

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: P883312

Luminaire Tested: **NVN-SB3C-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19172 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

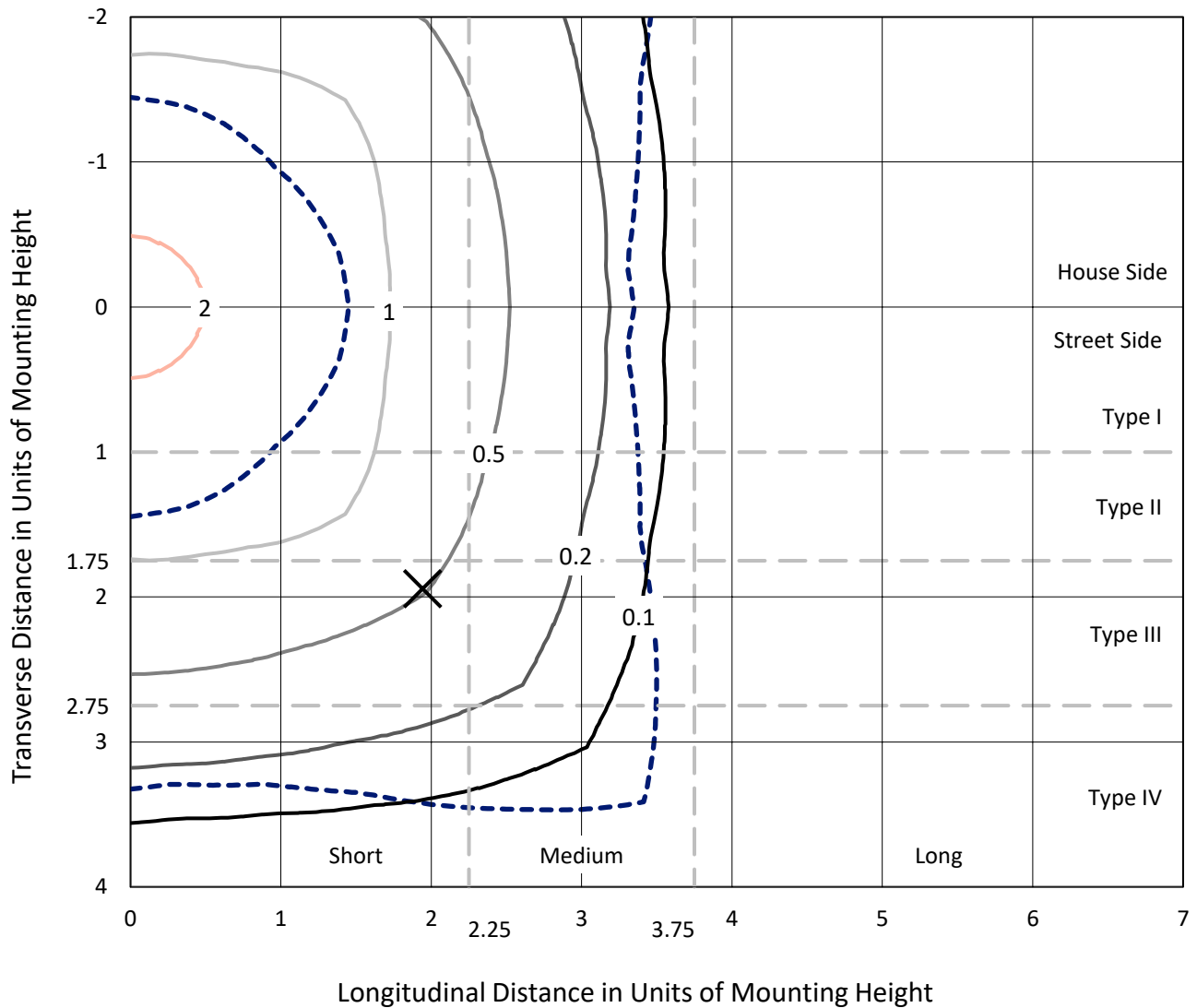
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

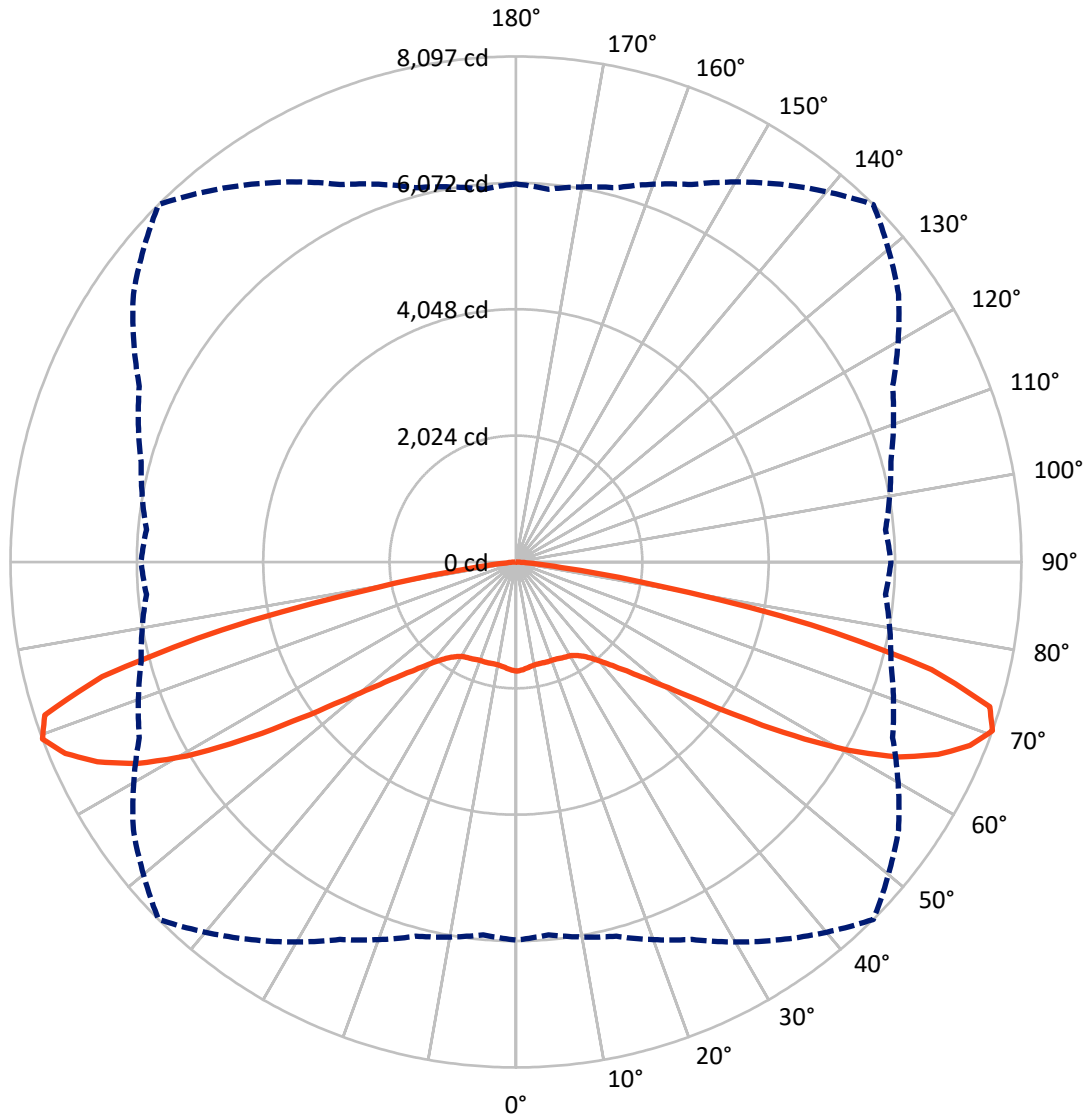
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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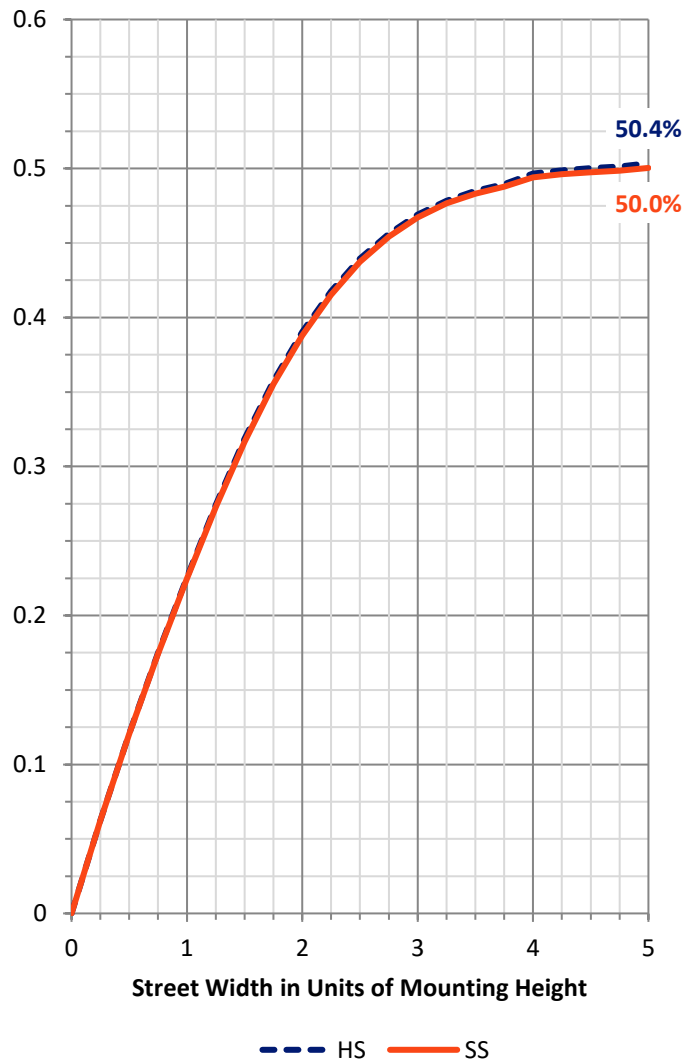
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9586.0 | 0.0 | 9586.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9586.0 | 0.0 | 9586.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19172.0 | 0.0 | 19172.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 162.7 | 0.8 |
| 10°-20° | 477.7 | 2.5 |
| 20°-30° | 794.9 | 4.1 |
| 30°-40° | 1202.2 | 6.3 |
| 40°-50° | 1997.8 | 10.4 |
| 50°-60° | 3769.7 | 19.7 |
| 60°-70° | 6365.3 | 33.2 |
| 70°-80° | 4182.6 | 21.8 |
| 80°-90° | 219.1 | 1.1 |
| 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° | 19172.0 | 100.0 |
| 0°-180° | 19172.0 | 100.0 |

Coefficient of Utilization



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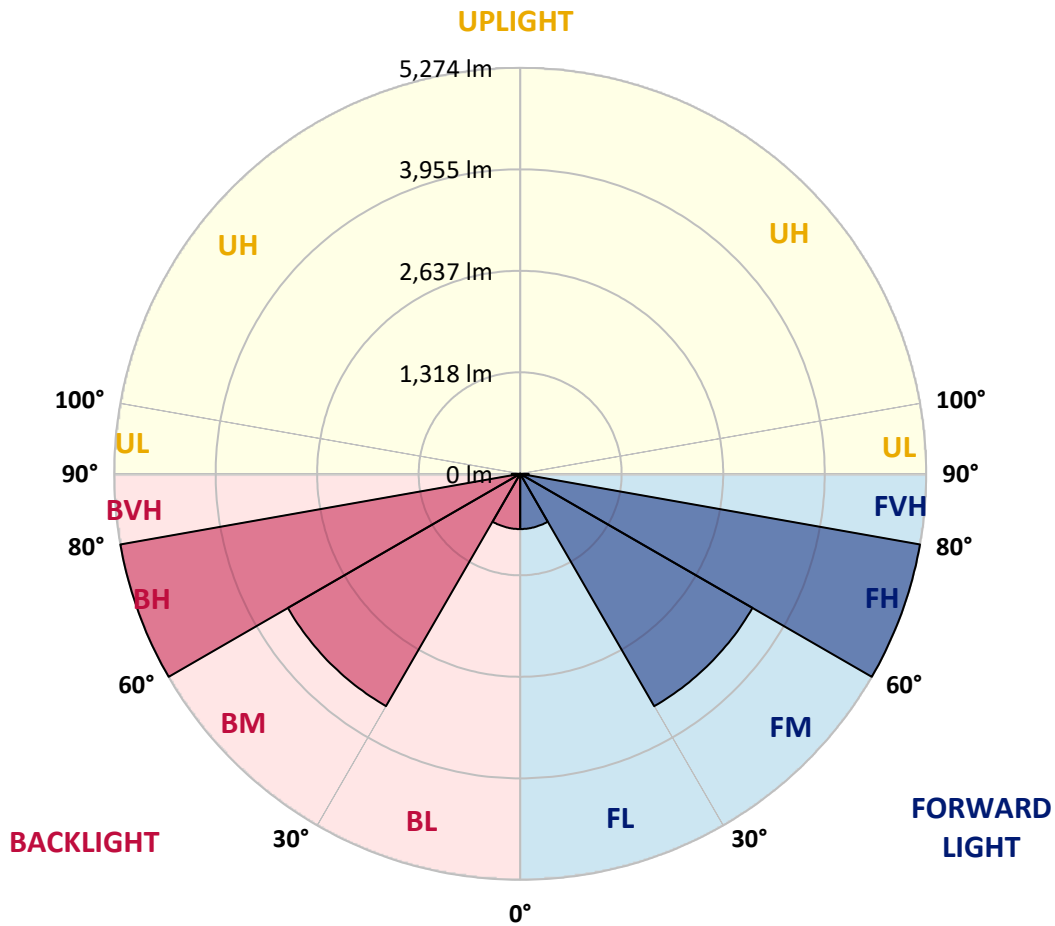
CATALOG NUMBER: NVN-SB3C-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 717.7 | 3.7 | | | |
| FM (30°-60°) | 3484.8 | 18.2 | | | |
| FH (60°-80°) | 5274.0 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 109.6 | 0.6 | | | G2/225 |
| BL (0°-30°) | 717.7 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3484.8 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5274.0 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 109.6 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1748.9 | 1748.9 | 1748.9 | 1748.9 | 1748.9 | 1748.9 | 1748.9 | 1748.9 | 1748.9 | 1748.9 | 1748.9 |
| 2.5° | 1737.9 | 1742.9 | 1740.9 | 1736.9 | 1736.9 | 1733.9 | 1736.9 | 1738.9 | 1741.9 | 1743.9 | 1742.9 |
| 5° | 1715.0 | 1719.0 | 1718.0 | 1715.0 | 1716.0 | 1713.0 | 1715.0 | 1718.0 | 1720.0 | 1721.0 | 1721.0 |
| 7.5° | 1695.1 | 1699.0 | 1697.1 | 1692.1 | 1692.1 | 1689.1 | 1690.1 | 1693.1 | 1696.1 | 1697.1 | 1697.1 |
| 10° | 1690.1 | 1694.1 | 1688.1 | 1680.1 | 1677.1 | 1673.1 | 1674.1 | 1677.1 | 1683.1 | 1686.1 | 1686.1 |
| 12.5° | 1692.1 | 1695.1 | 1689.1 | 1677.1 | 1674.1 | 1670.1 | 1670.1 | 1673.1 | 1681.1 | 1685.1 | 1686.1 |
| 15° | 1698.1 | 1701.0 | 1692.1 | 1679.1 | 1676.1 | 1673.1 | 1672.1 | 1676.1 | 1685.1 | 1692.1 | 1693.1 |
| 17.5° | 1709.0 | 1712.0 | 1698.1 | 1680.1 | 1676.1 | 1677.1 | 1676.1 | 1679.1 | 1693.1 | 1706.0 | 1706.0 |
| 20° | 1719.0 | 1721.0 | 1702.0 | 1680.1 | 1676.1 | 1677.1 | 1676.1 | 1682.1 | 1700.0 | 1718.0 | 1719.0 |
| 22.5° | 1722.0 | 1724.0 | 1706.0 | 1687.1 | 1684.1 | 1685.1 | 1684.1 | 1690.1 | 1707.0 | 1725.0 | 1725.0 |
| 25° | 1723.0 | 1726.0 | 1712.0 | 1697.1 | 1702.0 | 1704.0 | 1702.0 | 1703.0 | 1716.0 | 1731.9 | 1730.9 |
| 27.5° | 1737.9 | 1741.9 | 1728.9 | 1716.0 | 1719.0 | 1718.0 | 1721.0 | 1724.0 | 1733.9 | 1749.9 | 1745.9 |
| 30° | 1768.8 | 1771.8 | 1760.8 | 1747.9 | 1745.9 | 1738.9 | 1747.9 | 1757.8 | 1768.8 | 1782.8 | 1779.8 |
| 32.5° | 1819.6 | 1825.6 | 1811.7 | 1797.7 | 1788.7 | 1784.7 | 1791.7 | 1808.7 | 1823.6 | 1838.6 | 1832.6 |
| 35° | 1904.3 | 1908.3 | 1895.4 | 1869.4 | 1853.5 | 1853.5 | 1859.5 | 1881.4 | 1905.3 | 1924.3 | 1917.3 |
| 37.5° | 2023.9 | 2028.9 | 2006.0 | 1975.1 | 1951.2 | 1951.2 | 1959.1 | 1982.1 | 2017.9 | 2044.8 | 2034.9 |
| 40° | 2169.4 | 2176.4 | 2147.5 | 2115.6 | 2092.7 | 2088.7 | 2098.6 | 2124.6 | 2158.4 | 2192.3 | 2181.4 |
| 42.5° | 2344.8 | 2352.8 | 2314.9 | 2287.0 | 2269.0 | 2269.0 | 2274.0 | 2297.9 | 2328.8 | 2370.7 | 2367.7 |
| 45° | 2569.0 | 2583.0 | 2531.1 | 2503.2 | 2486.3 | 2490.3 | 2493.3 | 2514.2 | 2542.1 | 2589.9 | 2587.9 |
| 47.5° | 2836.1 | 2850.0 | 2795.2 | 2766.3 | 2763.3 | 2782.3 | 2770.3 | 2785.2 | 2800.2 | 2855.0 | 2839.1 |
| 50° | 3139.0 | 3162.9 | 3125.1 | 3123.1 | 3129.0 | 3163.9 | 3136.0 | 3144.0 | 3127.0 | 3161.9 | 3141.0 |
| 52.5° | 3509.7 | 3544.6 | 3537.6 | 3549.6 | 3616.3 | 3688.1 | 3624.3 | 3596.4 | 3532.6 | 3543.6 | 3506.7 |
| 55° | 3959.1 | 4011.9 | 4021.9 | 4093.7 | 4245.1 | 4391.6 | 4256.1 | 4143.5 | 4008.0 | 3983.0 | 3944.2 |
| 57.5° | 4470.3 | 4512.2 | 4560.0 | 4706.5 | 4989.5 | 5249.6 | 4989.5 | 4740.4 | 4527.1 | 4476.3 | 4440.4 |
| 60° | 5020.4 | 5072.2 | 5118.1 | 5334.3 | 5754.8 | 6120.6 | 5746.9 | 5351.3 | 5069.2 | 5000.5 | 4940.7 |
| 62.5° | 5611.3 | 5678.1 | 5710.0 | 5950.2 | 6440.4 | 6876.9 | 6447.4 | 5968.1 | 5655.2 | 5581.4 | 5521.7 |
| 65° | 6178.4 | 6233.2 | 6269.0 | 6525.1 | 6993.5 | 7431.0 | 7025.4 | 6553.0 | 6231.2 | 6134.5 | 6086.7 |
| 67.5° | 6442.4 | 6472.3 | 6560.0 | 6850.0 | 7344.3 | 7843.5 | 7428.0 | 6880.9 | 6521.2 | 6351.7 | 6353.7 |
| 70° | 6055.8 | 5995.0 | 6206.3 | 6670.6 | 7386.1 | 8096.6 | 7481.8 | 6656.7 | 6216.2 | 5941.2 | 6007.0 |
| 72.5° | 4679.6 | 4575.0 | 4941.7 | 5735.9 | 6907.8 | 7935.2 | 6955.6 | 5780.7 | 5169.9 | 4611.8 | 4750.4 |
| 75° | 2546.1 | 2427.5 | 2933.7 | 3938.2 | 5508.7 | 6877.9 | 5635.3 | 4050.8 | 3266.6 | 2527.1 | 2691.6 |
| 77.5° | 718.5 | 673.6 | 1082.2 | 1905.3 | 3313.4 | 4829.1 | 3440.9 | 1947.2 | 1283.5 | 761.3 | 846.0 |
| 80° | 220.2 | 213.3 | 289.0 | 574.0 | 1407.1 | 2312.9 | 1352.3 | 581.0 | 367.7 | 232.2 | 245.1 |
| 82.5° | 130.5 | 119.6 | 143.5 | 209.3 | 358.7 | 726.5 | 348.8 | 218.2 | 175.4 | 117.6 | 127.6 |
| 85° | 74.7 | 69.8 | 84.7 | 101.6 | 120.6 | 154.5 | 100.6 | 103.6 | 93.7 | 62.8 | 65.8 |
| 87.5° | 30.9 | 27.9 | 32.9 | 31.9 | 27.9 | 35.9 | 26.9 | 31.9 | 37.9 | 24.9 | 22.9 |
| 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)