

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: P960536

Luminaire Tested: **NAV-SB1C-835-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

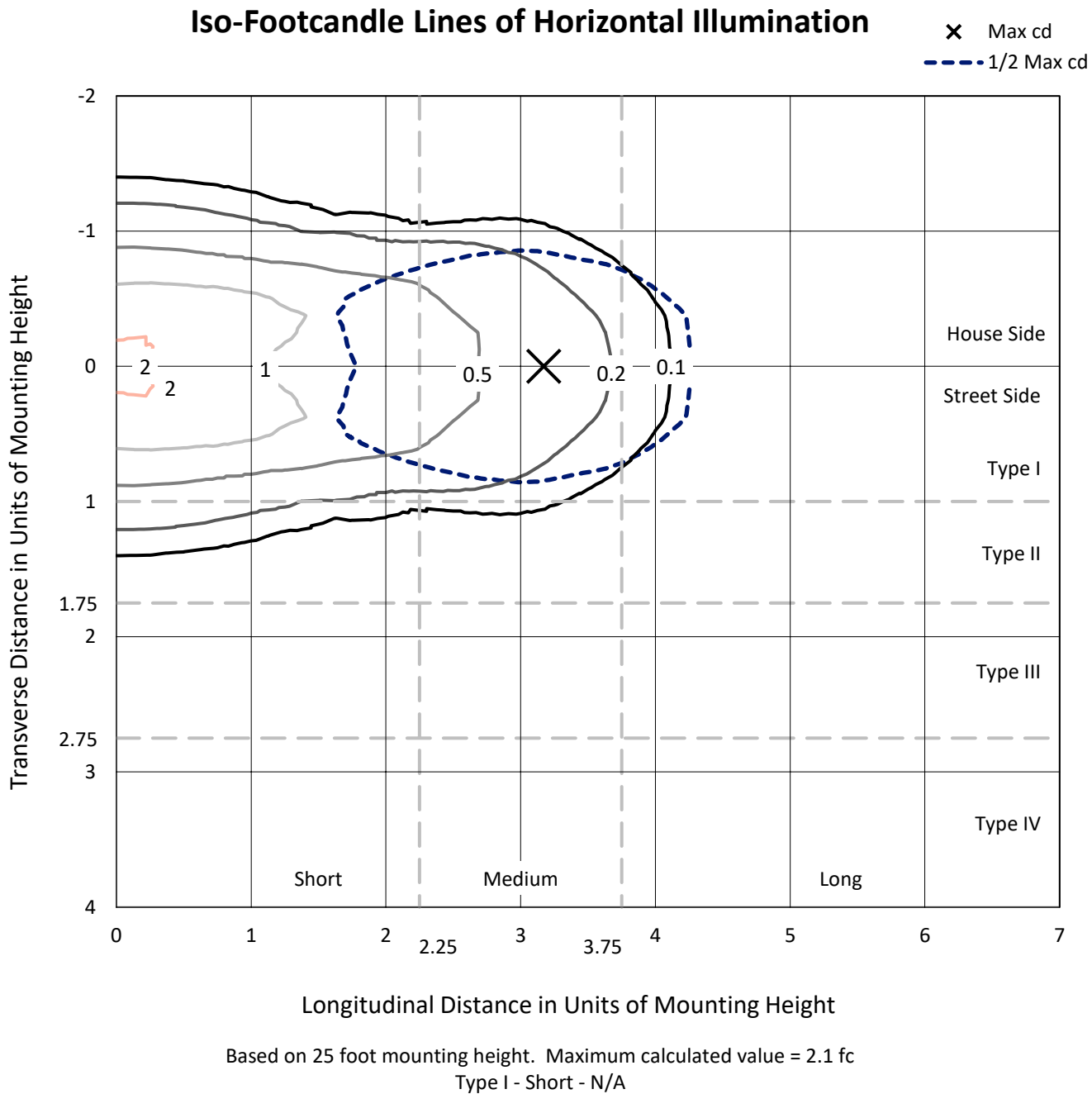
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7045.8 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 54.4  
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

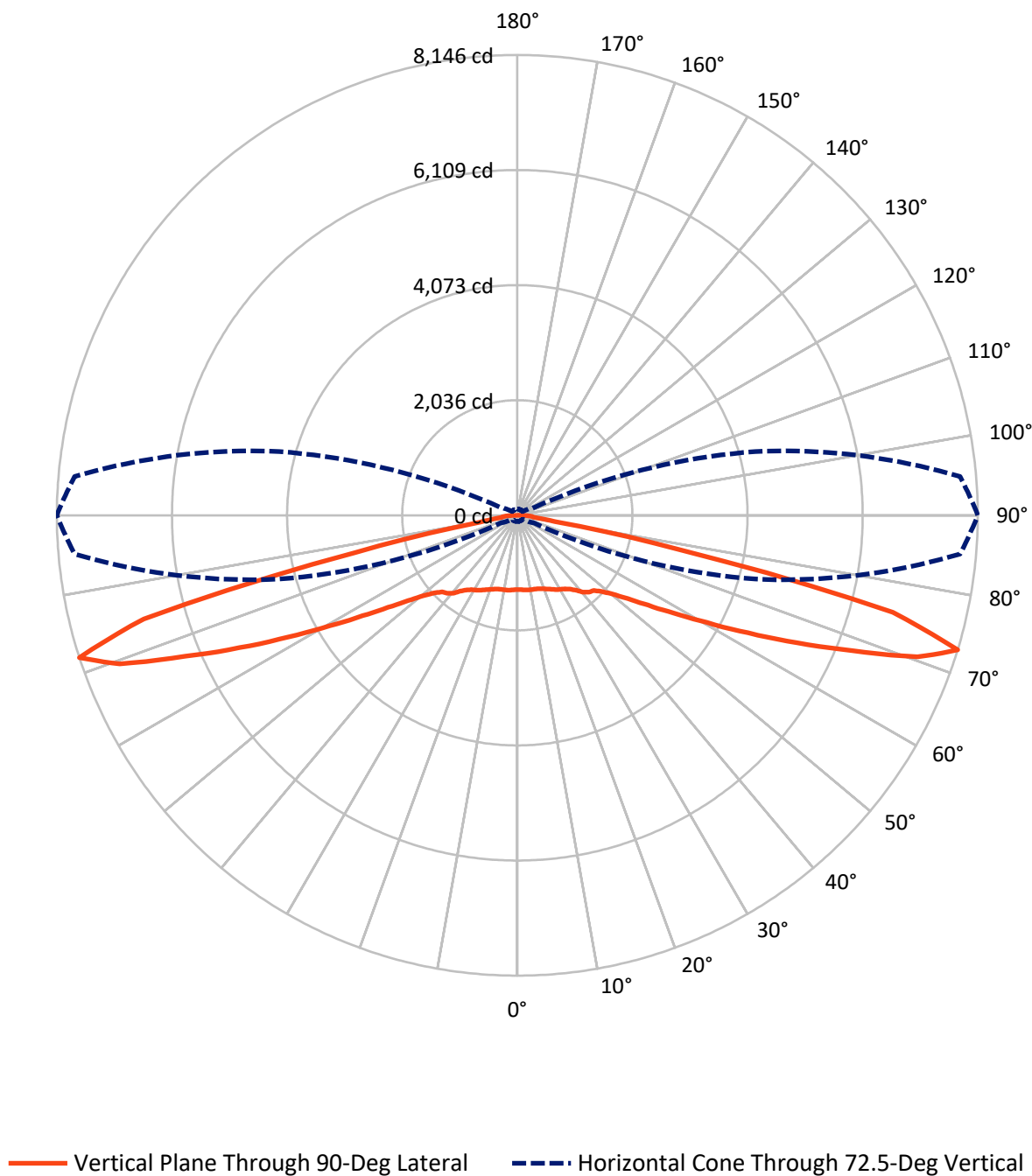


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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3522.9   | 0.0    | 3522.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3522.9   | 0.0    | 3522.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7045.8   | 0.0    | 7045.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.7  | 1.8       |
| 10°-20°   | 390.3  | 5.5       |
| 20°-30°   | 650.8  | 9.2       |
| 30°-40°   | 895.1  | 12.7      |
| 40°-50°   | 1093.2 | 15.5      |
| 50°-60°   | 1264.4 | 17.9      |
| 60°-70°   | 1507.6 | 21.4      |
| 70°-80°   | 1052.2 | 14.9      |
| 80°-90°   | 64.6   | 0.9       |
| 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°    | 7045.8 | 100.0     |
| 0°-180°   | 7045.8 | 100.0     |

**Coefficient of Utilization**



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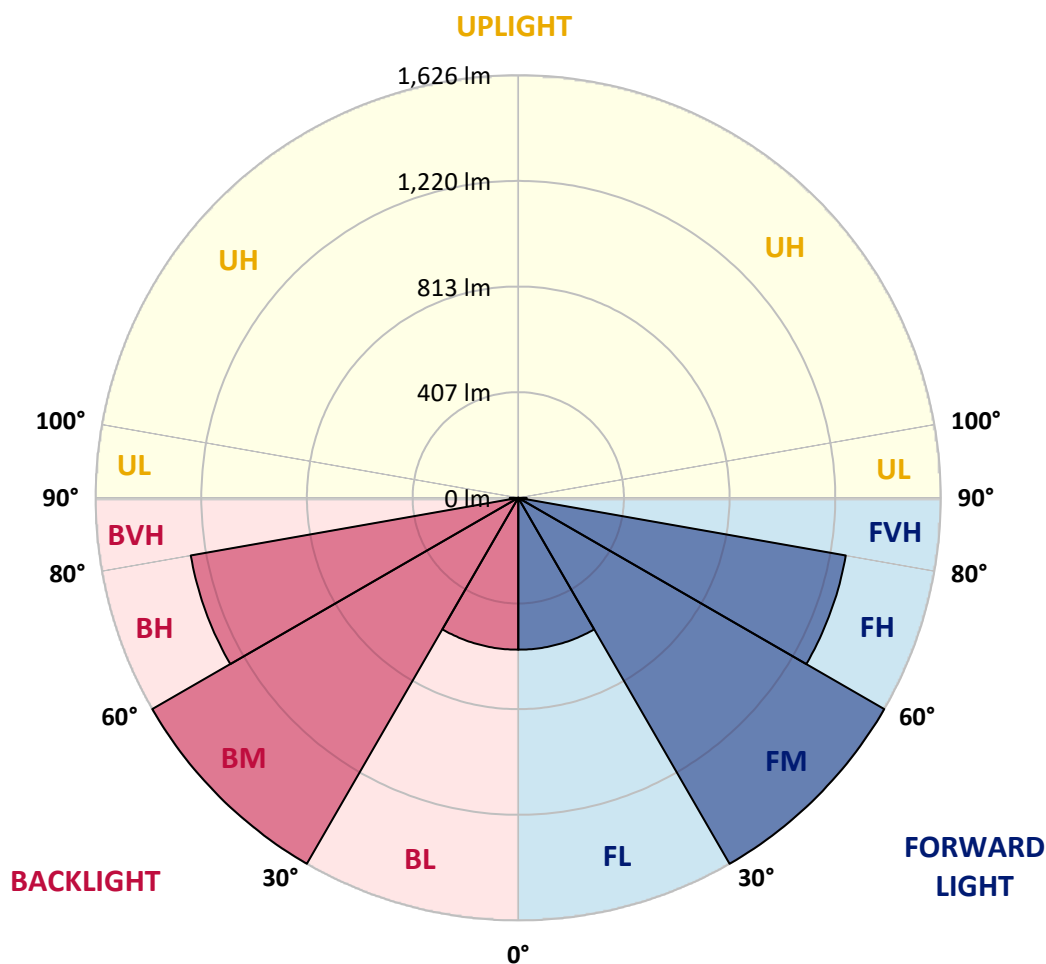
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 584.4  | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 1626.3 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 1279.9 | 18.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 32.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 584.4  | 8.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1626.3 | 23.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1279.9 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 32.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1316.6 | 1316.6 | 1316.6 | 1316.6 | 1316.6 | 1316.6 | 1316.6 | 1316.6 | 1316.6 | 1316.6 | 1316.6 |
| 2.5°  | 1317.7 | 1319.2 | 1319.2 | 1318.0 | 1320.7 | 1318.5 | 1318.5 | 1317.3 | 1318.5 | 1317.3 | 1317.3 |
| 5°    | 1324.5 | 1326.4 | 1327.1 | 1326.7 | 1330.0 | 1328.2 | 1328.2 | 1326.7 | 1327.1 | 1325.9 | 1325.9 |
| 7.5°  | 1337.2 | 1339.8 | 1341.3 | 1343.2 | 1348.1 | 1345.8 | 1344.3 | 1339.8 | 1337.9 | 1335.0 | 1335.0 |
| 10°   | 1341.3 | 1344.3 | 1349.2 | 1358.9 | 1370.1 | 1370.5 | 1366.0 | 1354.7 | 1346.1 | 1339.5 | 1338.3 |
| 12.5° | 1328.6 | 1332.7 | 1342.9 | 1362.6 | 1387.7 | 1397.9 | 1390.7 | 1372.0 | 1355.2 | 1343.2 | 1341.3 |
| 15°   | 1312.5 | 1316.9 | 1332.3 | 1362.2 | 1399.3 | 1422.9 | 1422.2 | 1397.5 | 1370.5 | 1351.8 | 1348.8 |
| 17.5° | 1287.4 | 1291.9 | 1313.9 | 1355.9 | 1408.4 | 1447.3 | 1457.8 | 1432.3 | 1394.5 | 1369.4 | 1365.3 |
| 20°   | 1242.1 | 1246.2 | 1276.9 | 1335.7 | 1411.3 | 1473.1 | 1500.5 | 1477.9 | 1430.8 | 1396.8 | 1390.3 |
| 22.5° | 1183.3 | 1189.6 | 1225.6 | 1300.8 | 1404.2 | 1500.1 | 1549.1 | 1533.8 | 1473.1 | 1426.0 | 1417.4 |
| 25°   | 1120.3 | 1127.1 | 1169.0 | 1258.2 | 1385.9 | 1519.6 | 1606.8 | 1597.1 | 1521.0 | 1462.3 | 1450.3 |
| 27.5° | 1066.1 | 1073.2 | 1118.9 | 1215.9 | 1357.4 | 1527.0 | 1663.7 | 1668.6 | 1579.1 | 1502.3 | 1489.6 |
| 30°   | 1023.4 | 1030.1 | 1078.8 | 1181.8 | 1320.7 | 1519.6 | 1713.5 | 1747.2 | 1638.3 | 1537.2 | 1518.8 |
| 32.5° | 976.6  | 985.2  | 1036.5 | 1140.2 | 1277.3 | 1501.5 | 1757.0 | 1832.2 | 1706.7 | 1574.6 | 1551.3 |
| 35°   | 917.4  | 925.3  | 979.2  | 1083.3 | 1220.4 | 1472.7 | 1793.2 | 1926.6 | 1804.9 | 1631.5 | 1605.7 |
| 37.5° | 845.5  | 853.0  | 906.5  | 1012.2 | 1163.8 | 1432.3 | 1821.0 | 2032.9 | 1921.7 | 1713.5 | 1679.1 |
| 40°   | 773.3  | 780.3  | 830.6  | 932.7  | 1096.0 | 1380.6 | 1830.8 | 2137.0 | 2055.7 | 1826.2 | 1789.5 |
| 42.5° | 706.9  | 713.3  | 759.4  | 854.5  | 1020.0 | 1314.8 | 1817.9 | 2227.6 | 2176.0 | 1904.9 | 1857.7 |
| 45°   | 646.0  | 651.6  | 692.4  | 781.2  | 941.1  | 1234.6 | 1779.8 | 2325.0 | 2319.1 | 1961.0 | 1897.4 |
| 47.5° | 576.3  | 581.9  | 624.2  | 710.0  | 862.0  | 1140.6 | 1715.0 | 2420.8 | 2517.8 | 2088.3 | 2014.9 |
| 50°   | 491.3  | 496.2  | 539.6  | 627.9  | 780.0  | 1040.6 | 1625.1 | 2496.2 | 2768.7 | 2281.2 | 2189.1 |
| 52.5° | 390.5  | 395.8  | 438.1  | 526.4  | 682.6  | 933.2  | 1506.9 | 2545.2 | 3058.6 | 2562.8 | 2449.3 |
| 55°   | 290.6  | 294.3  | 331.0  | 410.4  | 562.1  | 810.7  | 1358.5 | 2559.0 | 3387.3 | 2947.7 | 2805.8 |
| 57.5° | 210.8  | 213.1  | 236.7  | 295.8  | 426.1  | 657.5  | 1178.4 | 2523.1 | 3778.7 | 3441.2 | 3262.7 |
| 60°   | 170.8  | 171.5  | 178.7  | 204.8  | 296.2  | 484.5  | 960.8  | 2399.5 | 4203.3 | 4077.4 | 3852.5 |
| 62.5° | 155.0  | 155.0  | 156.9  | 164.0  | 200.3  | 319.8  | 697.6  | 2143.4 | 4658.6 | 4881.5 | 4580.0 |
| 65°   | 144.1  | 144.1  | 144.9  | 148.3  | 158.1  | 203.7  | 440.3  | 1726.2 | 5042.5 | 5823.2 | 5442.0 |
| 67.5° | 134.5  | 134.8  | 134.5  | 135.5  | 141.1  | 150.6  | 255.4  | 1192.3 | 5249.1 | 6799.0 | 6387.5 |
| 70°   | 124.3  | 125.0  | 123.2  | 123.2  | 127.7  | 128.0  | 159.9  | 653.8  | 5077.6 | 7616.9 | 7508.6 |
| 72.5° | 112.3  | 113.5  | 110.5  | 109.7  | 113.1  | 111.6  | 120.2  | 313.8  | 4359.4 | 7860.9 | 8145.6 |
| 75°   | 101.9  | 103.3  | 96.7   | 94.7   | 94.7   | 93.6   | 97.7   | 161.0  | 2829.4 | 6412.6 | 6858.9 |
| 77.5° | 92.5   | 95.5   | 84.7   | 78.6   | 77.2   | 73.8   | 79.7   | 98.5   | 1237.6 | 3010.6 | 2948.1 |
| 80°   | 76.4   | 80.5   | 69.7   | 62.5   | 60.0   | 56.2   | 62.9   | 68.9   | 368.1  | 699.2  | 669.5  |
| 82.5° | 56.9   | 58.8   | 49.4   | 44.6   | 42.3   | 39.7   | 47.2   | 48.0   | 119.8  | 247.5  | 279.7  |
| 85°   | 36.3   | 37.1   | 30.3   | 26.2   | 25.1   | 24.0   | 29.9   | 26.2   | 45.7   | 181.9  | 264.3  |
| 87.5° | 12.7   | 14.6   | 11.6   | 10.5   | 11.3   | 9.3    | 13.8   | 7.9    | 12.7   | 128.4  | 159.2  |
| 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)