

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: P881785

Luminaire Tested: **NVN-SB1B-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1B-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

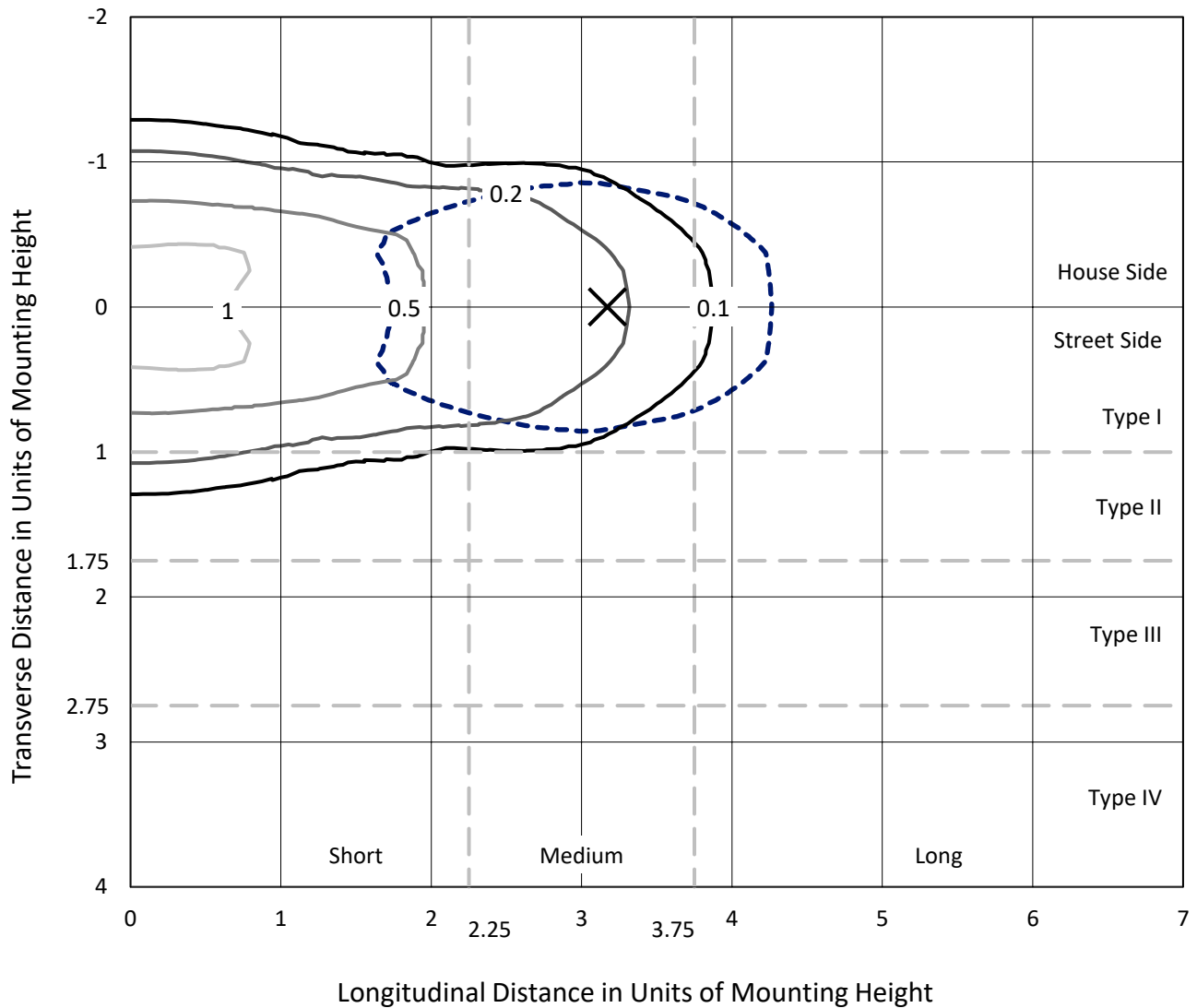
Lumens per Lamp: N/A  
Luminaire Lumens: 4703.9 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): 120.0  
Input Current (Ain): 0.33  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.305  
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

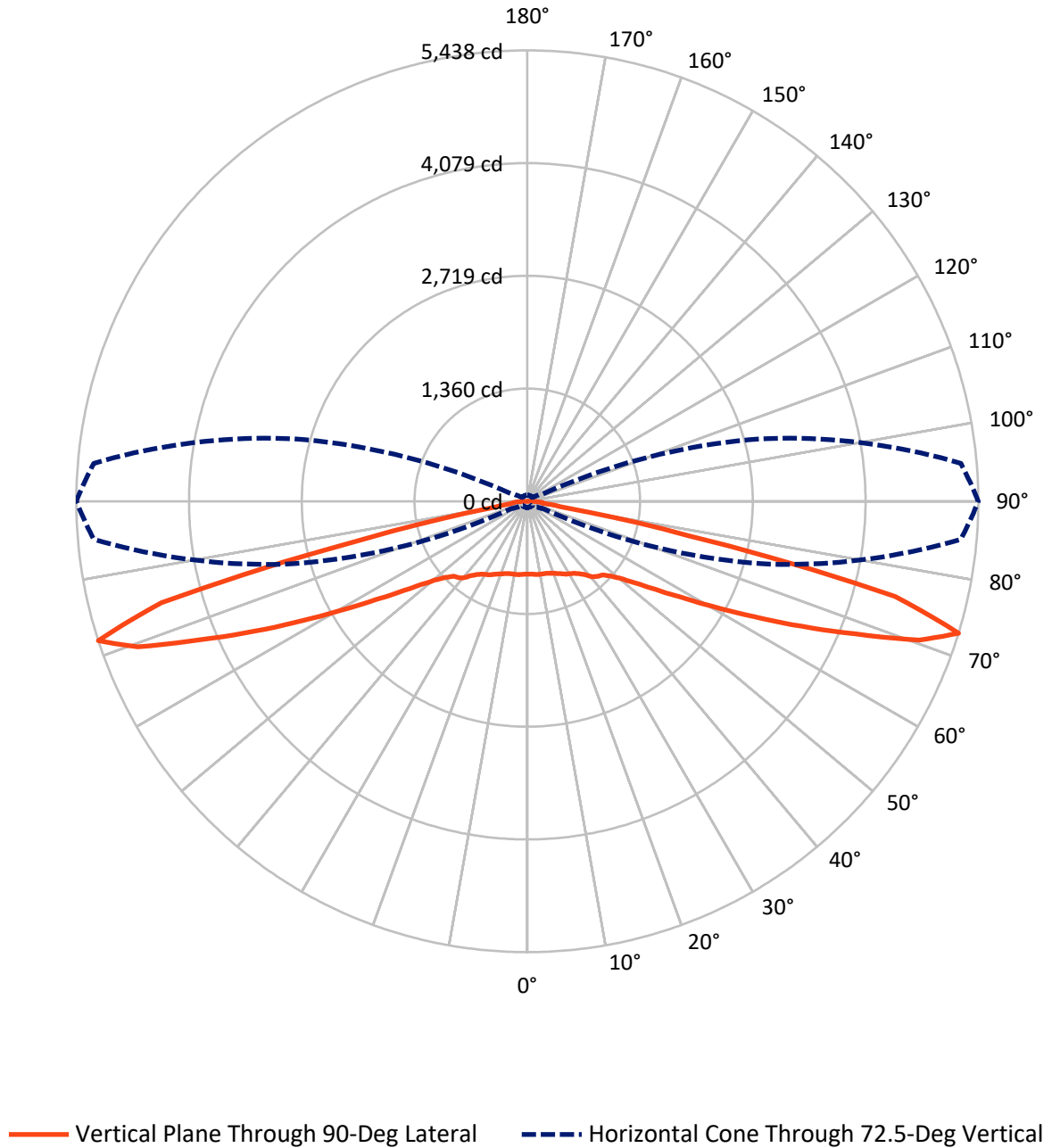
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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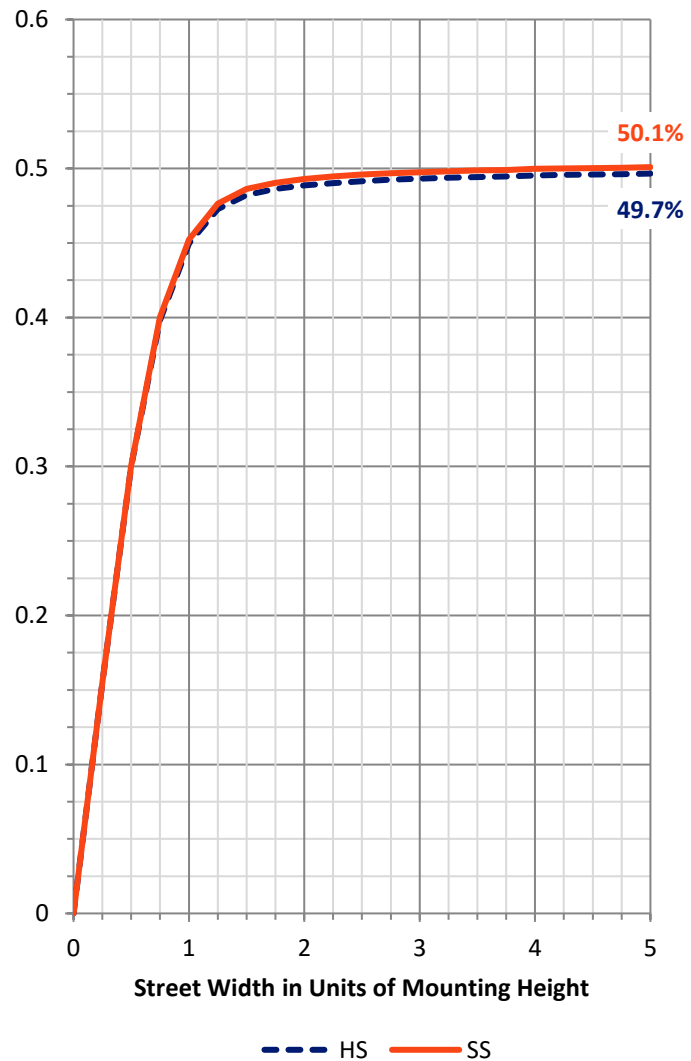
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2351.9   | 0.0    | 2351.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2351.9   | 0.0    | 2351.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4703.9   | 0.0    | 4703.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.2   | 1.8       |
| 10°-20°   | 260.6  | 5.5       |
| 20°-30°   | 434.5  | 9.2       |
| 30°-40°   | 597.6  | 12.7      |
| 40°-50°   | 729.8  | 15.5      |
| 50°-60°   | 844.1  | 17.9      |
| 60°-70°   | 1006.5 | 21.4      |
| 70°-80°   | 702.4  | 14.9      |
| 80°-90°   | 43.1   | 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°    | 4703.9 | 100.0     |
| 0°-180°   | 4703.9 | 100.0     |

**Coefficient of Utilization**



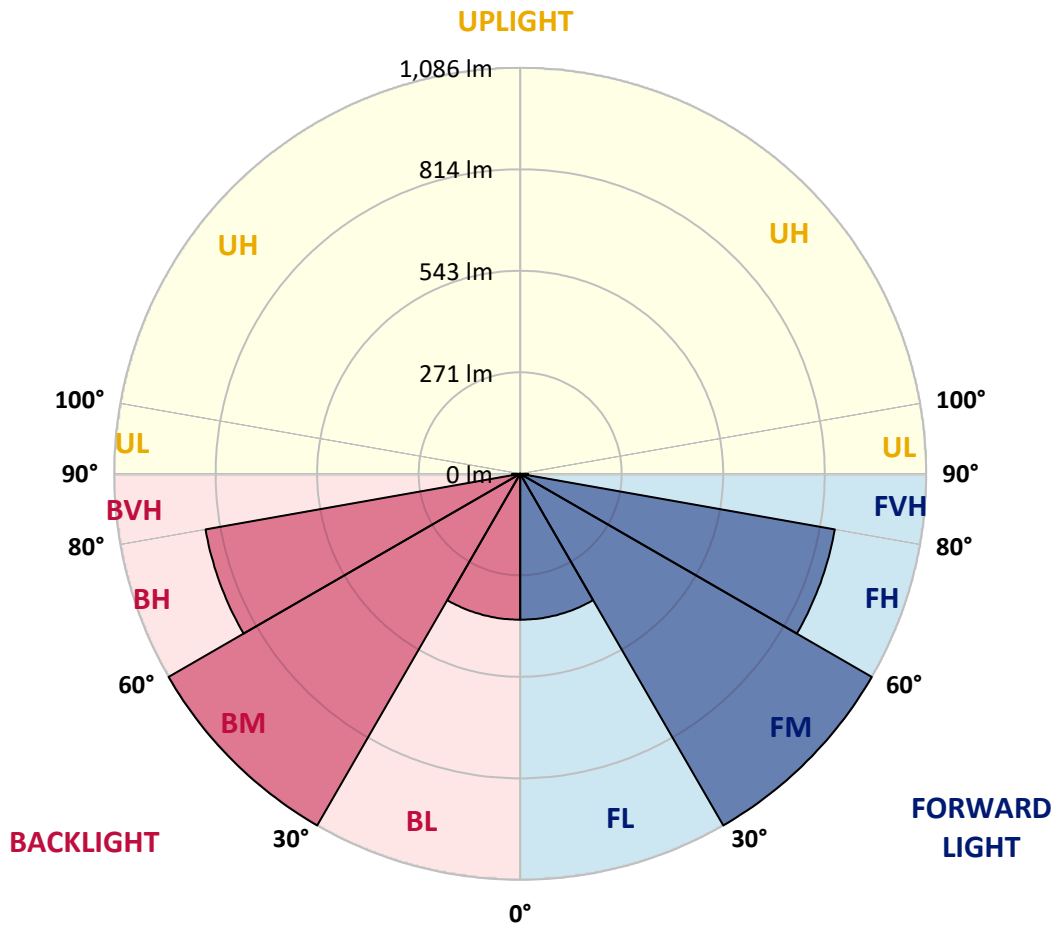
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 390.2  | 8.3       |                         |      |         |
| FM (30°-60°)   | 1085.8 | 23.1      |                         |      |         |
| FH (60°-80°)   | 854.5  | 18.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 21.6   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 390.2  | 8.3       | B1/500                  |      |         |
| BM (30°-60°)   | 1085.8 | 23.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 854.5  | 18.2      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 21.6   | 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 I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 879.0 | 879.0 | 879.0 | 879.0 | 879.0 | 879.0  | 879.0  | 879.0  | 879.0  | 879.0  | 879.0  |
| 2.5°  | 879.7 | 880.7 | 880.7 | 880.0 | 881.7 | 880.2  | 880.2  | 879.5  | 880.2  | 879.5  | 879.5  |
| 5°    | 884.2 | 885.5 | 886.0 | 885.7 | 888.0 | 886.7  | 886.7  | 885.7  | 886.0  | 885.2  | 885.2  |
| 7.5°  | 892.7 | 894.5 | 895.5 | 896.7 | 900.0 | 898.5  | 897.5  | 894.5  | 893.2  | 891.2  | 891.2  |
| 10°   | 895.5 | 897.5 | 900.7 | 907.2 | 914.7 | 915.0  | 912.0  | 904.5  | 898.7  | 894.2  | 893.5  |
| 12.5° | 887.0 | 889.7 | 896.5 | 909.7 | 926.5 | 933.2  | 928.5  | 916.0  | 904.7  | 896.7  | 895.5  |
| 15°   | 876.2 | 879.2 | 889.5 | 909.5 | 934.2 | 950.0  | 949.5  | 933.0  | 915.0  | 902.5  | 900.5  |
| 17.5° | 859.5 | 862.5 | 877.2 | 905.2 | 940.2 | 966.2  | 973.2  | 956.2  | 931.0  | 914.2  | 911.5  |
| 20°   | 829.2 | 832.0 | 852.5 | 891.7 | 942.2 | 983.5  | 1001.7 | 986.7  | 955.2  | 932.5  | 928.2  |
| 22.5° | 790.0 | 794.2 | 818.2 | 868.5 | 937.5 | 1001.5 | 1034.2 | 1024.0 | 983.5  | 952.0  | 946.2  |
| 25°   | 748.0 | 752.5 | 780.5 | 840.0 | 925.2 | 1014.5 | 1072.7 | 1066.2 | 1015.5 | 976.2  | 968.2  |
| 27.5° | 711.7 | 716.5 | 747.0 | 811.7 | 906.2 | 1019.5 | 1110.7 | 1114.0 | 1054.2 | 1003.0 | 994.5  |
| 30°   | 683.2 | 687.7 | 720.2 | 789.0 | 881.7 | 1014.5 | 1144.0 | 1166.5 | 1093.7 | 1026.2 | 1014.0 |
| 32.5° | 652.0 | 657.7 | 692.0 | 761.2 | 852.7 | 1002.5 | 1173.0 | 1223.2 | 1139.5 | 1051.2 | 1035.7 |
| 35°   | 612.5 | 617.7 | 653.7 | 723.2 | 814.7 | 983.2  | 1197.2 | 1286.2 | 1205.0 | 1089.2 | 1072.0 |
| 37.5° | 564.5 | 569.5 | 605.2 | 675.7 | 777.0 | 956.2  | 1215.7 | 1357.2 | 1283.0 | 1144.0 | 1121.0 |
| 40°   | 516.2 | 521.0 | 554.5 | 622.7 | 731.7 | 921.7  | 1222.2 | 1426.7 | 1372.5 | 1219.2 | 1194.7 |
| 42.5° | 472.0 | 476.2 | 507.0 | 570.5 | 681.0 | 877.7  | 1213.7 | 1487.2 | 1452.7 | 1271.7 | 1240.2 |
| 45°   | 431.2 | 435.0 | 462.2 | 521.5 | 628.2 | 824.2  | 1188.2 | 1552.2 | 1548.2 | 1309.2 | 1266.7 |
| 47.5° | 384.7 | 388.5 | 416.7 | 474.0 | 575.5 | 761.5  | 1145.0 | 1616.2 | 1681.0 | 1394.2 | 1345.2 |
| 50°   | 328.0 | 331.2 | 360.2 | 419.2 | 520.7 | 694.7  | 1085.0 | 1666.5 | 1848.5 | 1523.0 | 1461.5 |
| 52.5° | 260.7 | 264.2 | 292.5 | 351.5 | 455.7 | 623.0  | 1006.0 | 1699.2 | 2042.0 | 1711.0 | 1635.2 |
| 55°   | 194.0 | 196.5 | 221.0 | 274.0 | 375.2 | 541.2  | 907.0  | 1708.5 | 2261.5 | 1968.0 | 1873.2 |
| 57.5° | 140.7 | 142.2 | 158.0 | 197.5 | 284.5 | 439.0  | 786.7  | 1684.5 | 2522.7 | 2297.5 | 2178.2 |
| 60°   | 114.0 | 114.5 | 119.2 | 136.7 | 197.7 | 323.5  | 641.5  | 1602.0 | 2806.2 | 2722.2 | 2572.0 |
| 62.5° | 103.5 | 103.5 | 104.7 | 109.5 | 133.7 | 213.5  | 465.7  | 1431.0 | 3110.2 | 3259.0 | 3057.7 |
| 65°   | 96.2  | 96.2  | 96.7  | 99.0  | 105.5 | 136.0  | 294.0  | 1152.5 | 3366.5 | 3887.7 | 3633.2 |
| 67.5° | 89.7  | 90.0  | 89.7  | 90.5  | 94.2  | 100.5  | 170.5  | 796.0  | 3504.5 | 4539.2 | 4264.5 |
| 70°   | 83.0  | 83.5  | 82.2  | 82.2  | 85.2  | 85.5   | 106.7  | 436.5  | 3390.0 | 5085.2 | 5013.0 |
| 72.5° | 75.0  | 75.7  | 73.7  | 73.2  | 75.5  | 74.5   | 80.2   | 209.5  | 2910.5 | 5248.2 | 5438.2 |
| 75°   | 68.0  | 69.0  | 64.5  | 63.2  | 63.2  | 62.5   | 65.2   | 107.5  | 1889.0 | 4281.2 | 4579.2 |
| 77.5° | 61.7  | 63.7  | 56.5  | 52.5  | 51.5  | 49.2   | 53.2   | 65.7   | 826.2  | 2010.0 | 1968.2 |
| 80°   | 51.0  | 53.7  | 46.5  | 41.7  | 40.0  | 37.5   | 42.0   | 46.0   | 245.7  | 466.7  | 447.0  |
| 82.5° | 38.0  | 39.2  | 33.0  | 29.7  | 28.2  | 26.5   | 31.5   | 32.0   | 80.0   | 165.2  | 186.7  |
| 85°   | 24.2  | 24.7  | 20.2  | 17.5  | 16.7  | 16.0   | 20.0   | 17.5   | 30.5   | 121.5  | 176.5  |
| 87.5° | 8.5   | 9.7   | 7.7   | 7.0   | 7.5   | 6.2    | 9.2    | 5.2    | 8.5    | 85.7   | 106.2  |
| 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)