

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: P965573

Luminaire Tested: **NVN-SB4A-730-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-730-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19298.7 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

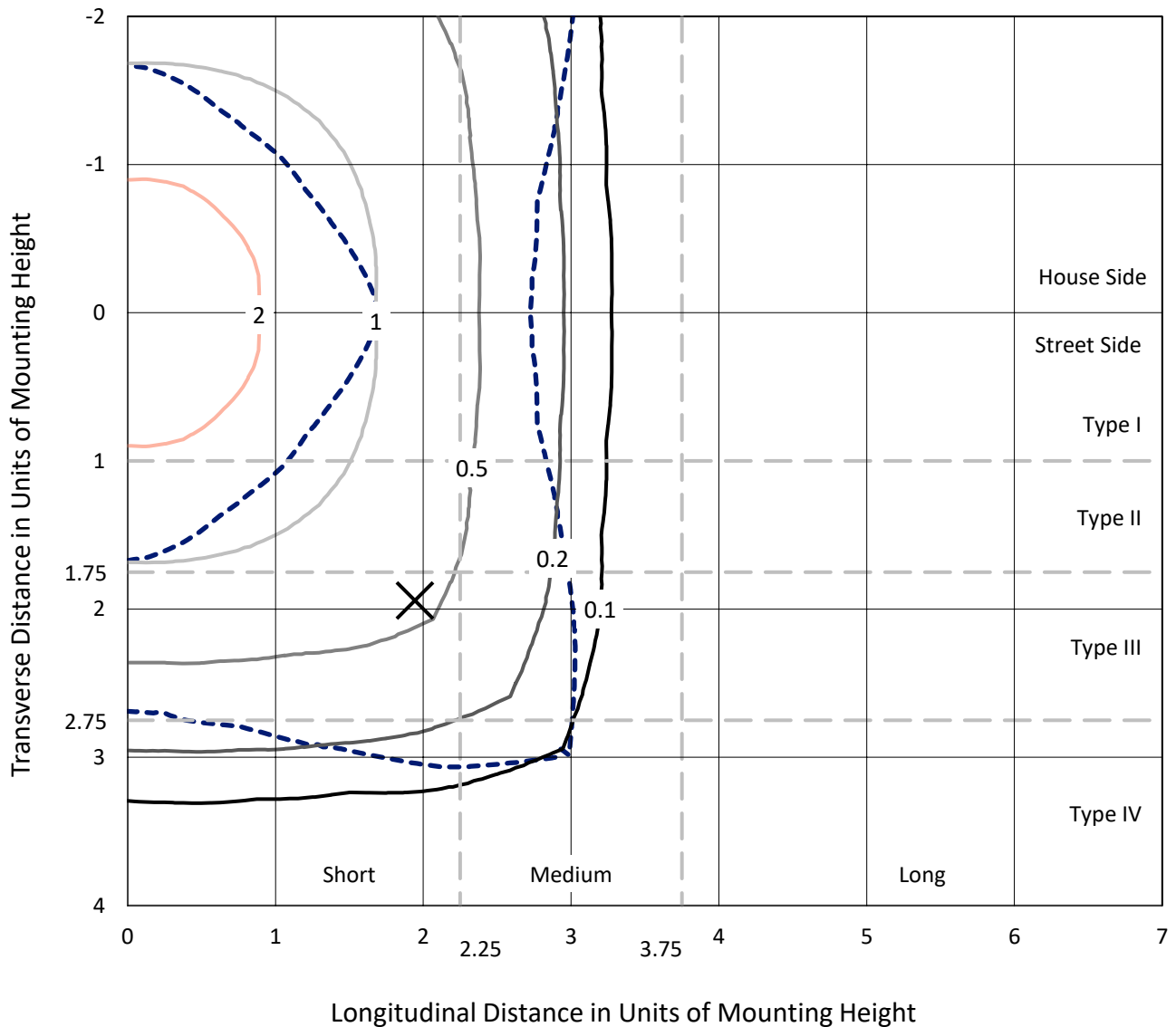
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

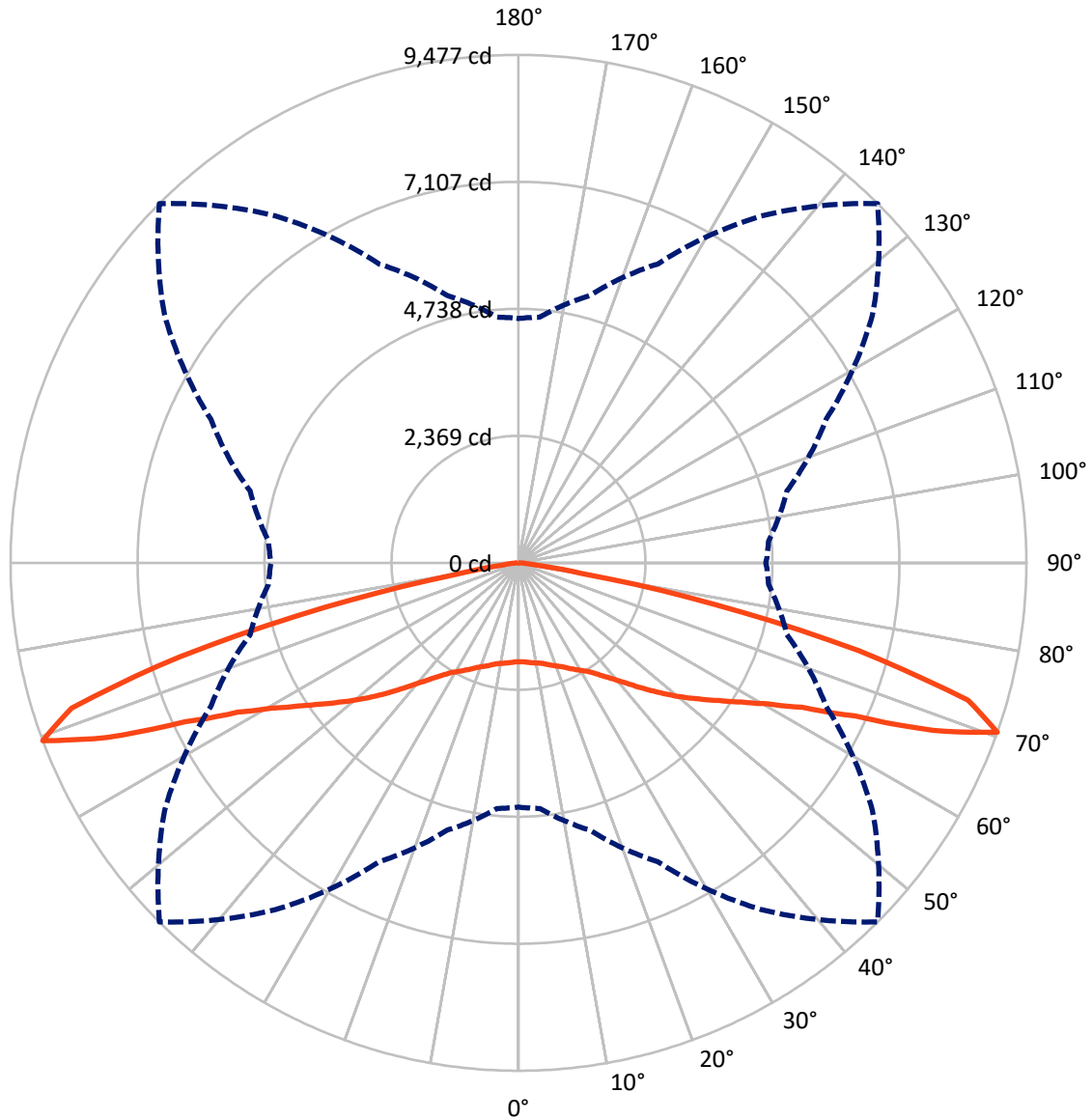
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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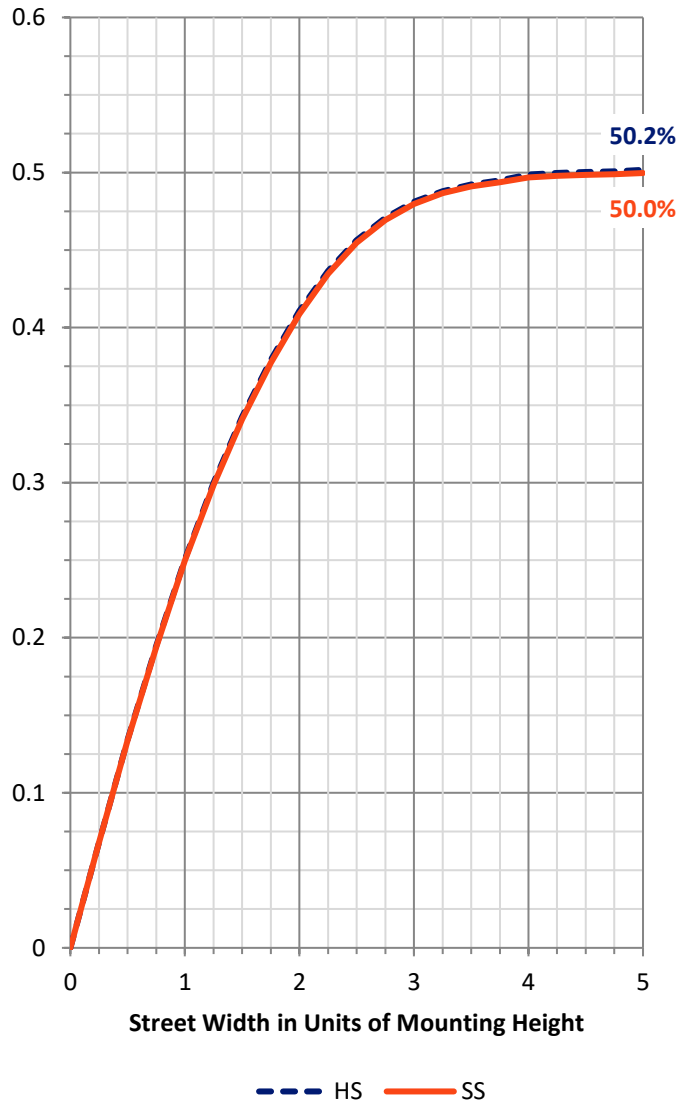
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9649.3 | 0.0 | 9649.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9649.3 | 0.0 | 9649.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19298.7 | 0.0 | 19298.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 179.6 | 0.9 |
| 10°-20° | 556.9 | 2.9 |
| 20°-30° | 995.2 | 5.2 |
| 30°-40° | 1613.3 | 8.4 |
| 40°-50° | 2627.8 | 13.6 |
| 50°-60° | 4006.4 | 20.8 |
| 60°-70° | 5960.3 | 30.9 |
| 70°-80° | 3248.6 | 16.8 |
| 80°-90° | 110.6 | 0.6 |
| 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° | 19298.7 | 100.0 |
| 0°-180° | 19298.7 | 100.0 |

Coefficient of Utilization



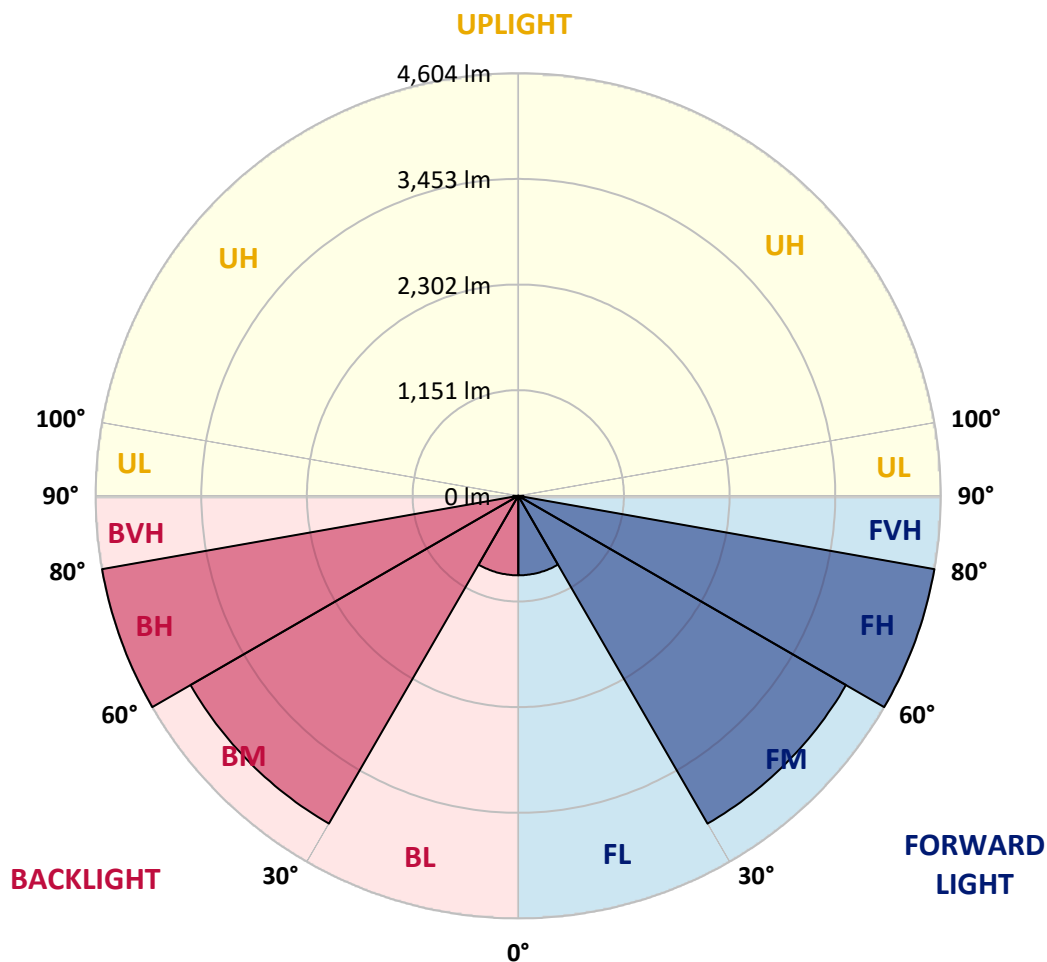
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 CATALOG NUMBER: NVN-SB4A-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 865.9 | 4.5 | | | |
| FM (30°-60°) | 4123.7 | 21.4 | | | |
| FH (60°-80°) | 4604.4 | 23.9 | | | G2/5000 |
| FVH (80°-90°) | 55.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 865.9 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 4123.7 | 21.4 | B3/5000 | | |
| BH (60°-80°) | 4604.4 | 23.9 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 55.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1848.6 | 1848.6 | 1848.6 | 1848.6 | 1848.6 | 1848.6 | 1848.6 | 1848.6 | 1848.6 | 1848.6 | 1848.6 |
| 2.5° | 1857.3 | 1859.2 | 1855.4 | 1853.5 | 1851.6 | 1848.6 | 1849.6 | 1854.4 | 1858.3 | 1857.3 | 1858.3 |
| 5° | 1872.9 | 1874.7 | 1871.9 | 1870.9 | 1867.0 | 1866.0 | 1866.0 | 1870.9 | 1873.8 | 1871.9 | 1872.9 |
| 7.5° | 1890.3 | 1893.2 | 1888.4 | 1887.3 | 1885.4 | 1883.5 | 1882.5 | 1887.3 | 1890.3 | 1890.3 | 1890.3 |
| 10° | 1906.7 | 1909.7 | 1905.8 | 1902.9 | 1901.0 | 1901.0 | 1899.0 | 1902.9 | 1907.7 | 1906.7 | 1906.7 |
| 12.5° | 1924.2 | 1926.1 | 1922.3 | 1920.3 | 1920.3 | 1923.2 | 1920.3 | 1922.3 | 1926.1 | 1924.2 | 1923.2 |
| 15° | 1945.6 | 1946.5 | 1945.6 | 1948.4 | 1953.2 | 1963.0 | 1954.3 | 1952.3 | 1954.3 | 1949.3 | 1949.3 |
| 17.5° | 1974.6 | 1976.5 | 1980.4 | 1987.2 | 1993.9 | 2011.4 | 1995.9 | 1991.1 | 1991.1 | 1981.3 | 1981.3 |
| 20° | 2010.4 | 2013.3 | 2019.1 | 2030.7 | 2039.4 | 2055.9 | 2040.5 | 2033.7 | 2030.7 | 2018.1 | 2018.1 |
| 22.5° | 2048.2 | 2053.1 | 2061.8 | 2077.3 | 2092.7 | 2108.3 | 2092.7 | 2081.2 | 2072.4 | 2055.9 | 2055.0 |
| 25° | 2091.8 | 2097.7 | 2111.2 | 2136.4 | 2157.7 | 2180.0 | 2161.5 | 2138.4 | 2120.8 | 2097.7 | 2096.6 |
| 27.5° | 2153.8 | 2160.6 | 2177.1 | 2208.1 | 2235.2 | 2254.6 | 2237.2 | 2207.1 | 2182.8 | 2154.8 | 2153.8 |
| 30° | 2241.1 | 2247.8 | 2267.2 | 2300.1 | 2318.5 | 2331.2 | 2319.5 | 2296.2 | 2267.2 | 2235.2 | 2235.2 |
| 32.5° | 2353.4 | 2362.1 | 2383.4 | 2414.5 | 2418.3 | 2420.2 | 2416.3 | 2404.8 | 2383.4 | 2344.7 | 2345.6 |
| 35° | 2495.9 | 2505.5 | 2529.7 | 2554.9 | 2551.0 | 2554.9 | 2549.1 | 2545.3 | 2529.7 | 2485.2 | 2485.2 |
| 37.5° | 2670.2 | 2681.8 | 2707.0 | 2726.4 | 2716.8 | 2711.8 | 2712.9 | 2713.8 | 2705.1 | 2655.7 | 2655.7 |
| 40° | 2872.8 | 2888.2 | 2906.6 | 2927.0 | 2910.5 | 2895.9 | 2905.7 | 2913.5 | 2905.7 | 2855.2 | 2855.2 |
| 42.5° | 3081.0 | 3103.3 | 3122.7 | 3151.8 | 3138.1 | 3119.8 | 3133.3 | 3142.0 | 3125.6 | 3071.3 | 3075.2 |
| 45° | 3312.6 | 3333.9 | 3359.1 | 3402.7 | 3393.0 | 3373.6 | 3393.0 | 3394.9 | 3366.8 | 3302.9 | 3309.7 |
| 47.5° | 3551.9 | 3574.2 | 3612.0 | 3670.1 | 3666.2 | 3644.9 | 3670.1 | 3656.6 | 3620.7 | 3544.1 | 3539.3 |
| 50° | 3778.7 | 3809.6 | 3867.7 | 3949.1 | 3956.9 | 3930.8 | 3964.6 | 3938.5 | 3878.4 | 3782.5 | 3780.5 |
| 52.5° | 3991.8 | 4024.7 | 4116.7 | 4227.2 | 4255.3 | 4221.4 | 4267.0 | 4221.4 | 4131.3 | 4008.3 | 3996.6 |
| 55° | 4215.6 | 4252.4 | 4361.9 | 4506.2 | 4562.5 | 4537.3 | 4579.9 | 4511.1 | 4383.2 | 4234.0 | 4213.7 |
| 57.5° | 4479.1 | 4501.4 | 4632.2 | 4803.7 | 4898.7 | 4904.4 | 4923.8 | 4807.6 | 4652.6 | 4482.9 | 4459.8 |
| 60° | 4764.9 | 4796.0 | 4938.3 | 5143.8 | 5293.9 | 5342.4 | 5322.0 | 5149.6 | 4969.4 | 4774.7 | 4743.6 |
| 62.5° | 5131.2 | 5165.1 | 5335.6 | 5581.7 | 5819.0 | 5939.3 | 5859.7 | 5609.8 | 5387.0 | 5153.5 | 5112.8 |
| 65° | 5434.4 | 5472.2 | 5780.3 | 6219.2 | 6651.3 | 6892.6 | 6693.0 | 6232.8 | 5831.6 | 5502.2 | 5448.0 |
| 67.5° | 5214.5 | 5261.0 | 5744.5 | 6550.6 | 7625.1 | 8344.9 | 7661.9 | 6649.4 | 5863.6 | 5417.0 | 5350.1 |
| 70° | 4557.6 | 4601.2 | 5165.1 | 6150.4 | 7899.3 | 9476.5 | 8064.0 | 6331.6 | 5183.5 | 4683.5 | 4616.7 |
| 72.5° | 3025.8 | 3166.3 | 3736.9 | 4919.0 | 7053.4 | 8769.3 | 7123.1 | 4819.1 | 3466.7 | 3019.0 | 2921.1 |
| 75° | 1003.8 | 1116.1 | 1505.6 | 2550.1 | 4724.2 | 6558.4 | 4497.5 | 2256.5 | 1192.7 | 858.4 | 811.9 |
| 77.5° | 252.9 | 291.6 | 402.1 | 729.6 | 1884.5 | 3734.1 | 1696.5 | 595.8 | 324.6 | 226.7 | 202.5 |
| 80° | 123.0 | 135.6 | 193.7 | 243.2 | 471.8 | 1186.8 | 442.8 | 228.7 | 153.0 | 118.2 | 108.5 |
| 82.5° | 67.9 | 68.8 | 109.5 | 137.6 | 175.4 | 307.1 | 182.1 | 133.7 | 88.1 | 71.6 | 71.6 |
| 85° | 41.6 | 40.7 | 58.1 | 73.6 | 73.6 | 109.5 | 87.2 | 73.6 | 50.4 | 44.6 | 46.5 |
| 87.5° | 16.5 | 16.5 | 21.3 | 23.3 | 20.4 | 28.1 | 22.2 | 24.2 | 19.4 | 18.4 | 19.4 |
| 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)