

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: P959254

Luminaire Tested: **NAV-SB1A-730-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959254  
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-730-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4736.5 lumens  
Efficiency: N/A  
Efficacy: 153.3 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

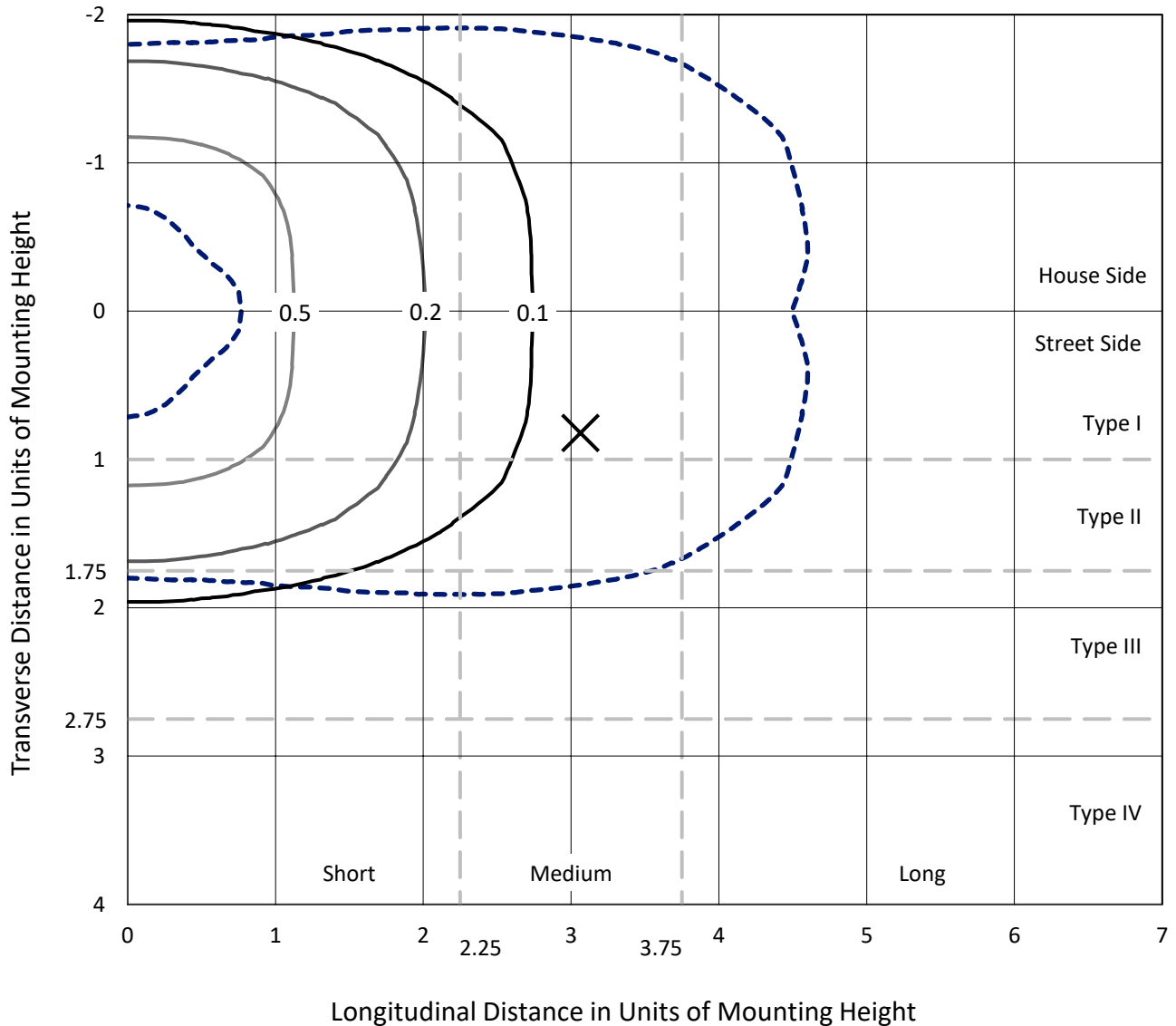
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

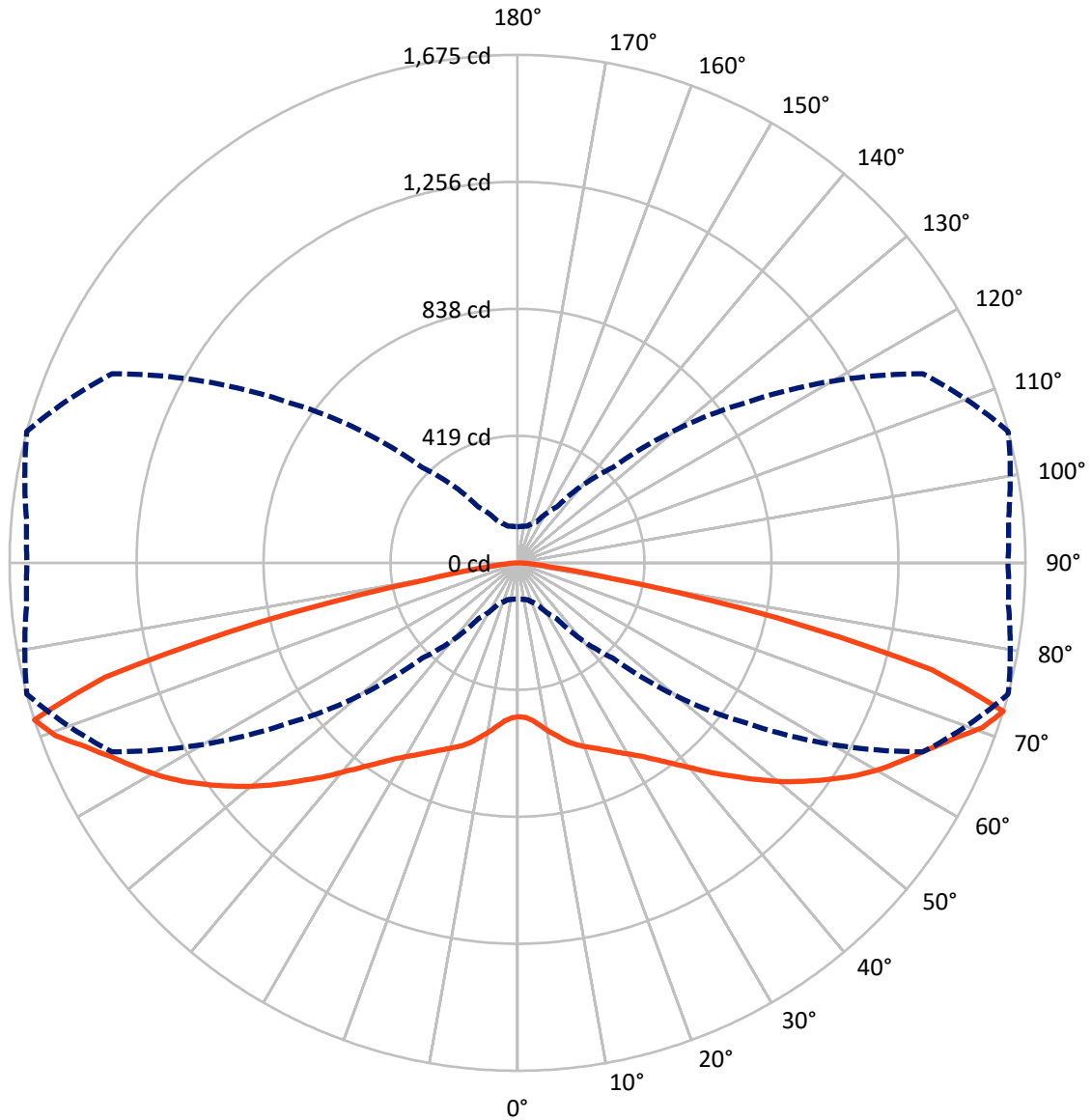
× Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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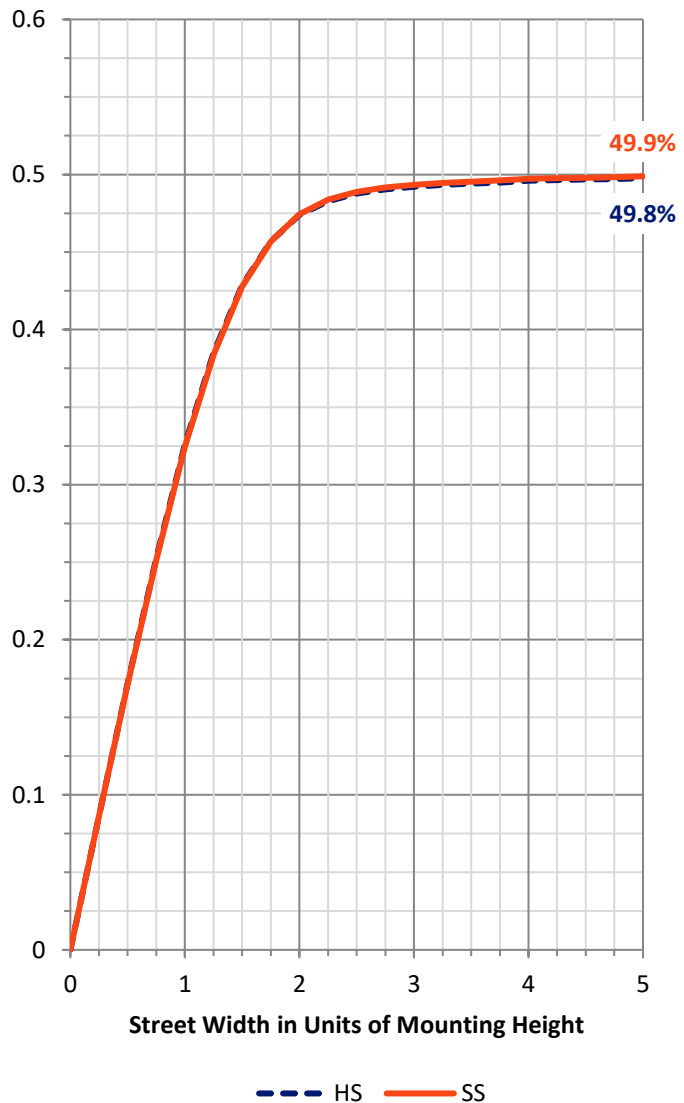
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2368.3   | 0.0    | 2368.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2368.3   | 0.0    | 2368.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4736.5   | 0.0    | 4736.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.7   | 1.0       |
| 10°-20°   | 163.9  | 3.5       |
| 20°-30°   | 316.7  | 6.7       |
| 30°-40°   | 534.8  | 11.3      |
| 40°-50°   | 848.2  | 17.9      |
| 50°-60°   | 1135.7 | 24.0      |
| 60°-70°   | 1080.8 | 22.8      |
| 70°-80°   | 564.0  | 11.9      |
| 80°-90°   | 42.7   | 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°    | 4736.5 | 100.0     |
| 0°-180°   | 4736.5 | 100.0     |

**Coefficient of Utilization**

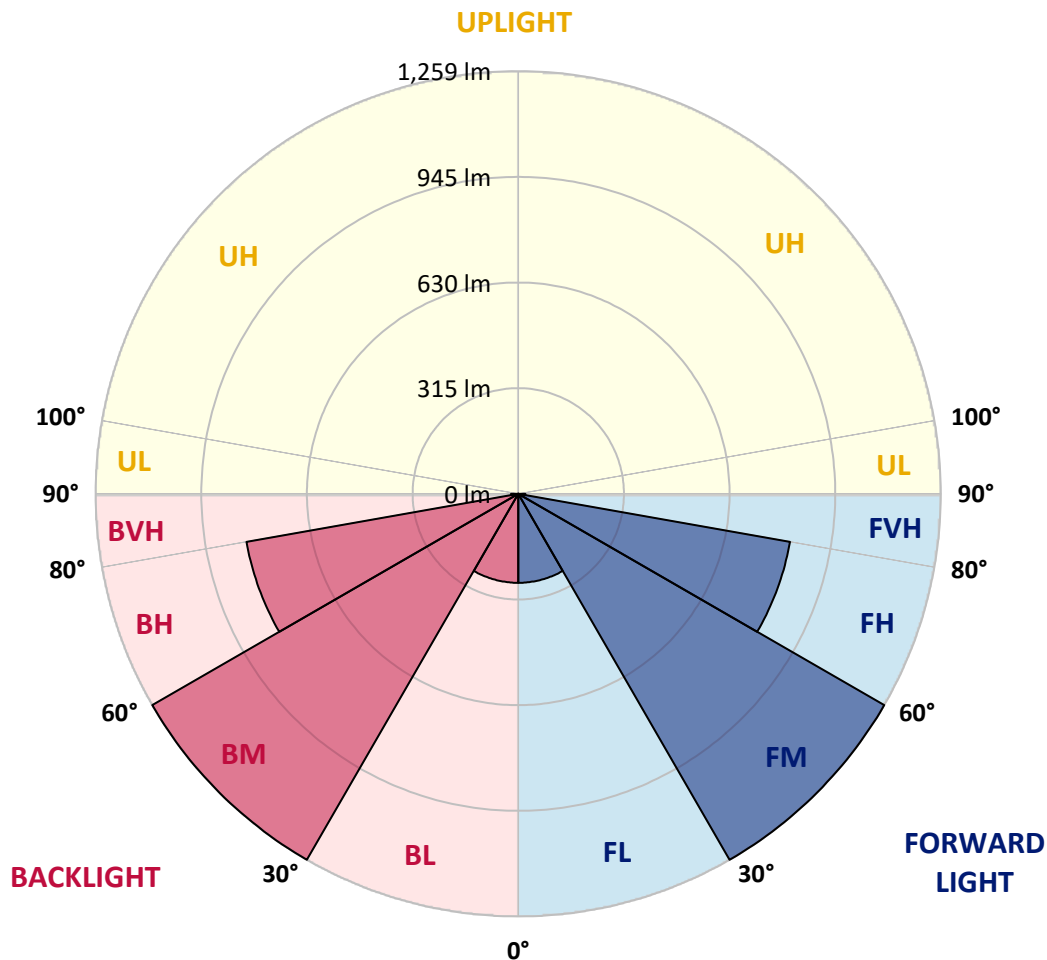


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 265.2  | 5.6       |                         |      |         |
| FM (30°-60°)   | 1259.4 | 26.6      |                         |      |         |
| FH (60°-80°)   | 822.4  | 17.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 21.3   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 265.2  | 5.6       | B1/500                  |      |         |
| BM (30°-60°)   | 1259.4 | 26.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 822.4  | 17.4      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 21.3   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 507.4  | 507.4  | 507.4  | 507.4  | 507.4  | 507.4  | 507.4  | 507.4  | 507.4  | 507.4  | 507.4  |
| 2.5°  | 507.4  | 506.9  | 507.4  | 507.9  | 507.6  | 507.6  | 508.8  | 509.5  | 511.0  | 510.8  | 510.6  |
| 5°    | 504.0  | 503.8  | 505.6  | 507.9  | 509.5  | 512.4  | 516.1  | 518.8  | 522.1  | 522.9  | 522.9  |
| 7.5°  | 502.2  | 501.5  | 504.9  | 508.8  | 514.1  | 521.4  | 528.4  | 535.7  | 541.5  | 543.4  | 543.9  |
| 10°   | 503.5  | 503.8  | 508.3  | 515.6  | 524.1  | 534.2  | 544.2  | 556.5  | 564.7  | 566.6  | 568.6  |
| 12.5° | 509.0  | 508.6  | 516.3  | 527.9  | 539.6  | 552.4  | 564.0  | 577.5  | 586.4  | 591.0  | 593.0  |
| 15°   | 519.3  | 518.2  | 529.1  | 546.3  | 563.2  | 578.2  | 587.6  | 600.4  | 610.9  | 616.6  | 618.9  |
| 17.5° | 531.3  | 531.8  | 546.0  | 568.3  | 590.6  | 607.5  | 616.4  | 623.0  | 631.0  | 636.0  | 638.5  |
| 20°   | 552.6  | 553.6  | 569.5  | 595.8  | 621.3  | 640.6  | 647.9  | 645.4  | 647.6  | 651.5  | 654.4  |
| 22.5° | 581.2  | 581.6  | 599.5  | 628.0  | 654.7  | 675.9  | 680.8  | 670.9  | 664.8  | 667.5  | 669.4  |
| 25°   | 614.3  | 617.4  | 635.3  | 664.5  | 691.9  | 712.2  | 714.4  | 699.4  | 684.4  | 685.1  | 686.3  |
| 27.5° | 654.7  | 657.5  | 675.7  | 704.7  | 732.5  | 750.2  | 749.9  | 729.9  | 707.9  | 702.3  | 704.0  |
| 30°   | 698.4  | 701.5  | 720.2  | 750.2  | 776.0  | 791.5  | 788.1  | 764.2  | 732.8  | 722.3  | 723.5  |
| 32.5° | 750.4  | 752.3  | 771.2  | 801.2  | 825.1  | 837.4  | 830.5  | 800.9  | 761.8  | 749.9  | 752.9  |
| 35°   | 813.2  | 816.2  | 830.2  | 858.5  | 879.6  | 889.7  | 877.8  | 843.1  | 799.0  | 785.8  | 787.6  |
| 37.5° | 885.1  | 883.1  | 899.1  | 924.2  | 941.7  | 948.0  | 931.8  | 890.4  | 841.6  | 825.8  | 828.7  |
| 40°   | 960.1  | 959.1  | 976.5  | 1000.7 | 1010.1 | 1014.0 | 990.0  | 944.8  | 890.6  | 873.7  | 879.3  |
| 42.5° | 1028.1 | 1027.4 | 1050.7 | 1077.6 | 1089.0 | 1084.7 | 1054.4 | 1002.7 | 947.5  | 928.1  | 933.0  |
| 45°   | 1082.4 | 1081.5 | 1110.3 | 1148.0 | 1170.2 | 1163.0 | 1122.4 | 1066.5 | 1005.0 | 985.0  | 989.5  |
| 47.5° | 1124.3 | 1124.7 | 1155.7 | 1202.4 | 1241.4 | 1244.0 | 1191.8 | 1131.5 | 1068.5 | 1045.7 | 1052.5 |
| 50°   | 1154.6 | 1156.0 | 1189.1 | 1240.9 | 1294.1 | 1317.5 | 1262.6 | 1198.3 | 1134.0 | 1108.3 | 1116.0 |
| 52.5° | 1162.0 | 1164.7 | 1204.6 | 1265.3 | 1327.9 | 1372.7 | 1334.7 | 1262.4 | 1196.1 | 1171.7 | 1177.9 |
| 55°   | 1122.1 | 1127.4 | 1177.9 | 1263.3 | 1348.7 | 1409.0 | 1398.0 | 1327.4 | 1258.7 | 1233.6 | 1240.6 |
| 57.5° | 1030.4 | 1037.9 | 1097.0 | 1208.5 | 1344.1 | 1433.9 | 1447.1 | 1389.8 | 1321.3 | 1297.2 | 1302.8 |
| 60°   | 902.0  | 911.0  | 967.6  | 1089.3 | 1279.3 | 1443.0 | 1481.7 | 1450.5 | 1378.9 | 1355.5 | 1360.6 |
| 62.5° | 708.4  | 720.0  | 787.6  | 930.3  | 1142.5 | 1400.3 | 1511.3 | 1505.4 | 1430.7 | 1401.4 | 1404.8 |
| 65°   | 454.4  | 466.8  | 538.1  | 706.6  | 959.8  | 1269.2 | 1520.4 | 1558.8 | 1485.3 | 1444.4 | 1449.6 |
| 67.5° | 274.0  | 279.5  | 314.9  | 428.2  | 701.5  | 1071.5 | 1442.6 | 1618.1 | 1549.2 | 1498.4 | 1502.2 |
| 70°   | 175.4  | 178.5  | 199.5  | 251.5  | 396.6  | 781.9  | 1249.6 | 1629.2 | 1626.6 | 1553.8 | 1553.3 |
| 72.5° | 119.0  | 119.9  | 125.6  | 148.9  | 224.4  | 444.2  | 921.6  | 1475.0 | 1675.0 | 1625.1 | 1617.3 |
| 75°   | 87.0   | 92.4   | 101.4  | 105.5  | 127.4  | 222.0  | 528.2  | 1036.3 | 1411.6 | 1433.4 | 1380.7 |
| 77.5° | 64.8   | 65.1   | 77.4   | 82.2   | 90.9   | 118.3  | 223.4  | 578.5  | 876.4  | 920.1  | 820.8  |
| 80°   | 54.9   | 52.0   | 51.8   | 66.2   | 68.5   | 73.8   | 99.8   | 199.8  | 313.9  | 190.3  | 143.9  |
| 82.5° | 45.7   | 42.5   | 38.4   | 51.8   | 46.6   | 45.2   | 43.3   | 81.3   | 99.8   | 49.1   | 41.8   |
| 85°   | 31.9   | 30.4   | 29.0   | 33.8   | 26.6   | 22.8   | 20.8   | 37.9   | 42.1   | 20.8   | 18.3   |
| 87.5° | 13.7   | 14.2   | 14.6   | 15.0   | 11.2   | 8.0    | 8.0    | 10.7   | 10.7   | 8.2    | 6.0    |
| 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)