

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: STREETWORKS

Report Number: P959440

Luminaire Tested: **NVN-SB1A-830-U-RW**

Issue Date: 1/21/2025

### Test Information

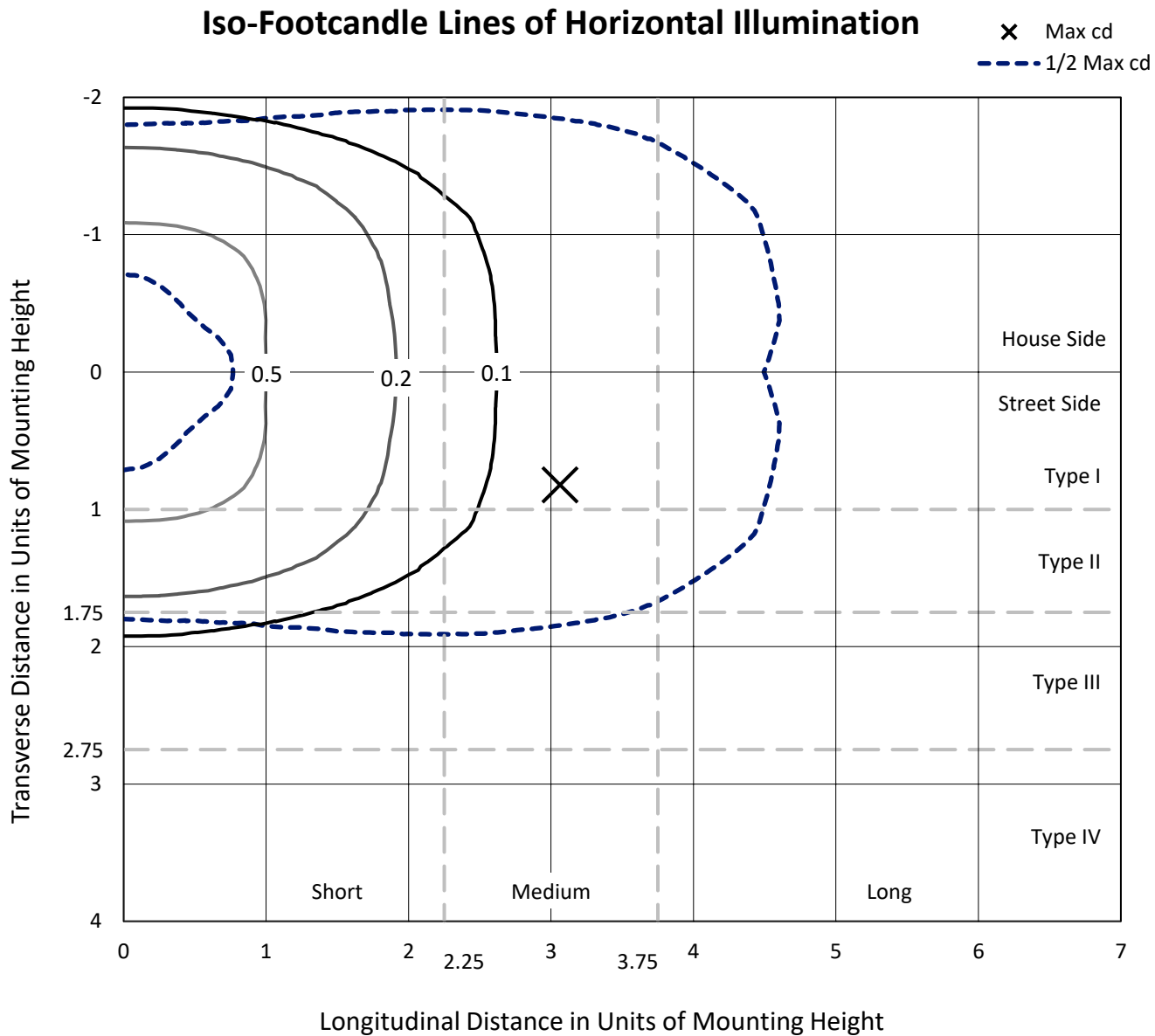
Test Method: LM-79-08  
Report Number: P959440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1A-830-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4255.8 lumens  
Efficiency: N/A  
Efficacy: 137.7 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

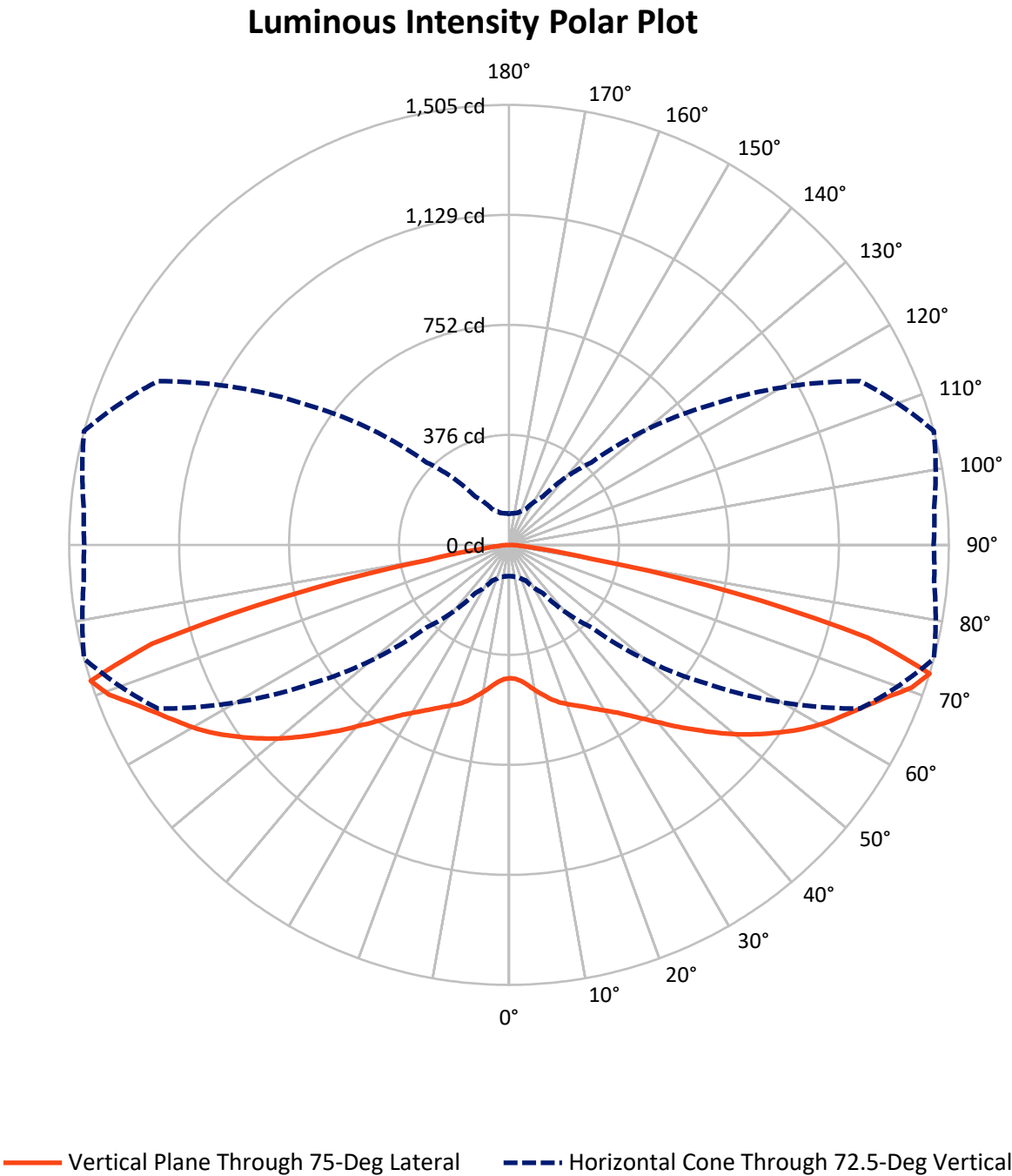


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Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
Type III - Medium - N/A

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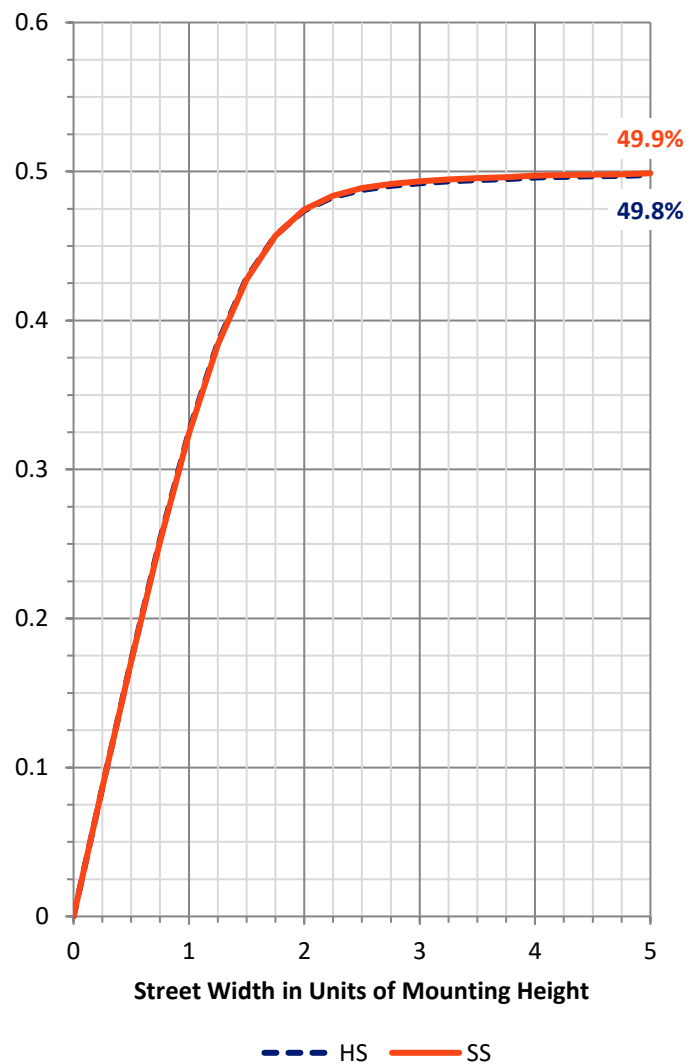
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2127.9   | 0.0    | 2127.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2127.9   | 0.0    | 2127.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4255.8   | 0.0    | 4255.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.7   | 1.0       |
| 10°-20°   | 147.3  | 3.5       |
| 20°-30°   | 284.6  | 6.7       |
| 30°-40°   | 480.6  | 11.3      |
| 40°-50°   | 762.1  | 17.9      |
| 50°-60°   | 1020.4 | 24.0      |
| 60°-70°   | 971.1  | 22.8      |
| 70°-80°   | 506.7  | 11.9      |
| 80°-90°   | 38.3   | 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°    | 4255.8 | 100.0     |
| 0°-180°   | 4255.8 | 100.0     |

**Coefficient of Utilization**



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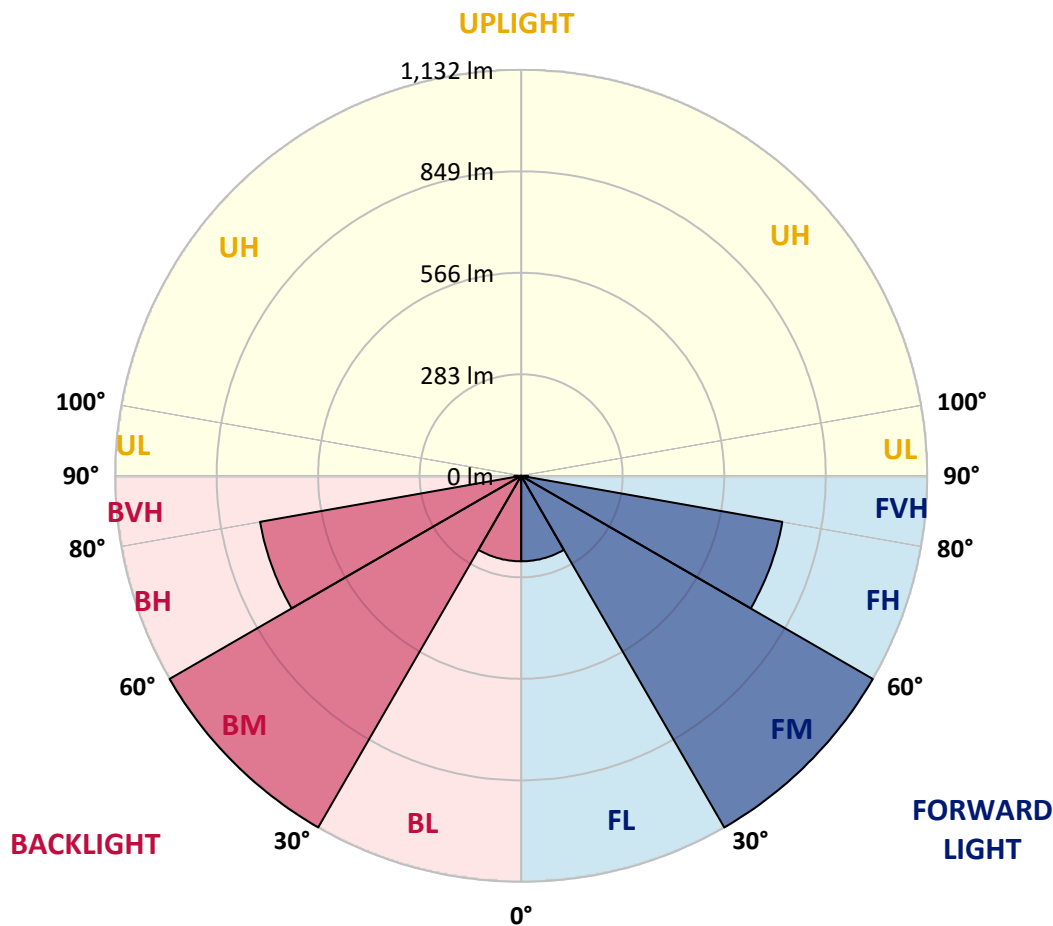
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 238.3  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 1131.5 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 738.9  | 17.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 19.2   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 238.3  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1131.5 | 26.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 738.9  | 17.4      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 19.2   | 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°    | 455.9  | 455.9  | 455.9  | 455.9  | 455.9  | 455.9  | 455.9  | 455.9  | 455.9  | 455.9  | 455.9  |
| 2.5°  | 455.9  | 455.4  | 455.9  | 456.3  | 456.1  | 456.1  | 457.2  | 457.9  | 459.1  | 458.9  | 458.7  |
| 5°    | 452.8  | 452.6  | 454.4  | 456.3  | 457.9  | 460.4  | 463.7  | 466.1  | 469.1  | 469.8  | 469.8  |
| 7.5°  | 451.3  | 450.7  | 453.7  | 457.2  | 462.0  | 468.4  | 474.8  | 481.3  | 486.5  | 488.2  | 488.7  |
| 10°   | 452.4  | 452.6  | 456.7  | 463.3  | 470.9  | 480.0  | 488.9  | 500.0  | 507.4  | 509.1  | 510.9  |
| 12.5° | 457.4  | 456.9  | 463.9  | 474.4  | 484.7  | 496.3  | 506.8  | 518.9  | 527.0  | 531.1  | 532.8  |
| 15°   | 466.5  | 465.7  | 475.4  | 490.9  | 506.0  | 519.6  | 528.0  | 539.6  | 548.9  | 554.1  | 556.1  |
| 17.5° | 477.3  | 477.9  | 490.7  | 510.7  | 530.6  | 545.8  | 553.9  | 559.8  | 566.9  | 571.4  | 573.7  |
| 20°   | 496.5  | 497.3  | 511.7  | 535.4  | 558.2  | 575.6  | 582.1  | 579.9  | 581.9  | 585.4  | 587.9  |
| 22.5° | 522.1  | 522.5  | 538.6  | 564.3  | 588.2  | 607.3  | 611.6  | 602.8  | 597.4  | 599.7  | 601.5  |
| 25°   | 552.0  | 554.7  | 570.8  | 597.1  | 621.7  | 639.9  | 641.9  | 628.4  | 614.9  | 615.6  | 616.6  |
| 27.5° | 588.2  | 590.8  | 607.1  | 633.1  | 658.2  | 674.0  | 673.8  | 655.8  | 636.0  | 631.0  | 632.5  |
| 30°   | 627.5  | 630.4  | 647.1  | 674.0  | 697.3  | 711.1  | 708.2  | 686.6  | 658.4  | 649.0  | 650.2  |
| 32.5° | 674.2  | 676.0  | 692.9  | 719.9  | 741.4  | 752.5  | 746.2  | 719.7  | 684.5  | 673.8  | 676.4  |
| 35°   | 730.7  | 733.4  | 746.0  | 771.4  | 790.3  | 799.4  | 788.7  | 757.5  | 717.9  | 706.0  | 707.7  |
| 37.5° | 795.3  | 793.6  | 807.9  | 830.5  | 846.1  | 851.8  | 837.2  | 800.0  | 756.1  | 742.0  | 744.7  |
| 40°   | 862.6  | 861.7  | 877.4  | 899.1  | 907.6  | 911.1  | 889.6  | 848.9  | 800.3  | 785.0  | 790.1  |
| 42.5° | 923.7  | 923.0  | 944.1  | 968.2  | 978.5  | 974.6  | 947.4  | 900.9  | 851.4  | 833.9  | 838.3  |
| 45°   | 972.6  | 971.7  | 997.5  | 1031.5 | 1051.4 | 1045.0 | 1008.4 | 958.3  | 903.0  | 885.0  | 889.2  |
| 47.5° | 1010.1 | 1010.6 | 1038.4 | 1080.4 | 1115.3 | 1117.8 | 1070.8 | 1016.7 | 960.0  | 939.5  | 945.7  |
| 50°   | 1037.3 | 1038.6 | 1068.5 | 1114.9 | 1162.8 | 1183.8 | 1134.5 | 1076.7 | 1018.8 | 995.8  | 1002.8 |
| 52.5° | 1044.1 | 1046.4 | 1082.3 | 1136.8 | 1193.1 | 1233.4 | 1199.2 | 1134.3 | 1074.7 | 1052.8 | 1058.4 |
| 55°   | 1008.2 | 1013.0 | 1058.4 | 1135.1 | 1211.9 | 1265.9 | 1256.1 | 1192.7 | 1131.0 | 1108.4 | 1114.7 |
| 57.5° | 925.9  | 932.6  | 985.6  | 1085.8 | 1207.7 | 1288.3 | 1300.2 | 1248.8 | 1187.3 | 1165.5 | 1170.6 |
| 60°   | 810.5  | 818.6  | 869.4  | 978.7  | 1149.4 | 1296.5 | 1331.4 | 1303.3 | 1239.0 | 1217.9 | 1222.5 |
| 62.5° | 636.4  | 646.9  | 707.7  | 835.9  | 1026.4 | 1258.1 | 1357.8 | 1352.6 | 1285.5 | 1259.2 | 1262.2 |
| 65°   | 408.3  | 419.3  | 483.5  | 634.9  | 862.4  | 1140.3 | 1366.1 | 1400.7 | 1334.6 | 1297.9 | 1302.5 |
| 67.5° | 246.2  | 251.2  | 282.9  | 384.8  | 630.4  | 962.8  | 1296.1 | 1453.9 | 1391.9 | 1346.3 | 1349.8 |
| 70°   | 157.5  | 160.3  | 179.3  | 226.0  | 356.4  | 702.5  | 1122.7 | 1463.9 | 1461.4 | 1396.0 | 1395.6 |
| 72.5° | 106.9  | 107.7  | 112.7  | 133.9  | 201.6  | 399.1  | 828.1  | 1325.2 | 1504.9 | 1460.2 | 1453.2 |
| 75°   | 78.2   | 83.0   | 91.0   | 94.7   | 114.5  | 199.5  | 474.6  | 931.1  | 1268.3 | 1287.9 | 1240.5 |
| 77.5° | 58.2   | 58.4   | 69.5   | 73.9   | 81.7   | 106.3  | 200.8  | 519.8  | 787.4  | 826.8  | 737.5  |
| 80°   | 49.3   | 46.7   | 46.5   | 59.6   | 61.5   | 66.3   | 89.8   | 179.5  | 282.1  | 171.0  | 129.3  |
| 82.5° | 41.1   | 38.2   | 34.5   | 46.5   | 41.9   | 40.6   | 38.8   | 73.0   | 89.8   | 44.1   | 37.6   |
| 85°   | 28.7   | 27.4   | 26.0   | 30.4   | 23.9   | 20.4   | 18.7   | 34.1   | 37.8   | 18.7   | 16.5   |
| 87.5° | 12.4   | 12.8   | 13.0   | 13.4   | 10.0   | 7.2    | 7.2    | 9.5    | 9.5    | 7.4    | 5.4    |
| 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)