

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: P882625

Luminaire Tested: **NVN-SB2C-830-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882625  
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-SB2C-830-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

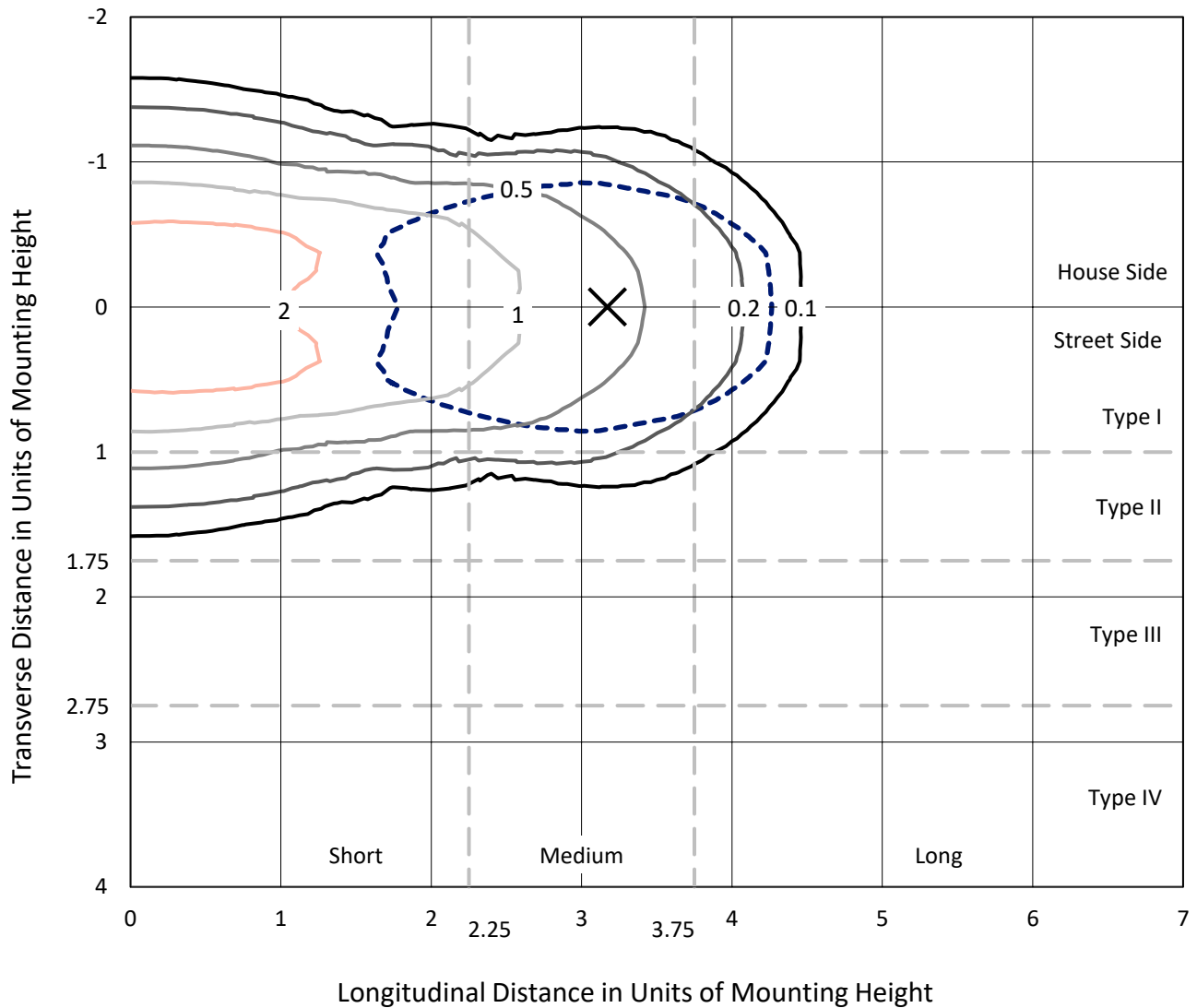
Lumens per Lamp: N/A  
Luminaire Lumens: 13212 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

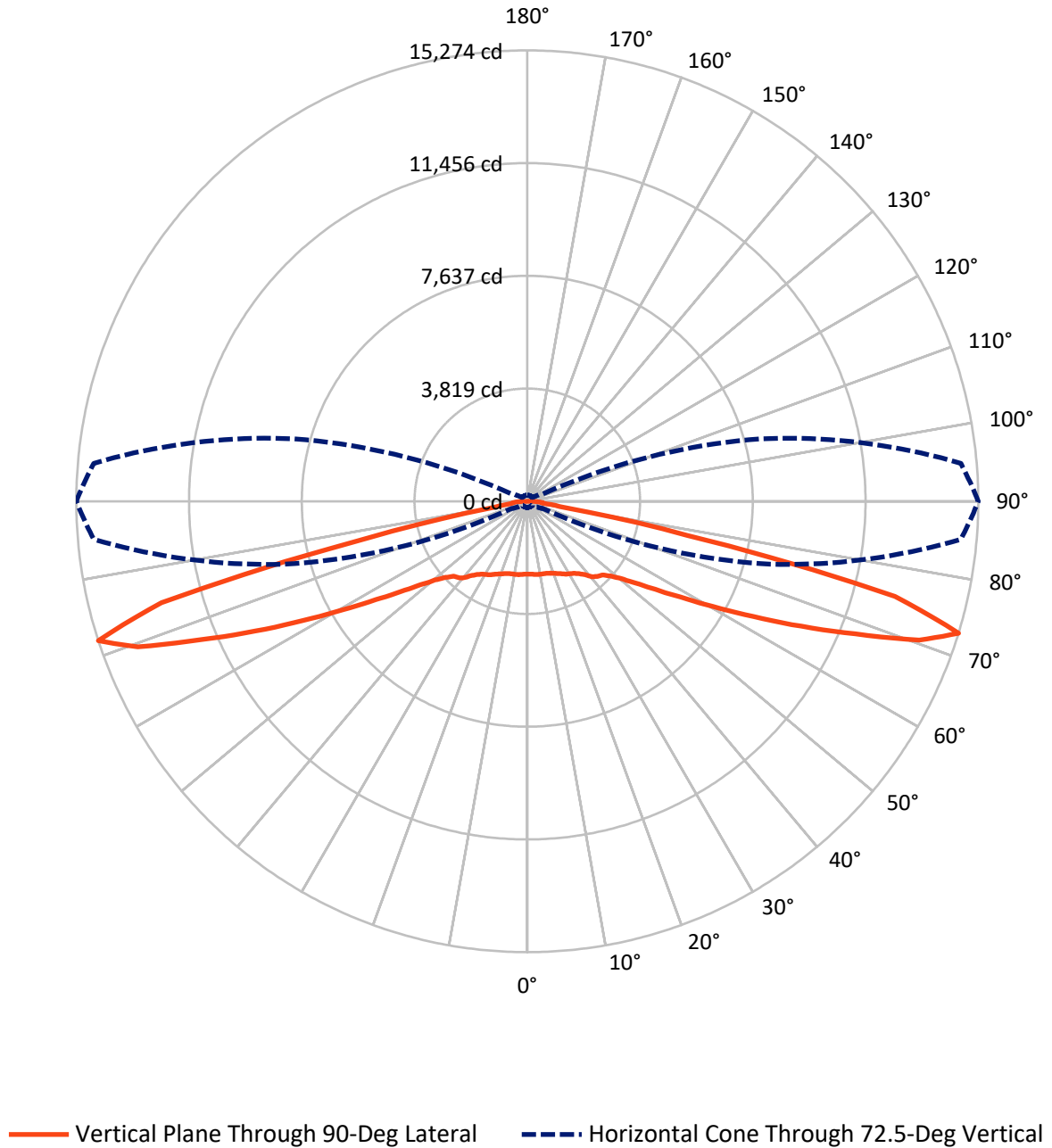
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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    | 6606.0   | 0.0    | 6606.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6606.0   | 0.0    | 6606.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13212.0  | 0.0    | 13212.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 239.4   | 1.8       |
| 10°-20°   | 731.9   | 5.5       |
| 20°-30°   | 1220.4  | 9.2       |
| 30°-40°   | 1678.5  | 12.7      |
| 40°-50°   | 2049.9  | 15.5      |
| 50°-60°   | 2370.9  | 17.9      |
| 60°-70°   | 2826.9  | 21.4      |
| 70°-80°   | 1973.0  | 14.9      |
| 80°-90°   | 121.2   | 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°    | 13212.0 | 100.0     |
| 0°-180°   | 13212.0 | 100.0     |

**Coefficient of Utilization**



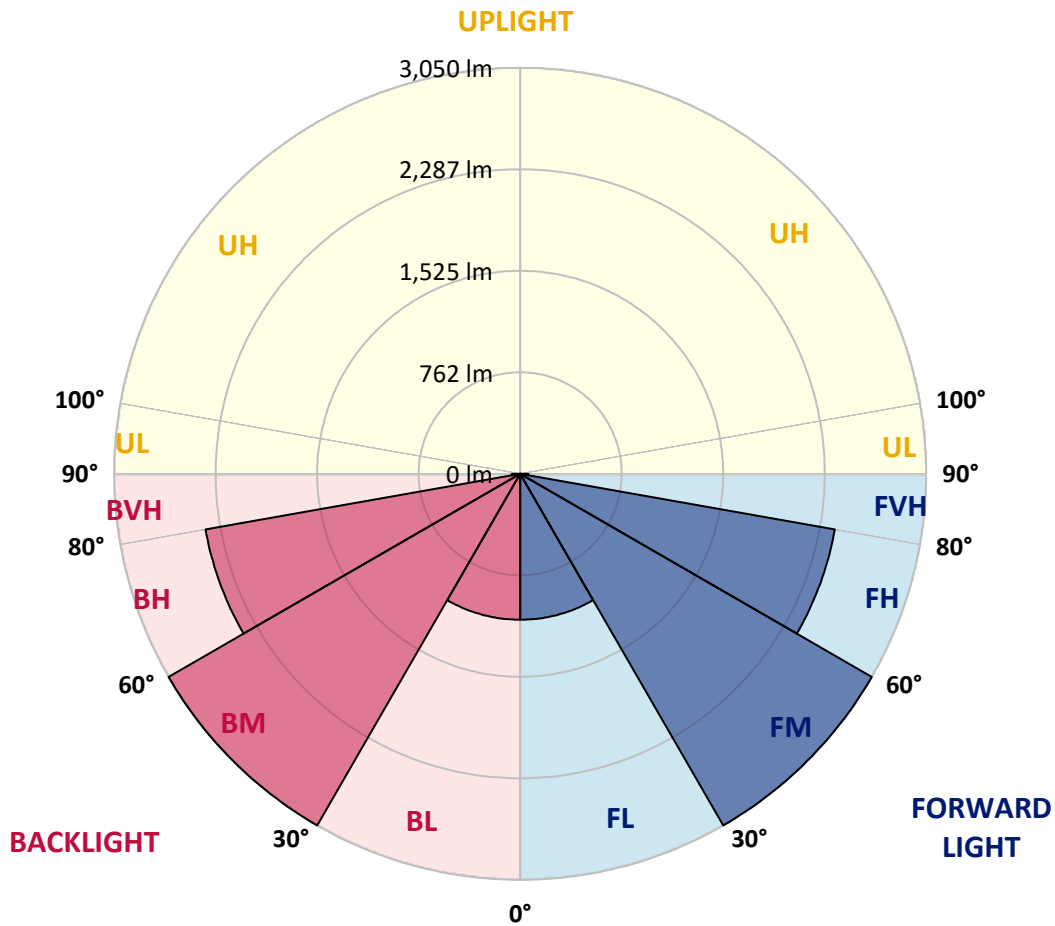
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1095.9 | 8.3       |                         |      |         |
| FM (30°-60°)   | 3049.6 | 23.1      |                         |      |         |
| FH (60°-80°)   | 2399.9 | 18.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 60.6   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 1095.9 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 3049.6 | 23.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2399.9 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 60.6   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 2468.8 | 2468.8 | 2468.8 | 2468.8 | 2468.8 | 2468.8 | 2468.8 | 2468.8 | 2468.8 | 2468.8  | 2468.8  |
| 2.5°  | 2470.9 | 2473.7 | 2473.7 | 2471.6 | 2476.5 | 2472.3 | 2472.3 | 2470.2 | 2472.3 | 2470.2  | 2470.2  |
| 5°    | 2483.5 | 2487.1 | 2488.5 | 2487.8 | 2494.1 | 2490.6 | 2490.6 | 2487.8 | 2488.5 | 2486.4  | 2486.4  |
| 7.5°  | 2507.4 | 2512.3 | 2515.1 | 2518.7 | 2527.8 | 2523.6 | 2520.8 | 2512.3 | 2508.8 | 2503.2  | 2503.2  |
| 10°   | 2515.1 | 2520.8 | 2529.9 | 2548.1 | 2569.2 | 2569.9 | 2561.5 | 2540.4 | 2524.3 | 2511.6  | 2509.5  |
| 12.5° | 2491.3 | 2499.0 | 2518.0 | 2555.2 | 2602.2 | 2621.2 | 2607.8 | 2572.7 | 2541.1 | 2518.7  | 2515.1  |
| 15°   | 2461.1 | 2469.5 | 2498.3 | 2554.5 | 2624.0 | 2668.2 | 2666.8 | 2620.5 | 2569.9 | 2534.8  | 2529.2  |
| 17.5° | 2414.0 | 2422.5 | 2463.9 | 2542.5 | 2640.8 | 2713.9 | 2733.5 | 2685.8 | 2614.9 | 2567.8  | 2560.1  |
| 20°   | 2329.1 | 2336.8 | 2394.4 | 2504.6 | 2646.4 | 2762.3 | 2813.6 | 2771.4 | 2683.0 | 2619.1  | 2607.1  |
| 22.5° | 2218.8 | 2230.8 | 2298.2 | 2439.3 | 2633.1 | 2812.9 | 2904.8 | 2876.1 | 2762.3 | 2673.8  | 2657.7  |
| 25°   | 2100.9 | 2113.5 | 2192.1 | 2359.3 | 2598.7 | 2849.4 | 3013.0 | 2994.7 | 2852.2 | 2741.9  | 2719.5  |
| 27.5° | 1999.1 | 2012.4 | 2098.1 | 2279.9 | 2545.3 | 2863.4 | 3119.7 | 3128.8 | 2961.0 | 2817.1  | 2793.2  |
| 30°   | 1919.0 | 1931.6 | 2022.9 | 2216.0 | 2476.5 | 2849.4 | 3213.1 | 3276.3 | 3072.0 | 2882.4  | 2848.0  |
| 32.5° | 1831.2 | 1847.4 | 1943.6 | 2138.1 | 2395.1 | 2815.7 | 3294.5 | 3435.7 | 3200.5 | 2952.6  | 2909.1  |
| 35°   | 1720.3 | 1735.0 | 1836.2 | 2031.4 | 2288.3 | 2761.6 | 3362.7 | 3612.6 | 3384.4 | 3059.3  | 3010.9  |
| 37.5° | 1585.5 | 1599.5 | 1699.9 | 1897.9 | 2182.3 | 2685.8 | 3414.6 | 3812.0 | 3603.5 | 3213.1  | 3148.5  |
| 40°   | 1450.0 | 1463.3 | 1557.4 | 1749.1 | 2055.2 | 2588.9 | 3432.9 | 4007.2 | 3854.9 | 3424.4  | 3355.6  |
| 42.5° | 1325.7 | 1337.6 | 1424.0 | 1602.3 | 1912.7 | 2465.3 | 3409.0 | 4177.2 | 4080.3 | 3571.9  | 3483.4  |
| 45°   | 1211.2 | 1221.8 | 1298.3 | 1464.7 | 1764.5 | 2315.0 | 3337.4 | 4359.7 | 4348.5 | 3677.2  | 3557.9  |
| 47.5° | 1080.6 | 1091.2 | 1170.5 | 1331.3 | 1616.4 | 2138.8 | 3215.9 | 4539.5 | 4721.3 | 3916.0  | 3778.3  |
| 50°   | 921.2  | 930.4  | 1011.8 | 1177.5 | 1462.6 | 1951.3 | 3047.4 | 4680.6 | 5191.8 | 4277.6  | 4104.8  |
| 52.5° | 732.4  | 742.2  | 821.5  | 987.2  | 1280.0 | 1749.8 | 2825.5 | 4772.6 | 5735.3 | 4805.6  | 4592.8  |
| 55°   | 544.9  | 551.9  | 620.7  | 769.6  | 1053.9 | 1520.2 | 2547.4 | 4798.6 | 6351.8 | 5527.4  | 5261.3  |
| 57.5° | 395.3  | 399.5  | 443.8  | 554.7  | 799.1  | 1233.0 | 2209.7 | 4731.2 | 7085.5 | 6452.9  | 6117.9  |
| 60°   | 320.2  | 321.6  | 334.9  | 384.1  | 555.4  | 908.6  | 1801.7 | 4499.5 | 7881.8 | 7645.8  | 7223.8  |
| 62.5° | 290.7  | 290.7  | 294.2  | 307.5  | 375.7  | 599.6  | 1308.1 | 4019.2 | 8735.6 | 9153.4  | 8588.1  |
| 65°   | 270.3  | 270.3  | 271.7  | 278.1  | 296.3  | 382.0  | 825.7  | 3237.0 | 9455.3 | 10919.3 | 10204.5 |
| 67.5° | 252.1  | 252.8  | 252.1  | 254.2  | 264.7  | 282.3  | 478.9  | 2235.7 | 9842.9 | 12749.2 | 11977.5 |
| 70°   | 233.1  | 234.5  | 231.0  | 231.0  | 239.4  | 240.1  | 299.8  | 1226.0 | 9521.3 | 14282.7 | 14079.8 |
| 72.5° | 210.6  | 212.8  | 207.1  | 205.7  | 212.1  | 209.2  | 225.4  | 588.4  | 8174.6 | 14740.5 | 15274.1 |
| 75°   | 191.0  | 193.8  | 181.2  | 177.6  | 177.6  | 175.5  | 183.3  | 301.9  | 5305.5 | 12024.5 | 12861.5 |
| 77.5° | 173.4  | 179.1  | 158.7  | 147.5  | 144.6  | 138.3  | 149.6  | 184.7  | 2320.6 | 5645.4  | 5528.1  |
| 80°   | 143.2  | 151.0  | 130.6  | 117.3  | 112.3  | 105.3  | 118.0  | 129.2  | 690.2  | 1310.9  | 1255.5  |
| 82.5° | 106.7  | 110.2  | 92.7   | 83.6   | 79.3   | 74.4   | 88.5   | 89.9   | 224.7  | 464.1   | 524.5   |
| 85°   | 68.1   | 69.5   | 56.9   | 49.2   | 47.0   | 44.9   | 56.2   | 49.2   | 85.7   | 341.3   | 495.7   |
| 87.5° | 23.9   | 27.4   | 21.8   | 19.7   | 21.1   | 17.6   | 26.0   | 14.7   | 23.9   | 240.8   | 298.4   |
| 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)