50°   | 2022.4 | 2037.8 | 2013.4 | 2012.2 | 2016.0 | 2038.5 | 2020.5 | 2025.6 | 2014.7 | 2037.2 | 2023.7 |
| 52.5° | 2261.3 | 2283.7 | 2279.2 | 2287.0 | 2329.9 | 2376.2 | 2335.1 | 2317.1 | 2276.0 | 2283.1 | 2259.3 |
| 55°   | 2550.8 | 2584.8 | 2591.3 | 2637.5 | 2735.1 | 2829.4 | 2742.2 | 2669.6 | 2582.3 | 2566.2 | 2541.2 |
| 57.5° | 2880.1 | 2907.1 | 2938.0 | 3032.4 | 3214.7 | 3382.3 | 3214.7 | 3054.2 | 2916.7 | 2884.0 | 2860.9 |
| 60°   | 3234.6 | 3268.0 | 3297.5 | 3436.8 | 3707.7 | 3943.4 | 3702.6 | 3447.8 | 3266.1 | 3221.8 | 3183.2 |
| 62.5° | 3615.3 | 3658.3 | 3678.8 | 3833.6 | 4149.5 | 4430.7 | 4154.0 | 3845.2 | 3643.6 | 3596.0 | 3557.6 |
| 65°   | 3980.6 | 4016.0 | 4039.0 | 4204.0 | 4505.8 | 4787.7 | 4526.4 | 4222.1 | 4014.6 | 3952.4 | 3921.5 |
| 67.5° | 4150.7 | 4170.0 | 4226.5 | 4413.3 | 4731.8 | 5053.5 | 4785.7 | 4433.2 | 4201.5 | 4092.3 | 4093.6 |
| 70°   | 3901.7 | 3862.5 | 3998.6 | 4297.8 | 4758.8 | 5216.5 | 4820.4 | 4288.8 | 4005.0 | 3827.9 | 3870.2 |
| 72.5° | 3015.0 | 2947.6 | 3183.9 | 3695.5 | 4450.7 | 5112.6 | 4481.4 | 3724.4 | 3330.9 | 2971.4 | 3060.5 |
| 75°   | 1640.4 | 1564.0 | 1890.2 | 2537.3 | 3549.2 | 4431.4 | 3630.8 | 2609.9 | 2104.6 | 1628.2 | 1734.1 |
| 77.5° | 462.9  | 434.0  | 697.2  | 1227.5 | 2134.8 | 3111.3 | 2217.0 | 1254.5 | 827.0  | 490.6  | 545.1  |
| 80°   | 141.9  | 137.4  | 186.1  | 369.8  | 906.5  | 1490.1 | 871.2  | 374.3  | 236.9  | 149.5  | 158.0  |
| 82.5° | 84.2   | 77.1   | 92.5   | 134.8  | 231.1  | 468.0  | 224.7  | 140.6  | 113.0  | 75.7   | 82.2   |
| 85°   | 48.2   | 44.9   | 54.5   | 65.5   | 77.7   | 99.5   | 64.9   | 66.7   | 60.4   | 40.5   | 42.3   |
| 87.5° | 19.9   | 17.9   | 21.2   | 20.5   | 17.9   | 23.1   | 17.3   | 20.5   | 24.4   | 16.1   | 14.8   |
| 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)