

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: P962444

Luminaire Tested: **NVN-SB2C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15527.7 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

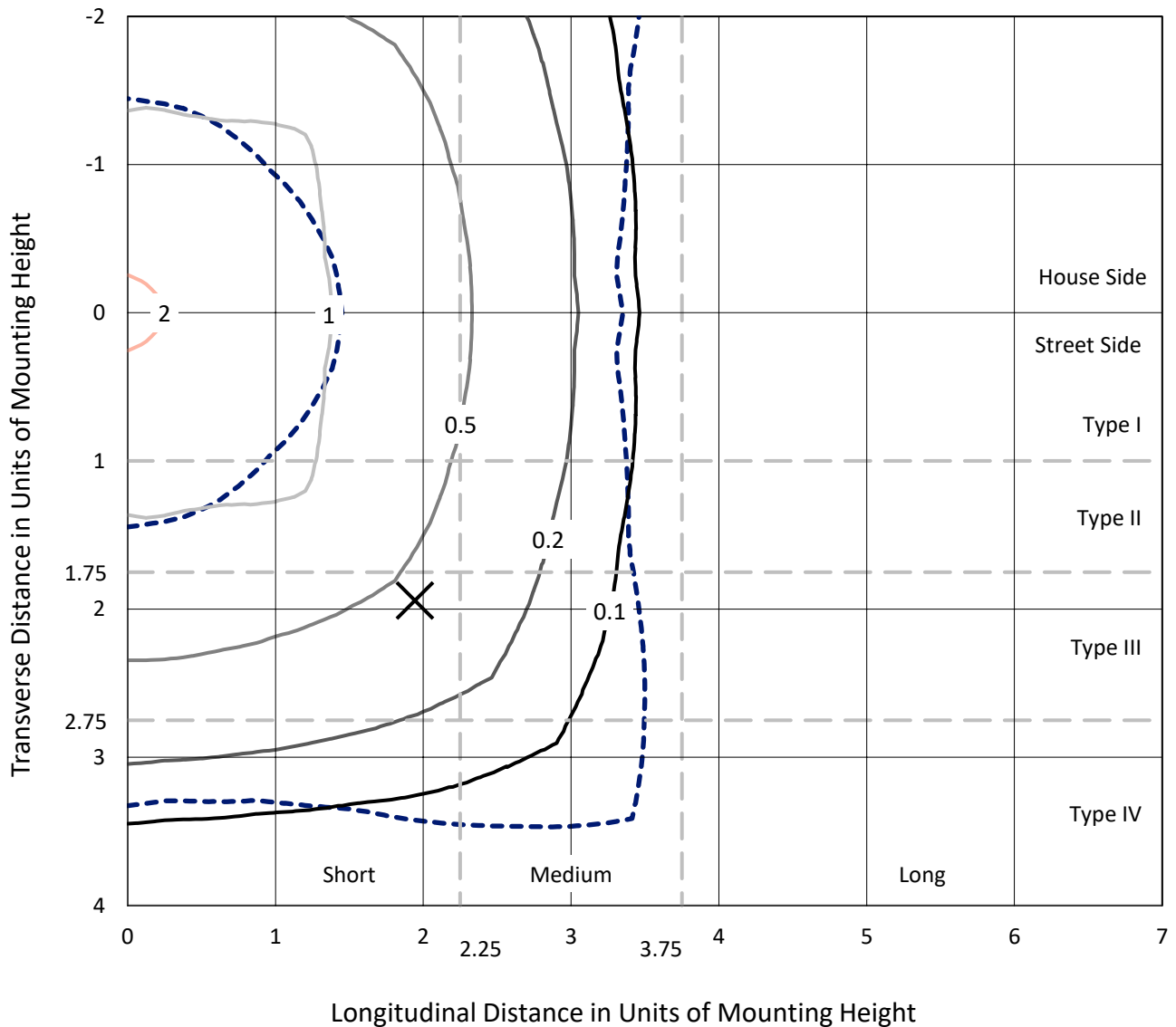
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

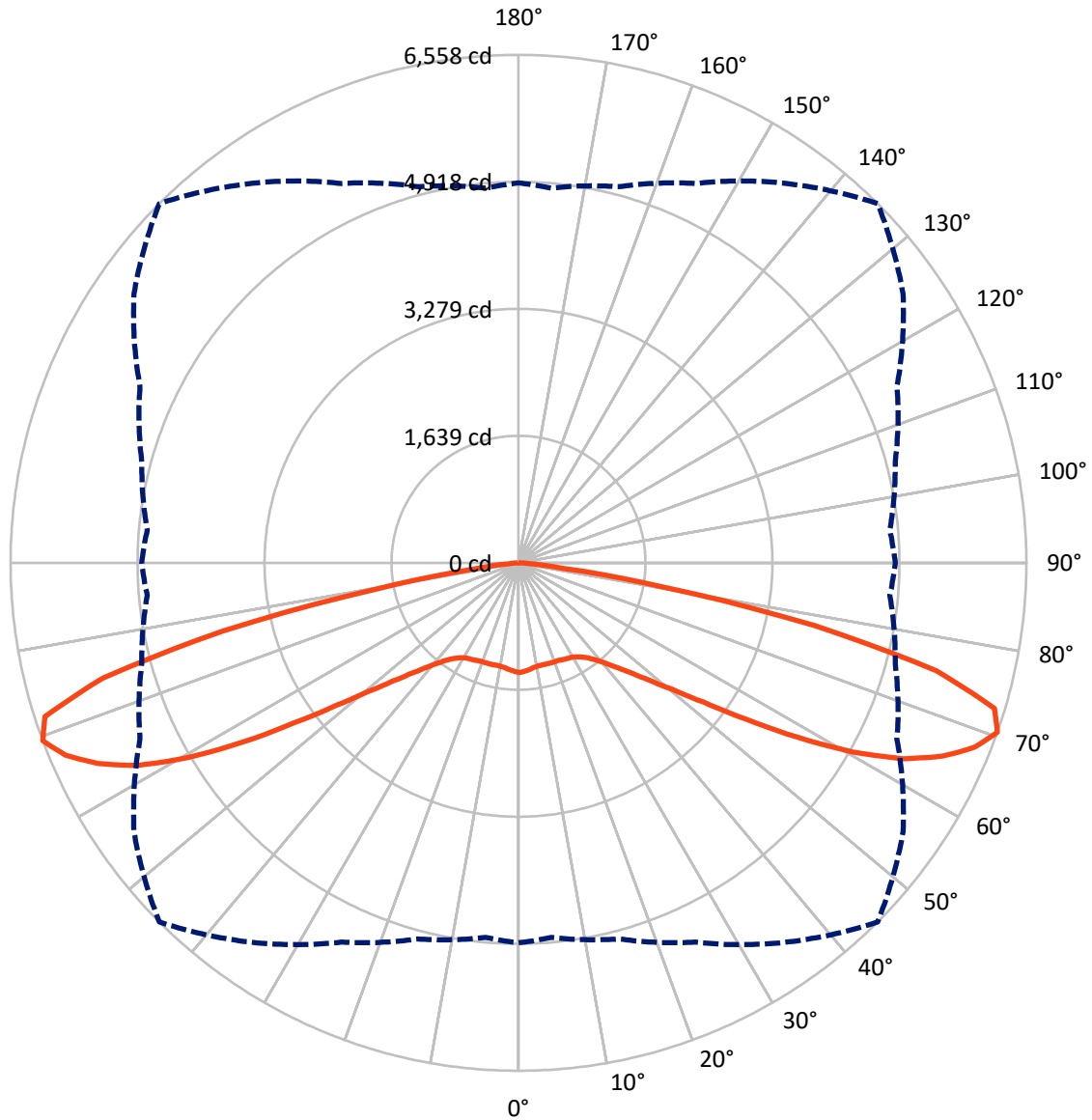
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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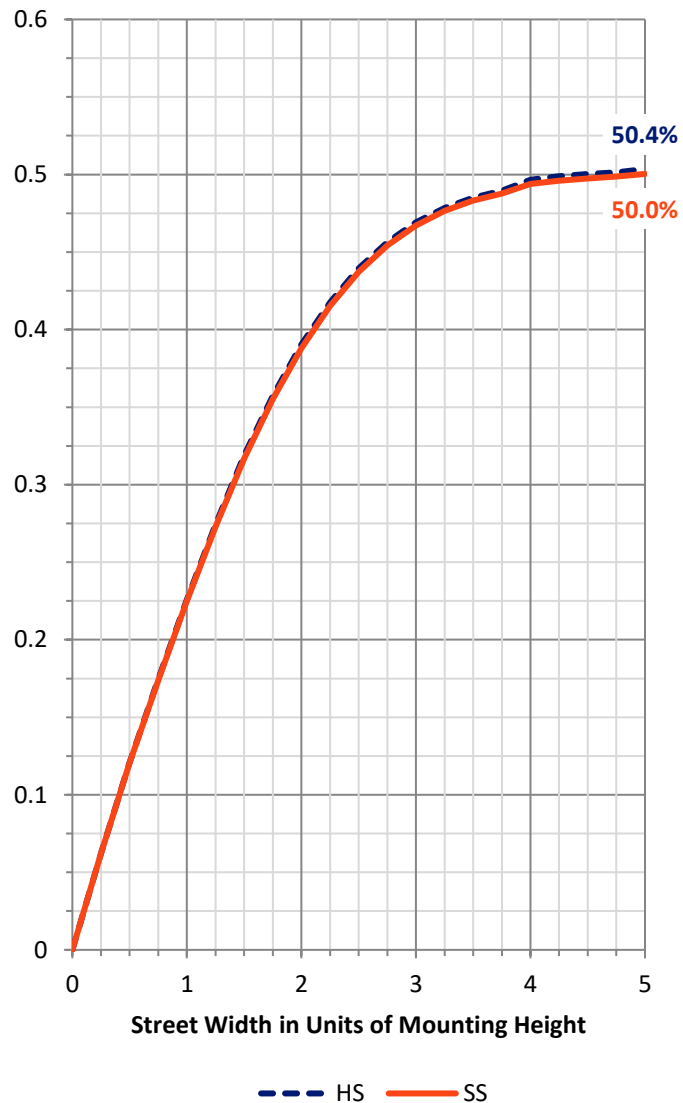
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7763.9 | 0.0 | 7763.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7763.9 | 0.0 | 7763.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15527.7 | 0.0 | 15527.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 131.8 | 0.8 |
| 10°-20° | 386.9 | 2.5 |
| 20°-30° | 643.8 | 4.1 |
| 30°-40° | 973.7 | 6.3 |
| 40°-50° | 1618.0 | 10.4 |
| 50°-60° | 3053.1 | 19.7 |
| 60°-70° | 5155.3 | 33.2 |
| 70°-80° | 3387.6 | 21.8 |
| 80°-90° | 177.5 | 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° | 15527.7 | 100.0 |
| 0°-180° | 15527.7 | 100.0 |

Coefficient of Utilization



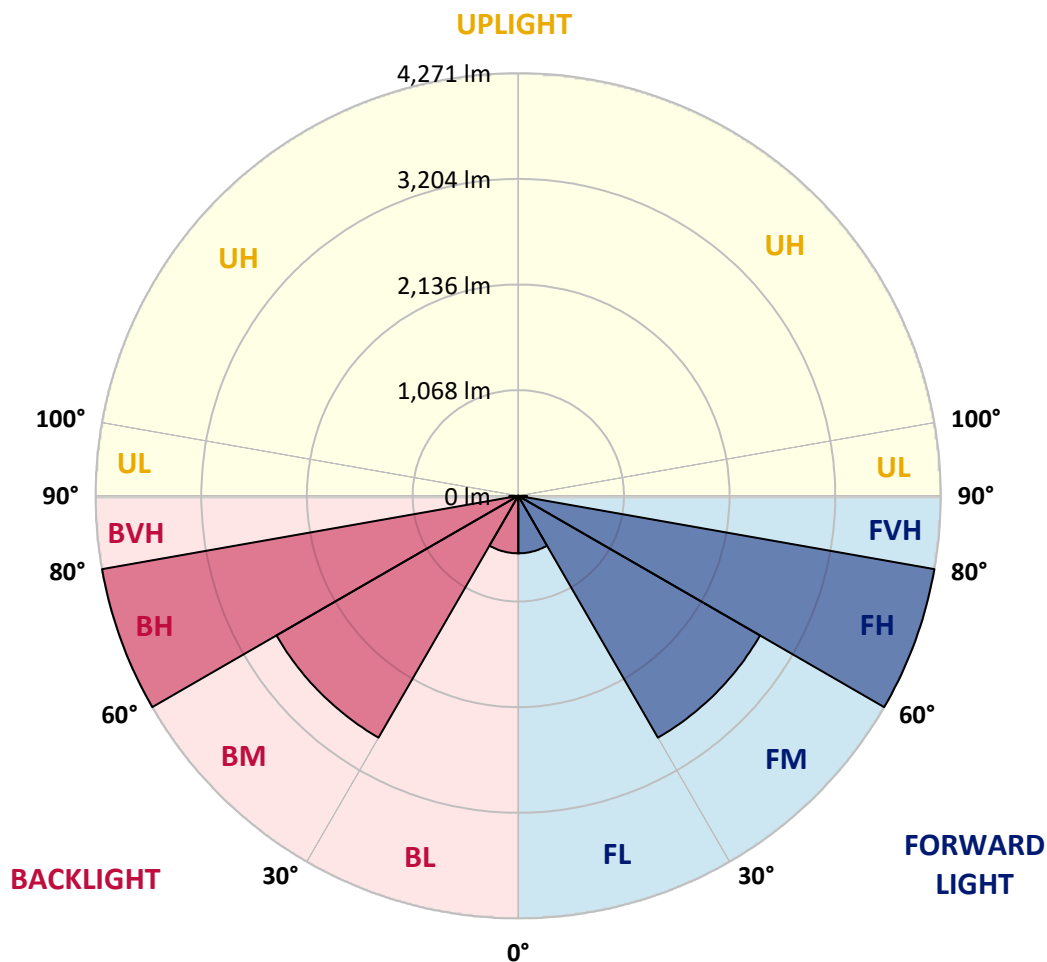
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 581.2 | 3.7 | | | |
| FM (30°-60°) | 2822.4 | 18.2 | | | |
| FH (60°-80°) | 4271.5 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 88.7 | 0.6 | | | G1/100 |
| BL (0°-30°) | 581.2 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 2822.4 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 4271.5 | 27.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 88.7 | 0.6 | | | 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° | 1416.4 | 1416.4 | 1416.4 | 1416.4 | 1416.4 | 1416.4 | 1416.4 | 1416.4 | 1416.4 | 1416.4 | 1416.4 |
| 2.5° | 1407.5 | 1411.6 | 1410.0 | 1406.7 | 1406.7 | 1404.4 | 1406.7 | 1408.4 | 1410.8 | 1412.4 | 1411.6 |
| 5° | 1389.0 | 1392.3 | 1391.4 | 1389.0 | 1389.8 | 1387.3 | 1389.0 | 1391.4 | 1393.1 | 1393.8 | 1393.8 |
| 7.5° | 1372.9 | 1376.1 | 1374.4 | 1370.4 | 1370.4 | 1368.0 | 1368.8 | 1371.2 | 1373.7 | 1374.4 | 1374.4 |
| 10° | 1368.8 | 1372.1 | 1367.2 | 1360.8 | 1358.3 | 1355.2 | 1355.9 | 1358.3 | 1363.1 | 1365.6 | 1365.6 |
| 12.5° | 1370.4 | 1372.9 | 1368.0 | 1358.3 | 1355.9 | 1352.7 | 1352.7 | 1355.2 | 1361.6 | 1364.8 | 1365.6 |
| 15° | 1375.2 | 1377.7 | 1370.4 | 1360.0 | 1357.5 | 1355.2 | 1354.3 | 1357.5 | 1364.8 | 1370.4 | 1371.2 |
| 17.5° | 1384.2 | 1386.6 | 1375.2 | 1360.8 | 1357.5 | 1358.3 | 1357.5 | 1360.0 | 1371.2 | 1381.7 | 1381.7 |
| 20° | 1392.3 | 1393.8 | 1378.5 | 1360.8 | 1357.5 | 1358.3 | 1357.5 | 1362.3 | 1376.9 | 1391.4 | 1392.3 |
| 22.5° | 1394.6 | 1396.3 | 1381.7 | 1366.4 | 1364.0 | 1364.8 | 1364.0 | 1368.8 | 1382.5 | 1397.1 | 1397.1 |
| 25° | 1395.4 | 1397.9 | 1386.6 | 1374.4 | 1378.5 | 1380.2 | 1378.5 | 1379.3 | 1389.8 | 1402.7 | 1401.9 |
| 27.5° | 1407.5 | 1410.8 | 1400.3 | 1389.8 | 1392.3 | 1391.4 | 1393.8 | 1396.3 | 1404.4 | 1417.3 | 1414.0 |
| 30° | 1432.5 | 1435.0 | 1426.1 | 1415.6 | 1414.0 | 1408.4 | 1415.6 | 1423.7 | 1432.5 | 1443.9 | 1441.5 |
| 32.5° | 1473.7 | 1478.6 | 1467.3 | 1456.0 | 1448.7 | 1445.5 | 1451.2 | 1464.8 | 1476.9 | 1489.1 | 1484.2 |
| 35° | 1542.3 | 1545.6 | 1535.0 | 1514.1 | 1501.2 | 1501.2 | 1506.0 | 1523.8 | 1543.1 | 1558.5 | 1552.9 |
| 37.5° | 1639.2 | 1643.3 | 1624.6 | 1599.6 | 1580.2 | 1580.2 | 1586.7 | 1605.3 | 1634.4 | 1656.2 | 1648.1 |
| 40° | 1757.1 | 1762.7 | 1739.3 | 1713.5 | 1694.8 | 1691.7 | 1699.8 | 1720.7 | 1748.1 | 1775.6 | 1766.7 |
| 42.5° | 1899.1 | 1905.6 | 1874.8 | 1852.3 | 1837.7 | 1837.7 | 1841.8 | 1861.2 | 1886.2 | 1920.0 | 1917.7 |
| 45° | 2080.6 | 2092.0 | 2050.0 | 2027.4 | 2013.7 | 2016.9 | 2019.4 | 2036.3 | 2058.9 | 2097.7 | 2096.0 |
| 47.5° | 2297.0 | 2308.3 | 2263.9 | 2240.4 | 2238.1 | 2253.4 | 2243.7 | 2255.8 | 2267.9 | 2312.3 | 2299.4 |
| 50° | 2542.3 | 2561.7 | 2531.0 | 2529.4 | 2534.2 | 2562.5 | 2540.0 | 2546.4 | 2532.7 | 2560.9 | 2543.9 |
| 52.5° | 2842.5 | 2870.8 | 2865.2 | 2874.8 | 2928.9 | 2987.1 | 2935.4 | 2912.7 | 2861.1 | 2870.0 | 2840.2 |
| 55° | 3206.6 | 3249.4 | 3257.4 | 3315.6 | 3438.2 | 3556.9 | 3447.1 | 3355.8 | 3246.1 | 3226.0 | 3194.4 |
| 57.5° | 3620.6 | 3654.5 | 3693.3 | 3811.9 | 4041.1 | 4251.7 | 4041.1 | 3839.3 | 3666.6 | 3625.4 | 3596.4 |
| 60° | 4066.1 | 4108.1 | 4145.2 | 4320.4 | 4661.0 | 4957.1 | 4654.5 | 4334.1 | 4105.6 | 4050.0 | 4001.5 |
| 62.5° | 4544.7 | 4598.8 | 4624.6 | 4819.1 | 5216.2 | 5569.7 | 5221.9 | 4833.7 | 4580.2 | 4520.5 | 4472.1 |
| 65° | 5003.9 | 5048.3 | 5077.4 | 5284.8 | 5664.2 | 6018.5 | 5690.0 | 5307.4 | 5046.7 | 4968.5 | 4929.7 |
| 67.5° | 5217.9 | 5242.1 | 5313.1 | 5547.9 | 5948.3 | 6352.6 | 6016.0 | 5572.9 | 5281.6 | 5144.4 | 5146.0 |
| 70° | 4904.7 | 4855.4 | 5026.6 | 5402.7 | 5982.1 | 6557.6 | 6059.6 | 5391.4 | 5034.6 | 4811.9 | 4865.2 |
| 72.5° | 3790.0 | 3705.4 | 4002.3 | 4645.6 | 5594.8 | 6426.9 | 5633.5 | 4681.9 | 4187.2 | 3735.2 | 3847.4 |
| 75° | 2062.1 | 1966.1 | 2376.1 | 3189.6 | 4461.6 | 5570.6 | 4564.1 | 3280.8 | 2645.6 | 2046.8 | 2180.0 |
| 77.5° | 581.9 | 545.6 | 876.5 | 1543.1 | 2683.6 | 3911.2 | 2786.9 | 1577.1 | 1039.6 | 616.6 | 685.2 |
| 80° | 178.4 | 172.7 | 234.0 | 464.8 | 1139.6 | 1873.3 | 1095.2 | 470.6 | 297.9 | 188.1 | 198.5 |
| 82.5° | 105.7 | 96.9 | 116.2 | 169.5 | 290.6 | 588.3 | 282.5 | 176.7 | 142.1 | 95.2 | 103.3 |
| 85° | 60.6 | 56.5 | 68.6 | 82.3 | 97.7 | 125.0 | 81.5 | 83.9 | 75.8 | 50.8 | 53.3 |
| 87.5° | 25.0 | 22.5 | 26.6 | 25.8 | 22.5 | 29.0 | 21.8 | 25.8 | 30.6 | 20.2 | 18.6 |
| 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)