

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: P967624

Luminaire Tested: **NVN-SB5A-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967624  
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-SB5A-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

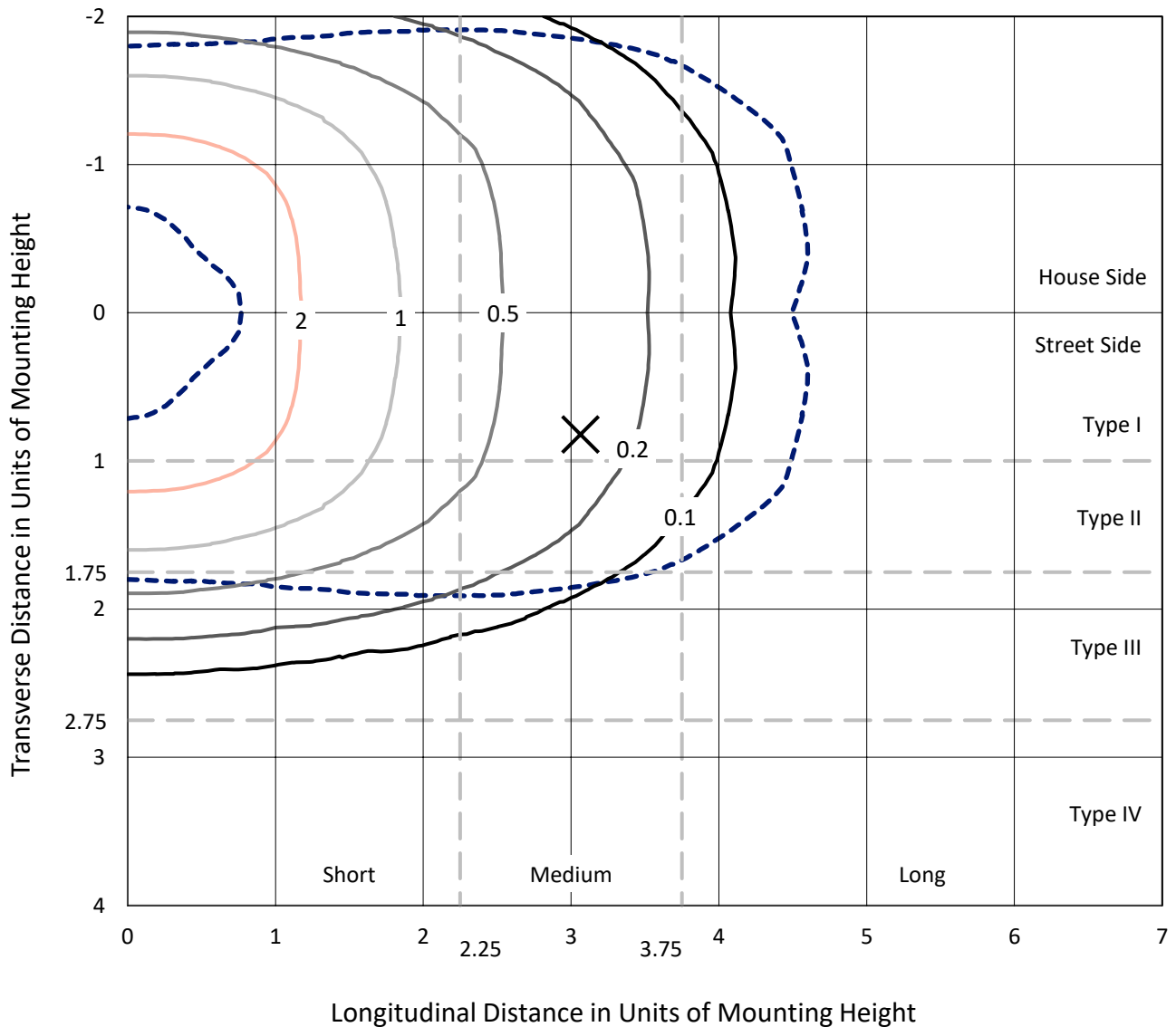
Lumens per Lamp: N/A  
Luminaire Lumens: 19757.9 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

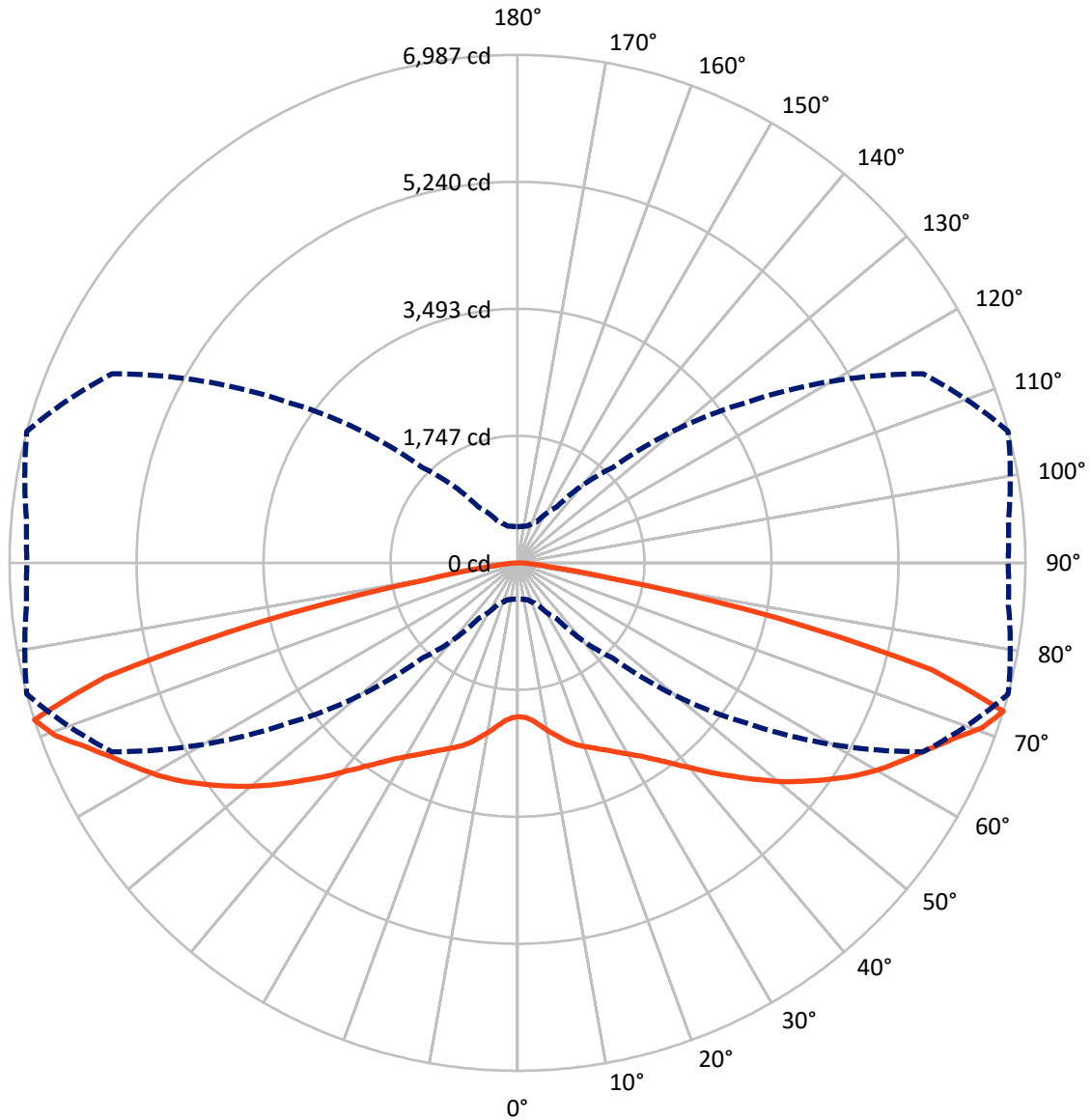
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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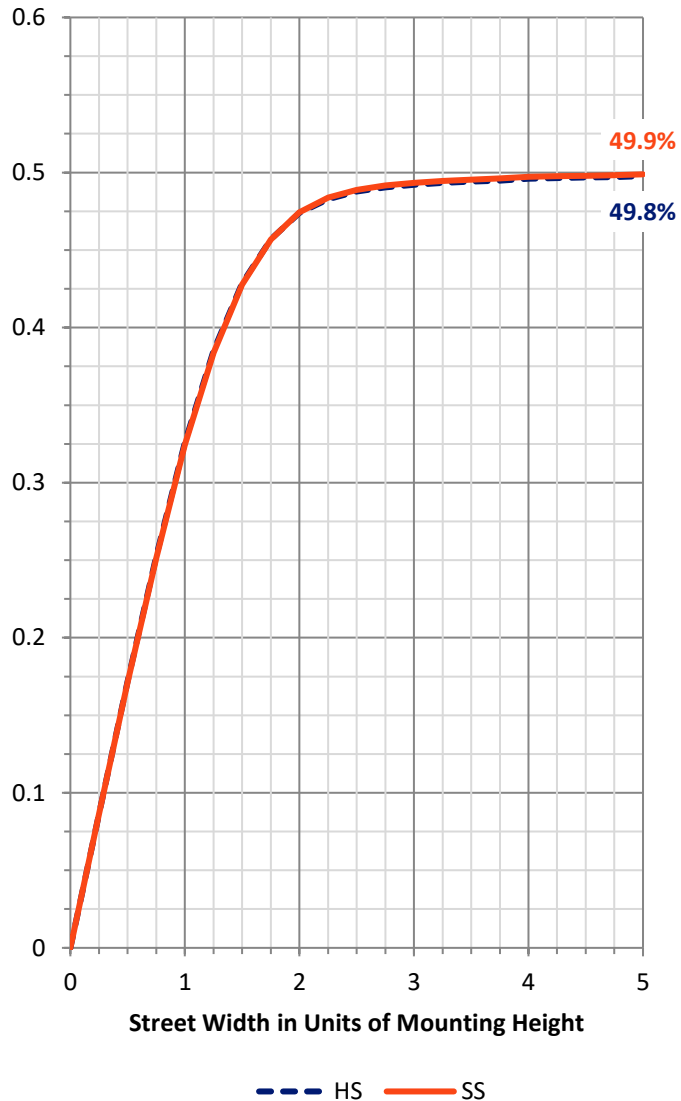
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9879.0   | 0.0    | 9879.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9879.0   | 0.0    | 9879.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19757.9  | 0.0    | 19757.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 207.3   | 1.0       |
| 10°-20°   | 683.8   | 3.5       |
| 20°-30°   | 1321.3  | 6.7       |
| 30°-40°   | 2231.1  | 11.3      |
| 40°-50°   | 3538.2  | 17.9      |
| 50°-60°   | 4737.3  | 24.0      |
| 60°-70°   | 4508.4  | 22.8      |
| 70°-80°   | 2352.5  | 11.9      |
| 80°-90°   | 178.1   | 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°    | 19757.9 | 100.0     |
| 0°-180°   | 19757.9 | 100.0     |

**Coefficient of Utilization**



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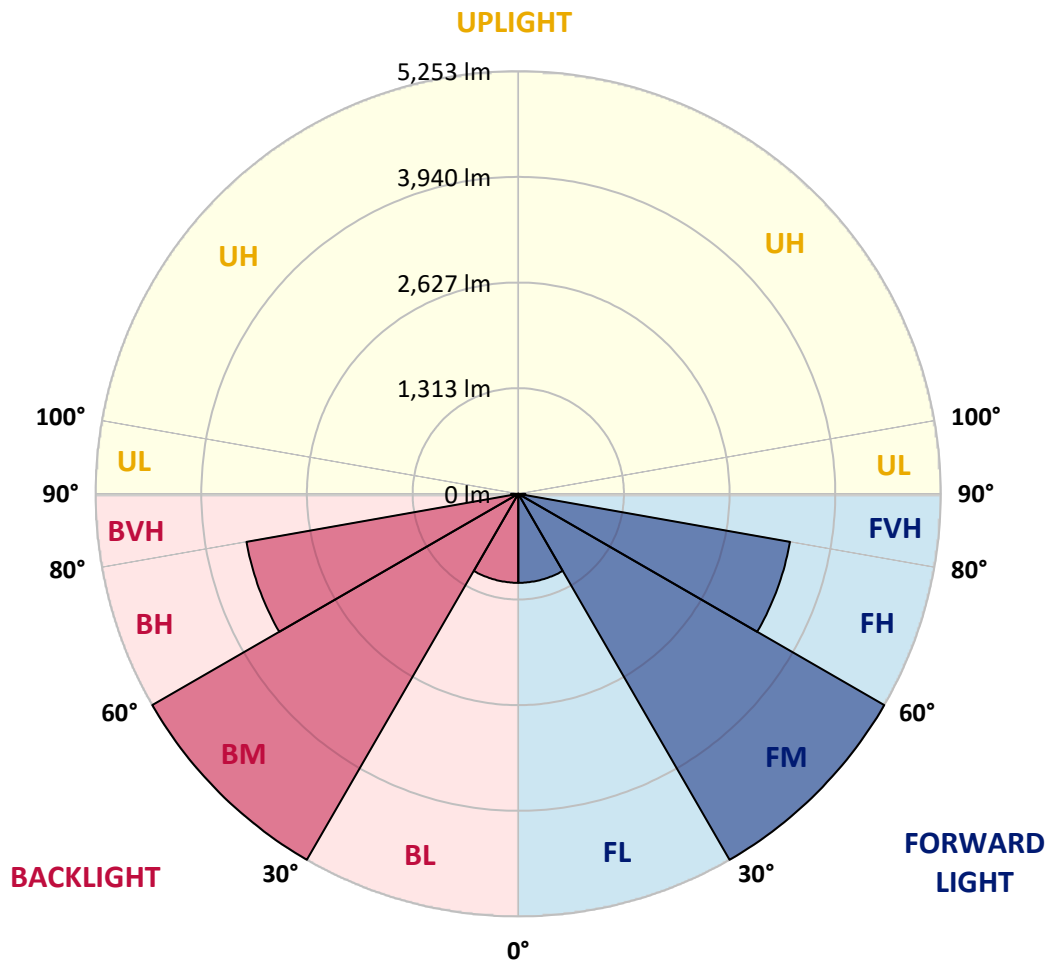
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1106.2 | 5.6       |                         |      |         |
| FM (30°-60°)   | 5253.3 | 26.6      |                         |      |         |
| FH (60°-80°)   | 3430.4 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 89.0   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 1106.2 | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 5253.3 | 26.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 3430.4 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 89.0   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2116.4 | 2116.4 | 2116.4 | 2116.4 | 2116.4 | 2116.4 | 2116.4 | 2116.4 | 2116.4 | 2116.4 | 2116.4 |
| 2.5°  | 2116.4 | 2114.4 | 2116.4 | 2118.5 | 2117.4 | 2117.4 | 2122.5 | 2125.5 | 2131.6 | 2130.6 | 2129.5 |
| 5°    | 2102.3 | 2101.2 | 2109.3 | 2118.5 | 2125.5 | 2137.6 | 2152.7 | 2163.9 | 2177.9 | 2181.0 | 2181.0 |
| 7.5°  | 2095.2 | 2092.2 | 2106.4 | 2122.5 | 2144.7 | 2174.9 | 2204.2 | 2234.5 | 2258.7 | 2266.7 | 2268.7 |
| 10°   | 2100.3 | 2101.2 | 2120.4 | 2150.8 | 2186.0 | 2228.4 | 2269.8 | 2321.2 | 2355.6 | 2363.5 | 2371.6 |
| 12.5° | 2123.5 | 2121.4 | 2153.7 | 2202.2 | 2250.6 | 2304.1 | 2352.5 | 2409.0 | 2446.3 | 2465.4 | 2473.5 |
| 15°   | 2165.8 | 2161.8 | 2207.2 | 2278.9 | 2349.4 | 2412.0 | 2451.4 | 2504.8 | 2548.1 | 2572.4 | 2581.5 |
| 17.5° | 2216.3 | 2218.3 | 2277.9 | 2370.6 | 2463.5 | 2534.1 | 2571.4 | 2598.6 | 2631.9 | 2653.1 | 2663.2 |
| 20°   | 2305.0 | 2309.1 | 2375.6 | 2485.6 | 2591.6 | 2672.3 | 2702.5 | 2692.5 | 2701.5 | 2717.7 | 2729.8 |
| 22.5° | 2424.1 | 2426.1 | 2500.8 | 2619.8 | 2730.8 | 2819.6 | 2839.8 | 2798.4 | 2773.1 | 2784.2 | 2792.3 |
| 25°   | 2562.3 | 2575.4 | 2650.0 | 2772.1 | 2886.1 | 2970.9 | 2980.0 | 2917.4 | 2854.8 | 2857.9 | 2862.9 |
| 27.5° | 2730.8 | 2742.9 | 2818.5 | 2939.6 | 3055.6 | 3129.2 | 3128.2 | 3044.5 | 2952.7 | 2929.6 | 2936.5 |
| 30°   | 2913.4 | 2926.5 | 3004.2 | 3129.2 | 3237.2 | 3301.7 | 3287.6 | 3187.7 | 3056.7 | 3013.2 | 3018.3 |
| 32.5° | 3130.2 | 3138.3 | 3217.0 | 3342.1 | 3442.0 | 3493.4 | 3464.2 | 3341.1 | 3177.7 | 3128.2 | 3140.3 |
| 35°   | 3392.5 | 3404.6 | 3463.2 | 3581.1 | 3669.0 | 3711.3 | 3661.9 | 3516.6 | 3333.0 | 3277.5 | 3285.6 |
| 37.5° | 3692.2 | 3684.1 | 3750.7 | 3855.5 | 3928.2 | 3954.4 | 3886.8 | 3714.3 | 3510.5 | 3445.0 | 3457.1 |
| 40°   | 4004.9 | 4000.8 | 4073.5 | 4174.3 | 4213.7 | 4229.9 | 4129.9 | 3941.3 | 3715.3 | 3644.7 | 3668.0 |
| 42.5° | 4288.3 | 4285.3 | 4383.2 | 4495.1 | 4542.6 | 4524.3 | 4398.3 | 4182.4 | 3952.4 | 3871.7 | 3891.9 |
| 45°   | 4515.3 | 4511.2 | 4631.4 | 4788.7 | 4881.5 | 4851.2 | 4681.8 | 4448.7 | 4192.5 | 4108.8 | 4128.0 |
| 47.5° | 4689.8 | 4691.8 | 4821.0 | 5015.6 | 5178.1 | 5189.2 | 4971.2 | 4720.1 | 4456.8 | 4362.0 | 4390.2 |
| 50°   | 4816.0 | 4822.0 | 4960.2 | 5176.0 | 5398.0 | 5495.8 | 5266.9 | 4998.5 | 4730.2 | 4623.3 | 4655.5 |
| 52.5° | 4847.2 | 4858.3 | 5024.8 | 5277.9 | 5539.2 | 5725.9 | 5567.5 | 5265.8 | 4989.4 | 4887.5 | 4913.7 |
| 55°   | 4680.8 | 4702.9 | 4913.7 | 5269.8 | 5626.0 | 5877.1 | 5831.7 | 5537.3 | 5250.7 | 5145.8 | 5175.0 |
| 57.5° | 4298.4 | 4329.7 | 4575.8 | 5040.8 | 5606.9 | 5981.1 | 6036.5 | 5797.5 | 5511.9 | 5411.1 | 5434.3 |
| 60°   | 3762.8 | 3800.1 | 4036.1 | 4543.5 | 5336.5 | 6019.4 | 6180.9 | 6050.7 | 5752.1 | 5654.2 | 5675.4 |
| 62.5° | 2954.8 | 3003.1 | 3285.6 | 3880.8 | 4765.5 | 5840.9 | 6303.9 | 6279.7 | 5968.0 | 5845.9 | 5860.0 |
| 65°   | 1895.5 | 1947.0 | 2244.5 | 2947.7 | 4003.9 | 5294.1 | 6342.2 | 6502.6 | 6195.9 | 6025.5 | 6046.7 |
| 67.5° | 1143.0 | 1166.1 | 1313.4 | 1786.6 | 2926.5 | 4469.9 | 6017.4 | 6749.7 | 6462.2 | 6250.4 | 6266.5 |
| 70°   | 731.3  | 744.5  | 832.2  | 1049.1 | 1654.5 | 3261.3 | 5212.3 | 6796.2 | 6785.1 | 6481.4 | 6479.4 |
| 72.5° | 496.3  | 500.4  | 523.6  | 621.5  | 936.1  | 1853.1 | 3844.5 | 6152.6 | 6986.8 | 6779.0 | 6746.8 |
| 75°   | 363.2  | 385.4  | 422.7  | 439.8  | 531.7  | 926.1  | 2203.1 | 4322.6 | 5888.2 | 5979.0 | 5759.2 |
| 77.5° | 270.4  | 271.3  | 322.8  | 343.0  | 379.4  | 493.3  | 932.1  | 2413.1 | 3655.9 | 3838.4 | 3423.8 |
| 80°   | 229.0  | 216.9  | 215.9  | 276.4  | 285.5  | 307.7  | 416.7  | 833.2  | 1309.4 | 793.9  | 600.2  |
| 82.5° | 190.6  | 177.5  | 160.4  | 215.9  | 194.6  | 188.6  | 180.6  | 339.0  | 416.7  | 204.8  | 174.6  |
| 85°   | 133.1  | 127.1  | 121.1  | 141.2  | 111.0  | 94.8   | 86.7   | 158.4  | 175.5  | 86.7   | 76.7   |
| 87.5° | 57.5   | 59.6   | 60.6   | 62.5   | 46.4   | 33.3   | 33.3   | 44.4   | 44.4   | 34.3   | 25.2   |
| 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)