

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: P964090

Luminaire Tested: **NVN-SB3B-750-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964090  
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-SB3B-750-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

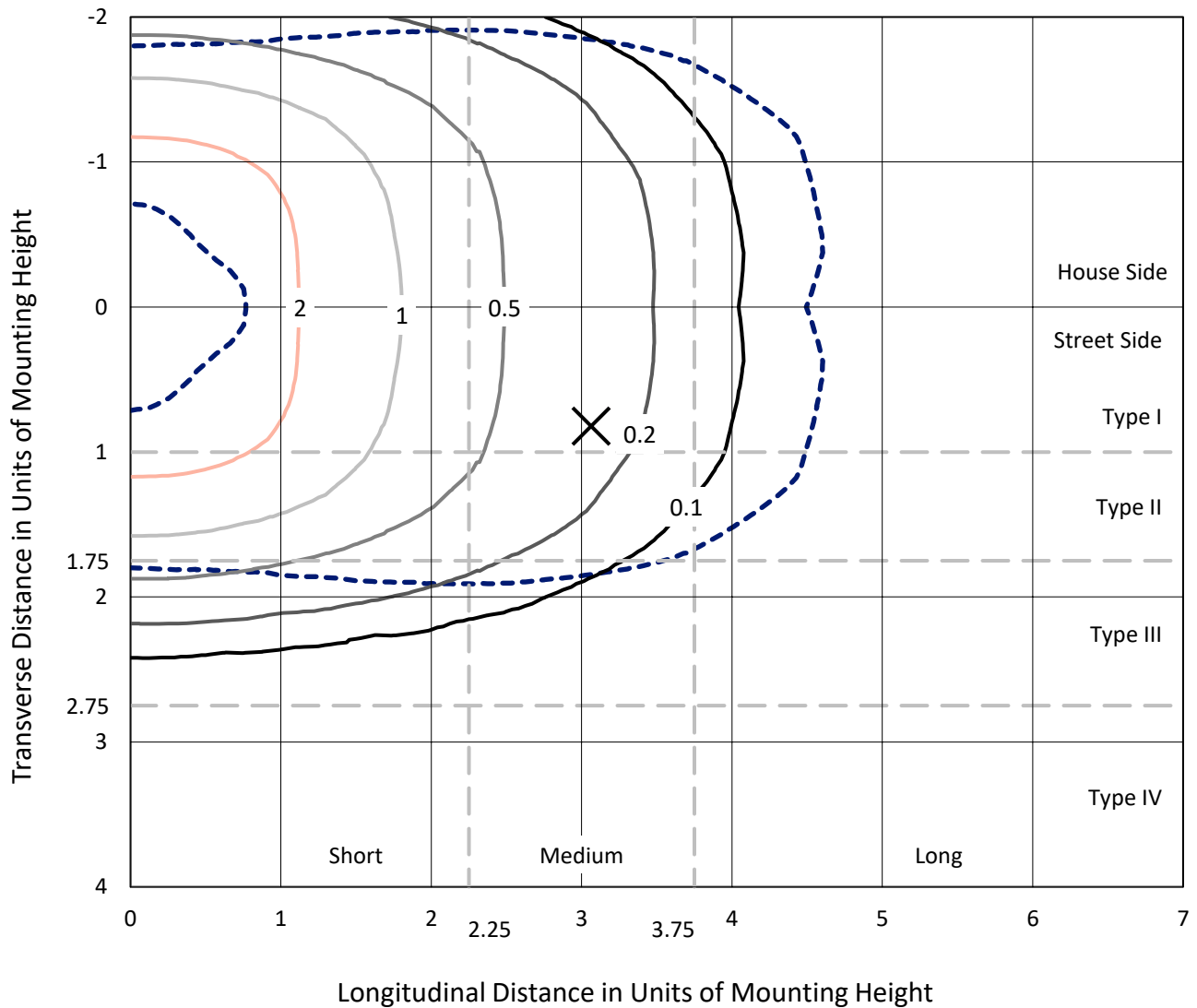
Lumens per Lamp: N/A  
Luminaire Lumens: 18866.1 lumens  
Efficiency: N/A  
Efficacy: 172.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): 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

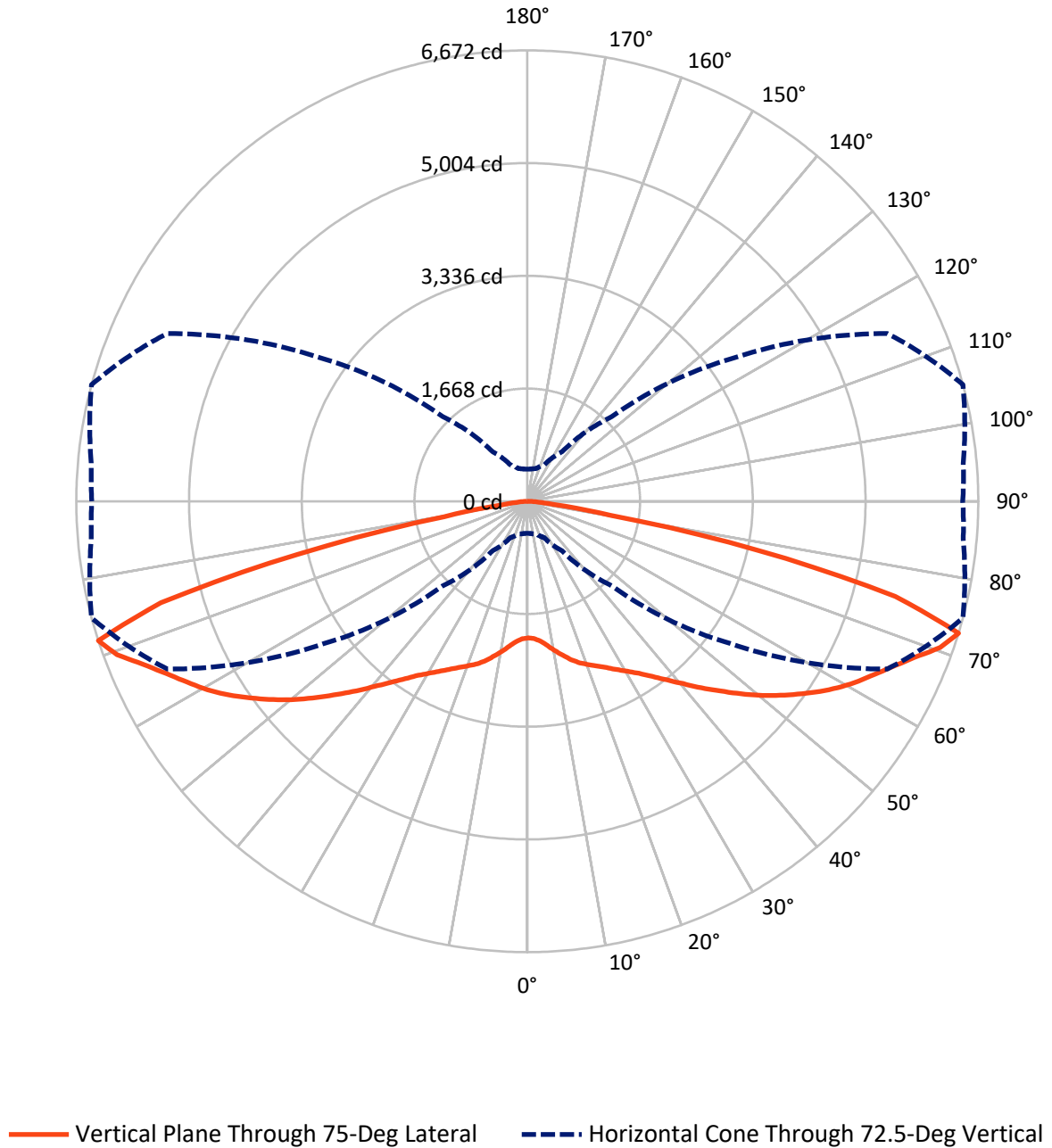
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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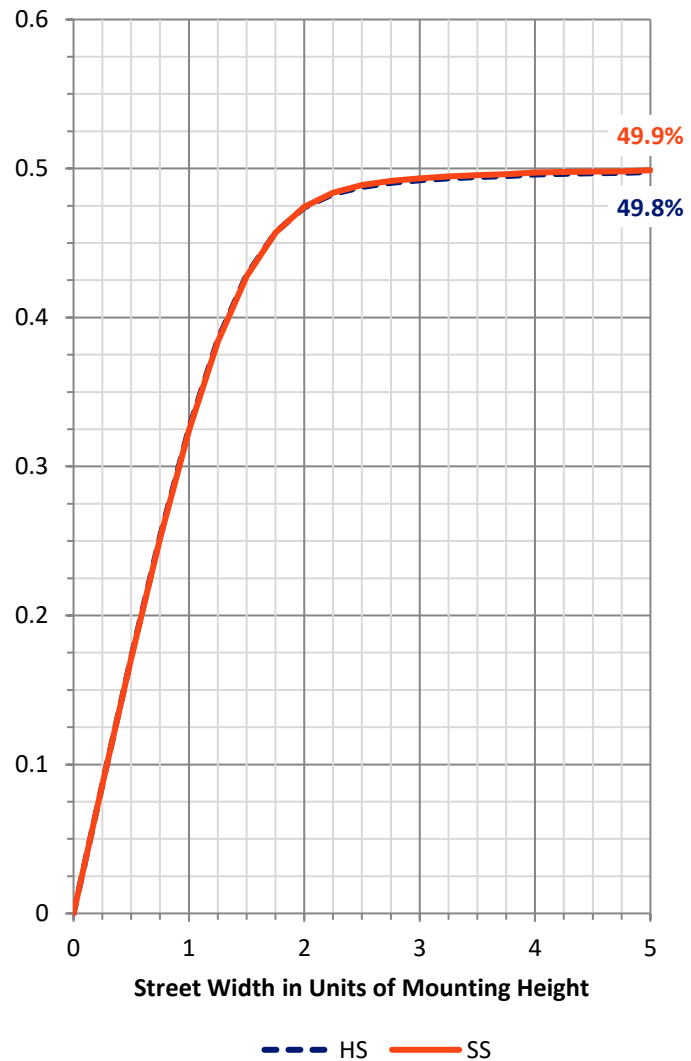
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9433.1   | 0.0    | 9433.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9433.1   | 0.0    | 9433.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18866.1  | 0.0    | 18866.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 198.0   | 1.0       |
| 10°-20°   | 652.9   | 3.5       |
| 20°-30°   | 1261.6  | 6.7       |
| 30°-40°   | 2130.4  | 11.3      |
| 40°-50°   | 3378.5  | 17.9      |
| 50°-60°   | 4523.4  | 24.0      |
| 60°-70°   | 4304.9  | 22.8      |
| 70°-80°   | 2246.3  | 11.9      |
| 80°-90°   | 170.0   | 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°    | 18866.1 | 100.0     |
| 0°-180°   | 18866.1 | 100.0     |

**Coefficient of Utilization**



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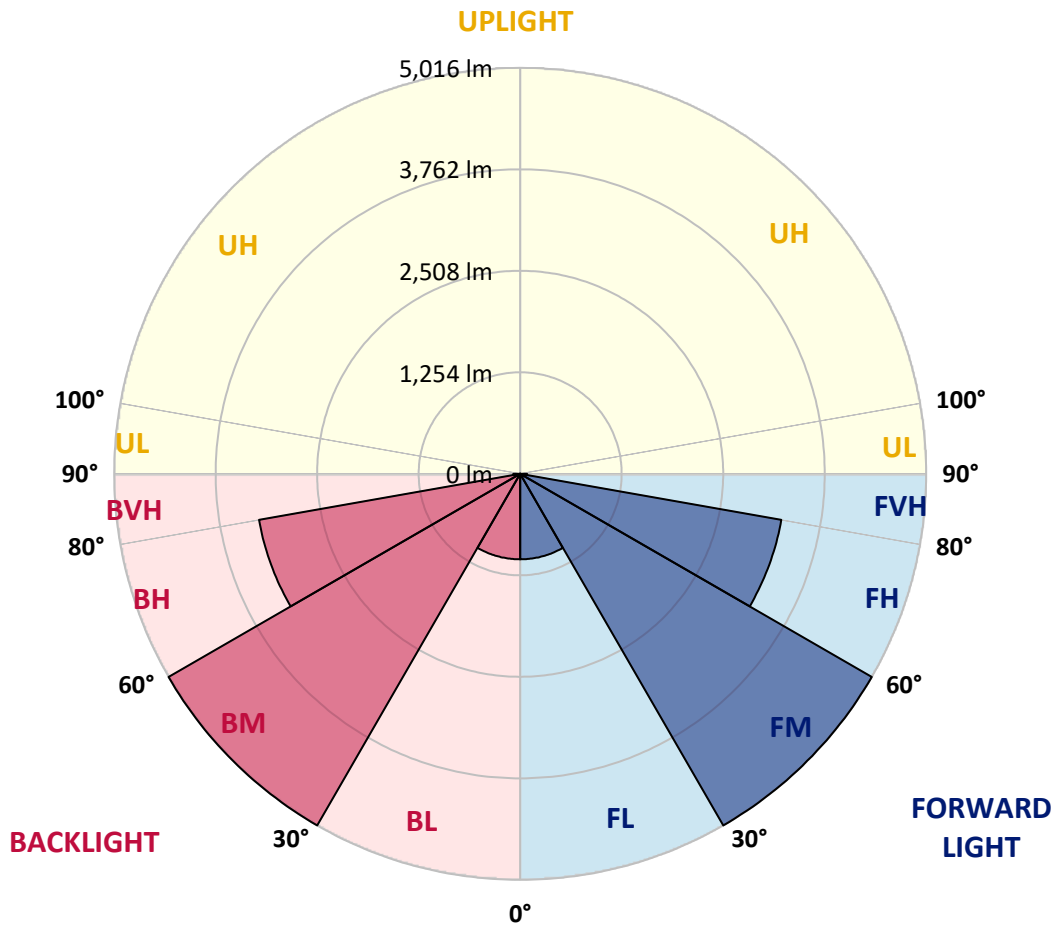
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1056.3 | 5.6       |                         |      |         |
| FM (30°-60°)   | 5016.2 | 26.6      |                         |      |         |
| FH (60°-80°)   | 3275.6 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 85.0   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 1056.3 | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 5016.2 | 26.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 3275.6 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 85.0   | 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°    | 2020.9 | 2020.9 | 2020.9 | 2020.9 | 2020.9 | 2020.9 | 2020.9 | 2020.9 | 2020.9 | 2020.9 | 2020.9 |
| 2.5°  | 2020.9 | 2018.9 | 2020.9 | 2022.8 | 2021.9 | 2021.9 | 2026.7 | 2029.6 | 2035.3 | 2034.4 | 2033.4 |
| 5°    | 2007.5 | 2006.4 | 2014.1 | 2022.8 | 2029.6 | 2041.1 | 2055.5 | 2066.2 | 2079.6 | 2082.6 | 2082.6 |
| 7.5°  | 2000.7 | 1997.8 | 2011.3 | 2026.7 | 2047.8 | 2076.8 | 2104.7 | 2133.6 | 2156.7 | 2164.4 | 2166.3 |
| 10°   | 2005.5 | 2006.4 | 2024.8 | 2053.7 | 2087.4 | 2127.8 | 2167.4 | 2216.5 | 2249.2 | 2256.9 | 2264.6 |
| 12.5° | 2027.7 | 2025.7 | 2056.6 | 2102.8 | 2149.0 | 2200.1 | 2246.3 | 2300.2 | 2335.9 | 2354.2 | 2361.9 |
| 15°   | 2068.1 | 2064.2 | 2107.6 | 2176.0 | 2243.4 | 2303.2 | 2340.7 | 2391.7 | 2433.1 | 2456.3 | 2464.9 |
| 17.5° | 2116.2 | 2118.2 | 2175.0 | 2263.6 | 2352.3 | 2419.7 | 2455.3 | 2481.3 | 2513.1 | 2533.4 | 2543.0 |
| 20°   | 2201.0 | 2204.9 | 2268.4 | 2373.5 | 2474.6 | 2551.6 | 2580.5 | 2570.9 | 2579.6 | 2595.0 | 2606.6 |
| 22.5° | 2314.7 | 2316.6 | 2387.9 | 2501.6 | 2607.5 | 2692.3 | 2711.5 | 2672.1 | 2648.0 | 2658.5 | 2666.2 |
| 25°   | 2446.7 | 2459.2 | 2530.4 | 2647.1 | 2755.8 | 2836.8 | 2845.4 | 2785.7 | 2726.0 | 2728.9 | 2733.7 |
| 27.5° | 2607.5 | 2619.1 | 2691.3 | 2807.0 | 2917.7 | 2988.0 | 2987.1 | 2907.1 | 2819.5 | 2797.3 | 2804.0 |
| 30°   | 2781.8 | 2794.4 | 2868.6 | 2988.0 | 3091.1 | 3152.7 | 3139.3 | 3043.8 | 2918.7 | 2877.3 | 2882.1 |
| 32.5° | 2989.0 | 2996.7 | 3071.8 | 3191.2 | 3286.7 | 3335.8 | 3307.8 | 3190.3 | 3034.2 | 2987.1 | 2998.6 |
| 35°   | 3239.4 | 3251.0 | 3306.9 | 3419.5 | 3503.3 | 3543.8 | 3496.6 | 3357.9 | 3182.6 | 3129.6 | 3137.3 |
| 37.5° | 3525.5 | 3517.8 | 3581.4 | 3681.6 | 3750.9 | 3776.0 | 3711.4 | 3546.7 | 3352.2 | 3289.5 | 3301.1 |
| 40°   | 3824.1 | 3820.3 | 3889.6 | 3985.9 | 4023.5 | 4038.9 | 3943.6 | 3763.4 | 3547.6 | 3480.2 | 3502.4 |
| 42.5° | 4094.8 | 4091.9 | 4185.3 | 4292.3 | 4337.5 | 4320.2 | 4199.7 | 3993.6 | 3774.0 | 3697.0 | 3716.2 |
| 45°   | 4311.6 | 4307.7 | 4422.3 | 4572.5 | 4661.2 | 4632.3 | 4470.4 | 4247.9 | 4003.2 | 3923.3 | 3941.6 |
| 47.5° | 4478.1 | 4480.1 | 4603.4 | 4789.3 | 4944.4 | 4955.0 | 4746.9 | 4507.0 | 4255.7 | 4165.1 | 4192.0 |
| 50°   | 4598.6 | 4604.3 | 4736.3 | 4942.4 | 5154.3 | 5247.8 | 5029.2 | 4772.9 | 4516.7 | 4414.6 | 4445.4 |
| 52.5° | 4628.4 | 4639.0 | 4797.9 | 5039.7 | 5289.2 | 5467.5 | 5316.2 | 5028.1 | 4764.2 | 4666.9 | 4692.0 |
| 55°   | 4469.5 | 4490.7 | 4692.0 | 5032.0 | 5372.0 | 5611.9 | 5568.5 | 5287.3 | 5013.7 | 4913.5 | 4941.5 |
| 57.5° | 4104.4 | 4134.2 | 4369.3 | 4813.4 | 5353.8 | 5711.1 | 5764.1 | 5535.8 | 5263.2 | 5166.9 | 5189.1 |
| 60°   | 3592.9 | 3628.6 | 3854.0 | 4338.5 | 5095.6 | 5747.7 | 5901.8 | 5777.6 | 5492.5 | 5399.0 | 5419.3 |
| 62.5° | 2821.4 | 2867.6 | 3137.3 | 3705.6 | 4550.4 | 5577.2 | 6019.3 | 5996.2 | 5698.6 | 5582.0 | 5595.6 |
| 65°   | 1809.9 | 1859.0 | 2143.3 | 2814.6 | 3823.1 | 5055.1 | 6056.0 | 6209.1 | 5916.3 | 5753.5 | 5773.7 |
| 67.5° | 1091.3 | 1113.6 | 1254.2 | 1705.9 | 2794.4 | 4268.2 | 5745.8 | 6445.1 | 6170.6 | 5968.3 | 5983.7 |
| 70°   | 698.3  | 710.8  | 794.7  | 1001.7 | 1579.7 | 3114.2 | 4977.1 | 6489.4 | 6478.8 | 6188.8 | 6187.0 |
| 72.5° | 474.0  | 477.8  | 499.9  | 593.4  | 893.9  | 1769.5 | 3670.9 | 5874.9 | 6671.5 | 6473.1 | 6442.2 |
| 75°   | 346.8  | 368.0  | 403.6  | 419.9  | 507.7  | 884.3  | 2103.7 | 4127.6 | 5622.5 | 5709.1 | 5499.2 |
| 77.5° | 258.2  | 259.1  | 308.2  | 327.5  | 362.1  | 471.0  | 890.0  | 2304.1 | 3490.8 | 3665.2 | 3269.2 |
| 80°   | 218.6  | 207.0  | 206.1  | 263.9  | 272.6  | 293.8  | 397.8  | 795.6  | 1250.3 | 758.1  | 573.2  |
| 82.5° | 182.0  | 169.5  | 153.1  | 206.1  | 185.9  | 180.1  | 172.4  | 323.7  | 397.8  | 195.6  | 166.7  |
| 85°   | 127.1  | 121.4  | 115.6  | 134.9  | 106.0  | 90.5   | 82.8   | 151.2  | 167.6  | 82.8   | 73.2   |
| 87.5° | 54.9   | 56.8   | 57.8   | 59.8   | 44.3   | 31.8   | 31.8   | 42.3   | 42.3   | 32.8   | 24.1   |
| 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)