

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: P959378

Luminaire Tested: **NAV-SB1A-760-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-760-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

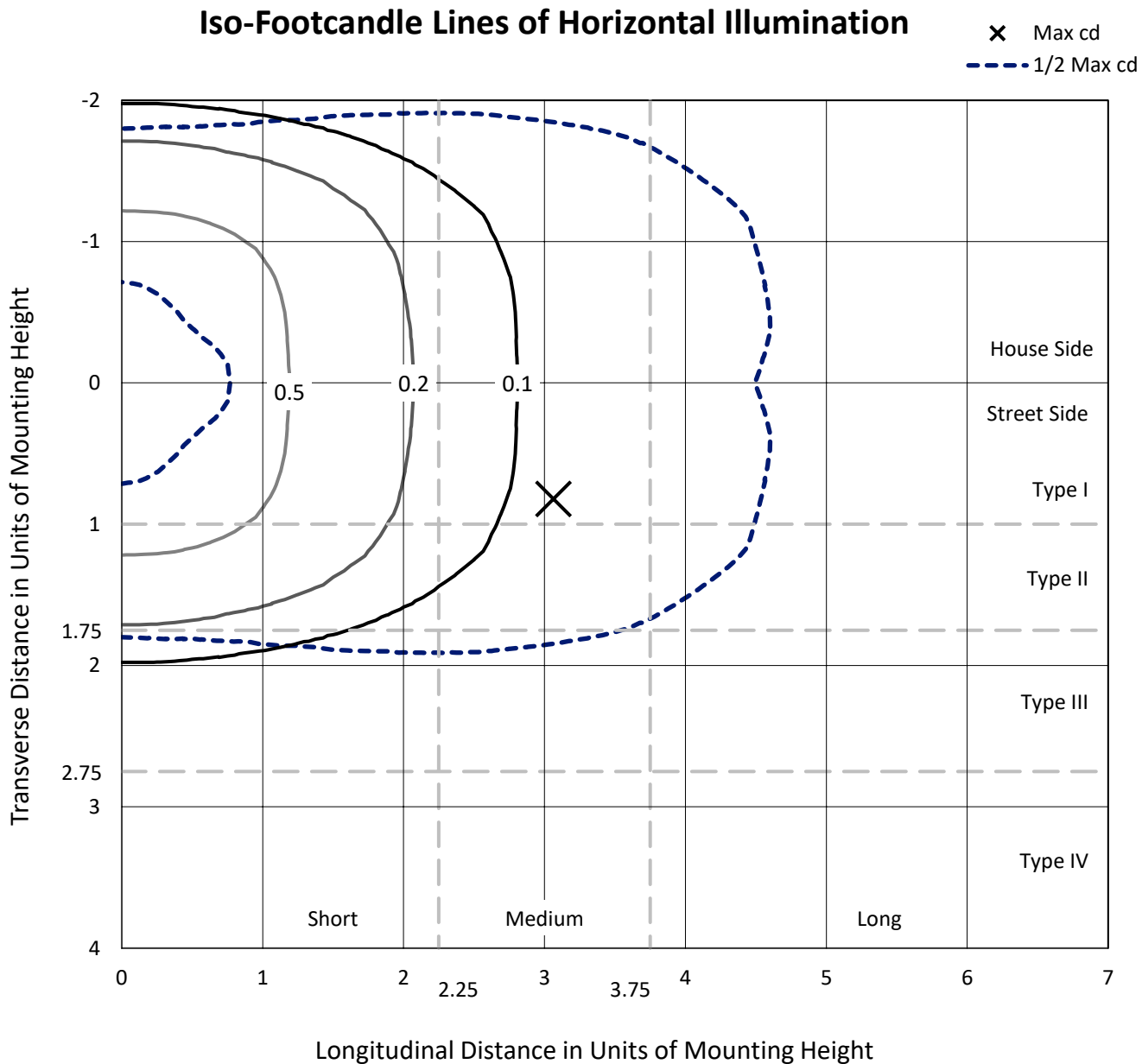
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5011.2 lumens  
Efficiency: N/A  
Efficacy: 162.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 30.9  
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



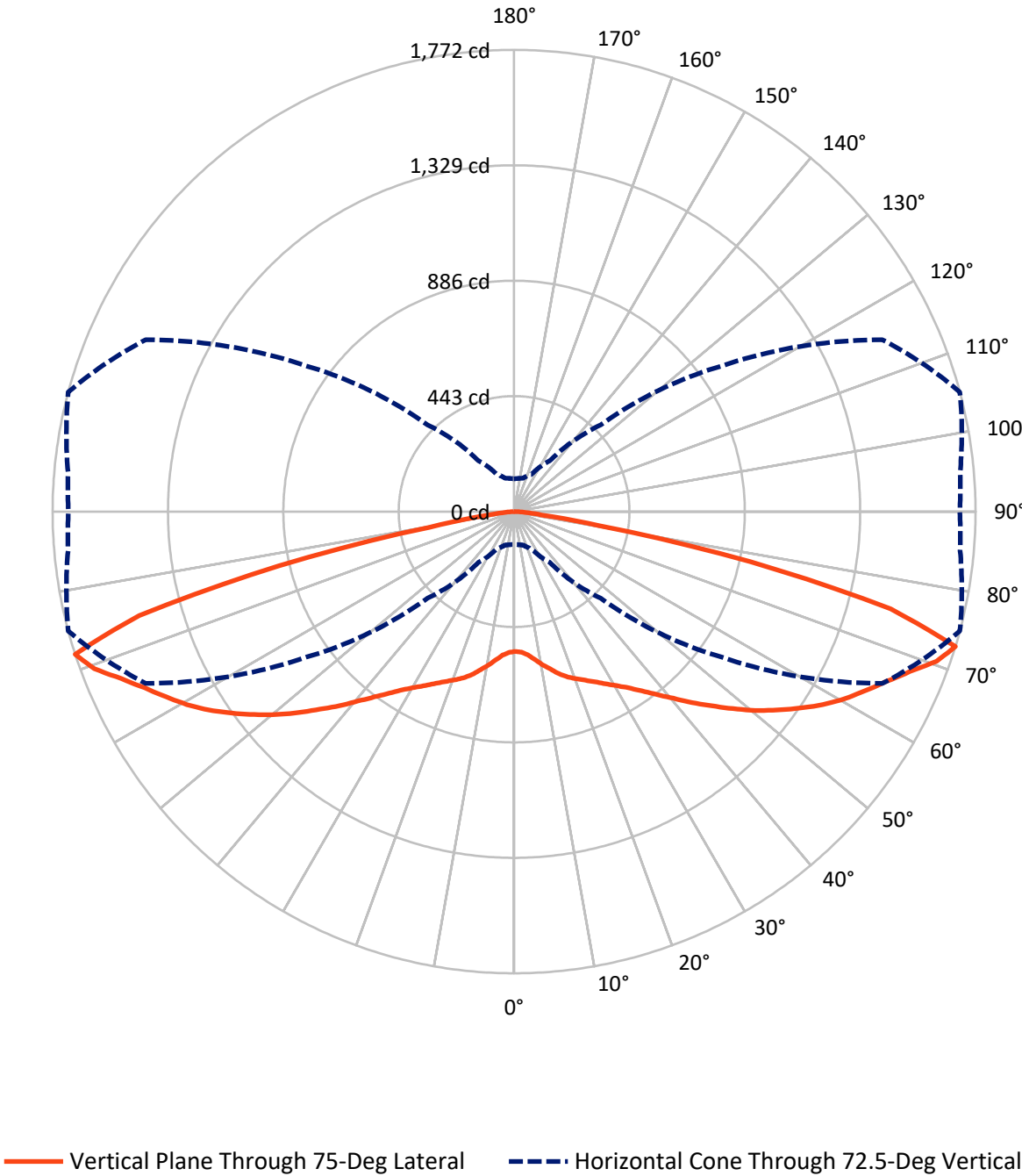
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Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2505.6   | 0.0    | 2505.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2505.6   | 0.0    | 2505.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5011.2   | 0.0    | 5011.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.6   | 1.0       |
| 10°-20°   | 173.4  | 3.5       |
| 20°-30°   | 335.1  | 6.7       |
| 30°-40°   | 565.9  | 11.3      |
| 40°-50°   | 897.4  | 17.9      |
| 50°-60°   | 1201.5 | 24.0      |
| 60°-70°   | 1143.5 | 22.8      |
| 70°-80°   | 596.7  | 11.9      |
| 80°-90°   | 45.2   | 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°    | 5011.2 | 100.0     |
| 0°-180°   | 5011.2 | 100.0     |

**Coefficient of Utilization**



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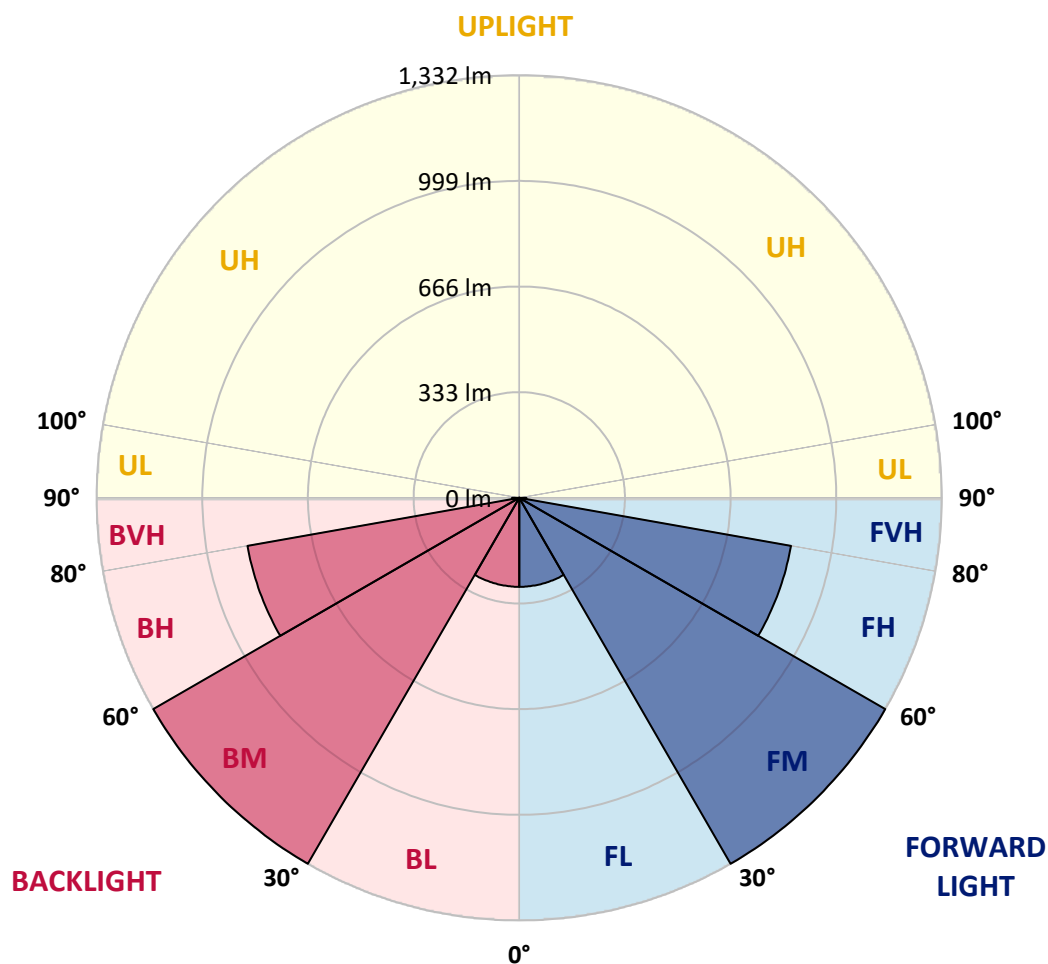
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 280.6  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 1332.4 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 870.1  | 17.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 22.6   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 280.6  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1332.4 | 26.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 870.1  | 17.4      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 22.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 536.8  | 536.8  | 536.8  | 536.8  | 536.8  | 536.8  | 536.8  | 536.8  | 536.8  | 536.8  | 536.8  |
| 2.5°  | 536.8  | 536.3  | 536.8  | 537.3  | 537.0  | 537.0  | 538.3  | 539.0  | 540.6  | 540.4  | 540.1  |
| 5°    | 533.2  | 533.0  | 535.0  | 537.3  | 539.0  | 542.1  | 546.0  | 548.8  | 552.4  | 553.2  | 553.2  |
| 7.5°  | 531.5  | 530.6  | 534.2  | 538.3  | 544.0  | 551.7  | 559.0  | 566.7  | 572.9  | 574.9  | 575.4  |
| 10°   | 532.7  | 533.0  | 537.8  | 545.5  | 554.4  | 565.2  | 575.6  | 588.8  | 597.5  | 599.5  | 601.6  |
| 12.5° | 538.5  | 538.0  | 546.2  | 558.5  | 570.8  | 584.4  | 596.7  | 611.0  | 620.4  | 625.4  | 627.4  |
| 15°   | 549.3  | 548.3  | 559.9  | 578.0  | 595.9  | 611.7  | 621.8  | 635.3  | 646.3  | 652.4  | 654.8  |
| 17.5° | 562.1  | 562.6  | 577.7  | 601.3  | 624.8  | 642.7  | 652.2  | 659.1  | 667.6  | 672.9  | 675.5  |
| 20°   | 584.7  | 585.7  | 602.6  | 630.5  | 657.3  | 677.7  | 685.4  | 682.9  | 685.2  | 689.3  | 692.4  |
| 22.5° | 614.8  | 615.3  | 634.3  | 664.5  | 692.6  | 715.1  | 720.3  | 709.7  | 703.4  | 706.1  | 708.2  |
| 25°   | 649.8  | 653.2  | 672.1  | 703.2  | 732.1  | 753.5  | 755.8  | 739.9  | 724.1  | 724.9  | 726.1  |
| 27.5° | 692.6  | 695.7  | 714.8  | 745.6  | 775.0  | 793.7  | 793.5  | 772.1  | 748.9  | 743.0  | 744.8  |
| 30°   | 738.9  | 742.2  | 762.0  | 793.7  | 821.0  | 837.4  | 833.8  | 808.5  | 775.2  | 764.2  | 765.6  |
| 32.5° | 794.0  | 796.0  | 815.9  | 847.7  | 873.0  | 886.0  | 878.6  | 847.4  | 806.0  | 793.5  | 796.5  |
| 35°   | 860.5  | 863.6  | 878.3  | 908.3  | 930.6  | 941.3  | 928.8  | 892.0  | 845.3  | 831.3  | 833.3  |
| 37.5° | 936.4  | 934.4  | 951.3  | 977.8  | 996.3  | 1003.0 | 985.8  | 942.1  | 890.4  | 873.7  | 876.8  |
| 40°   | 1015.8 | 1014.7 | 1033.2 | 1058.7 | 1068.8 | 1072.8 | 1047.4 | 999.7  | 942.3  | 924.4  | 930.3  |
| 42.5° | 1087.6 | 1086.9 | 1111.7 | 1140.1 | 1152.1 | 1147.5 | 1115.5 | 1060.8 | 1002.4 | 982.0  | 987.1  |
| 45°   | 1145.2 | 1144.2 | 1174.6 | 1214.5 | 1238.1 | 1230.4 | 1187.5 | 1128.3 | 1063.3 | 1042.1 | 1046.9 |
| 47.5° | 1189.5 | 1190.0 | 1222.7 | 1272.1 | 1313.3 | 1316.1 | 1260.9 | 1197.2 | 1130.4 | 1106.3 | 1113.5 |
| 50°   | 1221.5 | 1223.0 | 1258.1 | 1312.8 | 1369.1 | 1393.9 | 1335.9 | 1267.8 | 1199.8 | 1172.6 | 1180.8 |
| 52.5° | 1229.4 | 1232.3 | 1274.4 | 1338.6 | 1405.0 | 1452.2 | 1412.0 | 1335.6 | 1265.5 | 1239.6 | 1246.3 |
| 55°   | 1187.2 | 1192.8 | 1246.3 | 1336.6 | 1426.9 | 1490.7 | 1479.1 | 1404.5 | 1331.8 | 1305.1 | 1312.5 |
| 57.5° | 1090.2 | 1098.2 | 1160.6 | 1278.5 | 1422.1 | 1517.0 | 1531.0 | 1470.5 | 1398.0 | 1372.5 | 1378.3 |
| 60°   | 954.4  | 963.8  | 1023.7 | 1152.4 | 1353.5 | 1526.7 | 1567.6 | 1534.6 | 1458.9 | 1434.1 | 1439.5 |
| 62.5° | 749.4  | 761.7  | 833.3  | 984.3  | 1208.7 | 1481.4 | 1598.9 | 1592.7 | 1513.6 | 1482.7 | 1486.2 |
| 65°   | 480.7  | 493.8  | 569.3  | 747.6  | 1015.5 | 1342.7 | 1608.6 | 1649.2 | 1571.5 | 1528.3 | 1533.6 |
| 67.5° | 289.9  | 295.8  | 333.1  | 453.2  | 742.2  | 1133.8 | 1526.2 | 1712.0 | 1639.1 | 1585.3 | 1589.4 |
| 70°   | 185.5  | 188.8  | 211.0  | 266.1  | 419.6  | 827.2  | 1322.0 | 1723.7 | 1720.9 | 1643.9 | 1643.4 |
| 72.5° | 125.9  | 126.9  | 132.8  | 157.6  | 237.4  | 470.0  | 975.1  | 1560.5 | 1772.1 | 1719.3 | 1711.1 |
| 75°   | 92.1   | 97.8   | 107.2  | 111.5  | 134.8  | 234.8  | 558.8  | 1096.3 | 1493.4 | 1516.5 | 1460.7 |
| 77.5° | 68.6   | 68.8   | 81.9   | 87.0   | 96.2   | 125.2  | 236.4  | 612.0  | 927.2  | 973.5  | 868.4  |
| 80°   | 58.1   | 55.0   | 54.7   | 70.1   | 72.4   | 78.0   | 105.7  | 211.4  | 332.1  | 201.3  | 152.2  |
| 82.5° | 48.4   | 45.0   | 40.7   | 54.7   | 49.4   | 47.9   | 45.8   | 86.0   | 105.7  | 52.0   | 44.3   |
| 85°   | 33.7   | 32.3   | 30.7   | 35.8   | 28.2   | 24.1   | 22.0   | 40.2   | 44.5   | 22.0   | 19.5   |
| 87.5° | 14.6   | 15.1   | 15.4   | 15.9   | 11.8   | 8.4    | 8.4    | 11.3   | 11.3   | 8.7    | 6.4    |
| 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)