

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: P961889

Luminaire Tested: **NVN-SB2B-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961889
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-SB2B-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11885.9 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

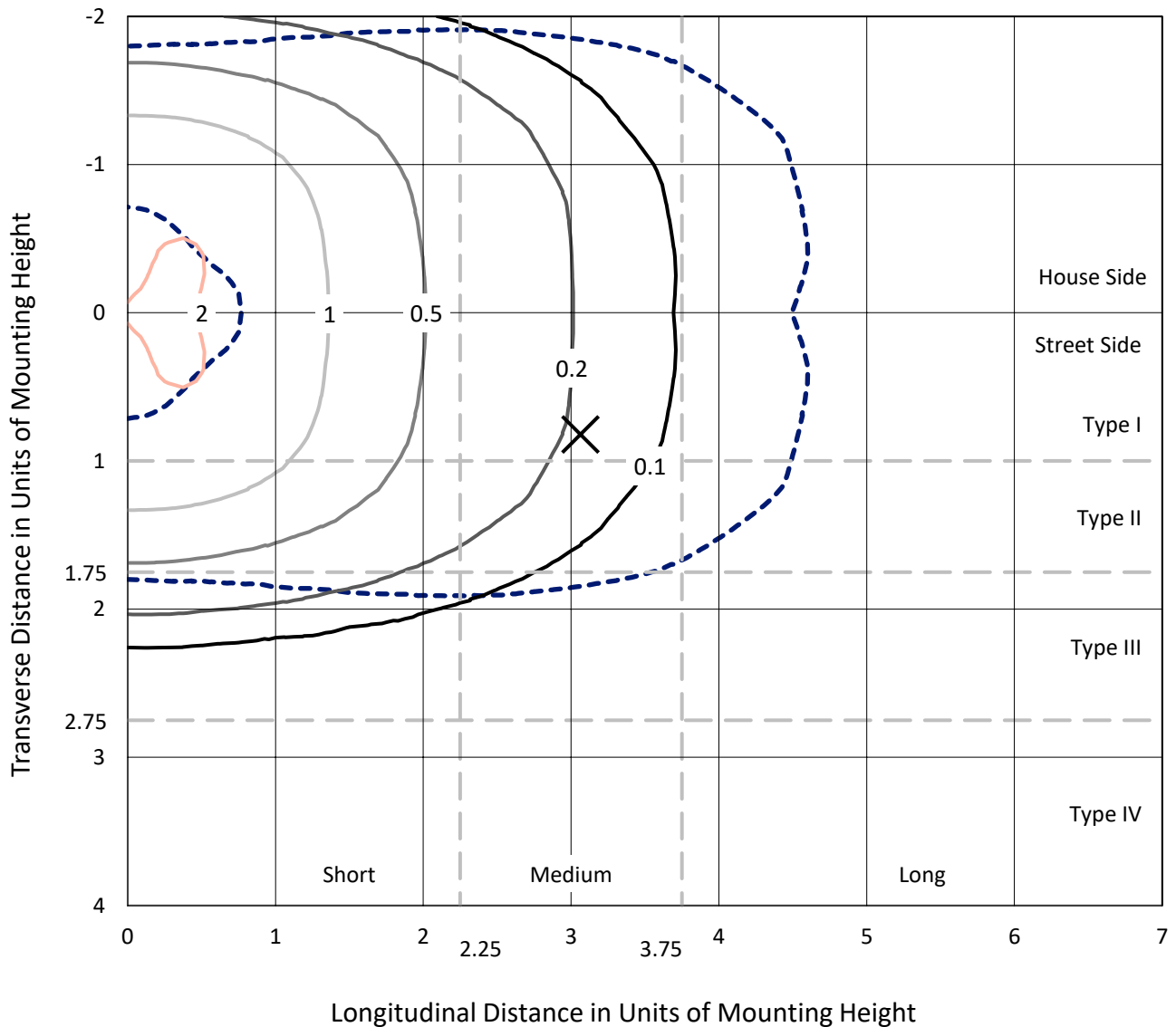
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

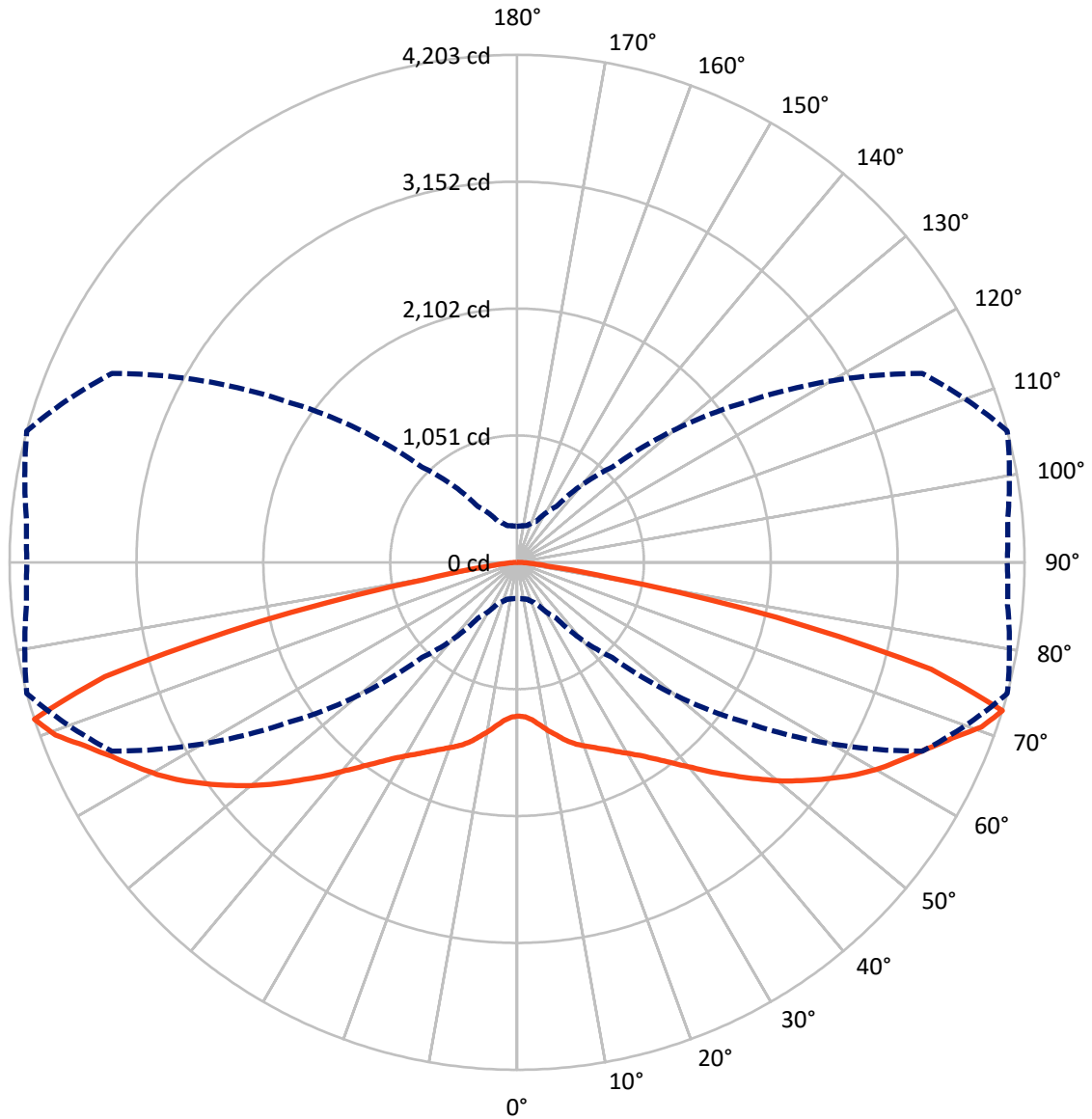
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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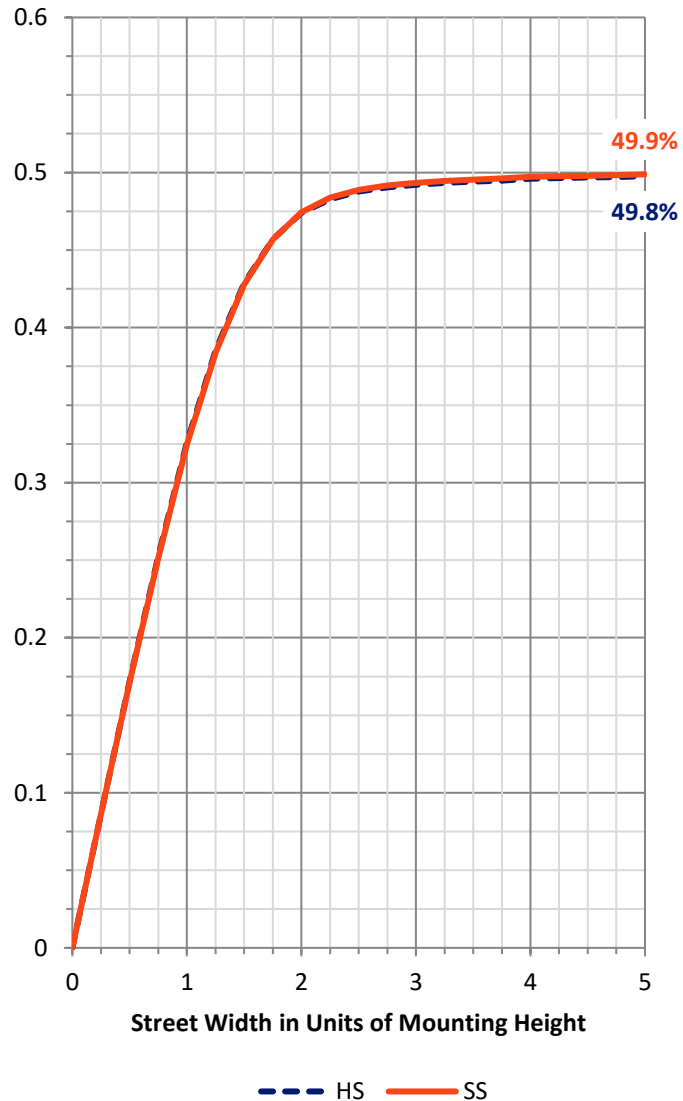
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5942.9 | 0.0 | 5942.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5942.9 | 0.0 | 5942.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11885.9 | 0.0 | 11885.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 124.7 | 1.0 |
| 10°-20° | 411.4 | 3.5 |
| 20°-30° | 794.9 | 6.7 |
| 30°-40° | 1342.2 | 11.3 |
| 40°-50° | 2128.5 | 17.9 |
| 50°-60° | 2849.8 | 24.0 |
| 60°-70° | 2712.1 | 22.8 |
| 70°-80° | 1415.2 | 11.9 |
| 80°-90° | 107.1 | 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° | 11885.9 | 100.0 |
| 0°-180° | 11885.9 | 100.0 |

Coefficient of Utilization



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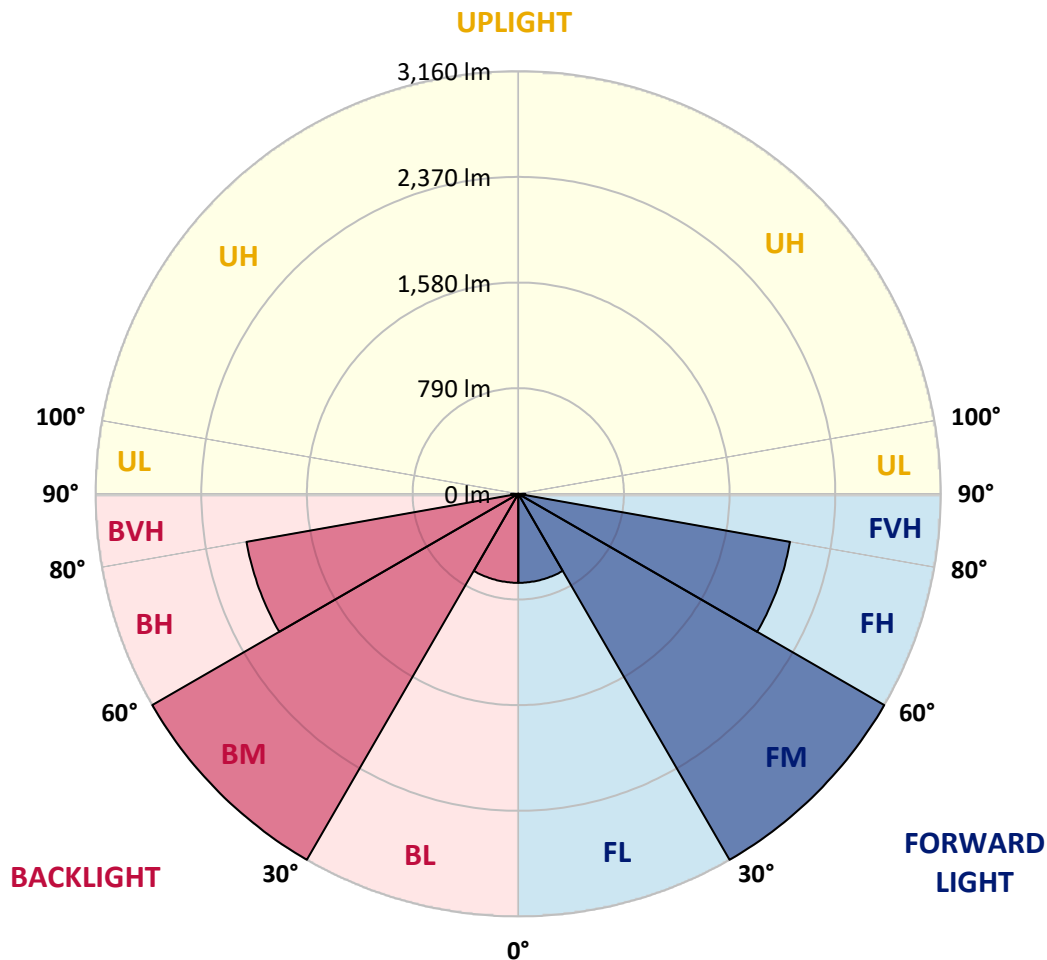
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 665.5 | 5.6 | | | |
| FM | (30°-60°) | 3160.2 | 26.6 | | | |
| FH | (60°-80°) | 2063.7 | 17.4 | | | G2/5000 |
| FVH | (80°-90°) | 53.6 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 665.5 | 5.6 | B2/1000 | | |
| BM | (30°-60°) | 3160.2 | 26.6 | B3/5000 | | |
| BH | (60°-80°) | 2063.7 | 17.4 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 53.6 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1273.2 | 1273.2 | 1273.2 | 1273.2 | 1273.2 | 1273.2 | 1273.2 | 1273.2 | 1273.2 | 1273.2 | 1273.2 |
| 2.5° | 1273.2 | 1272.0 | 1273.2 | 1274.4 | 1273.8 | 1273.8 | 1276.8 | 1278.7 | 1282.3 | 1281.7 | 1281.0 |
| 5° | 1264.7 | 1264.1 | 1268.9 | 1274.4 | 1278.7 | 1286.0 | 1295.1 | 1301.8 | 1310.3 | 1312.0 | 1312.0 |
| 7.5° | 1260.4 | 1258.6 | 1267.1 | 1276.8 | 1290.2 | 1308.4 | 1325.9 | 1344.2 | 1358.7 | 1363.7 | 1364.8 |
| 10° | 1263.5 | 1264.1 | 1275.6 | 1293.9 | 1315.1 | 1340.6 | 1365.4 | 1396.4 | 1417.1 | 1421.9 | 1426.7 |
| 12.5° | 1277.5 | 1276.2 | 1295.6 | 1324.8 | 1353.9 | 1386.1 | 1415.2 | 1449.1 | 1471.6 | 1483.2 | 1488.0 |
| 15° | 1303.0 | 1300.5 | 1327.8 | 1370.9 | 1413.4 | 1451.0 | 1474.7 | 1506.9 | 1532.9 | 1547.4 | 1553.0 |
| 17.5° | 1333.3 | 1334.4 | 1370.3 | 1426.1 | 1481.9 | 1524.5 | 1546.9 | 1563.2 | 1583.3 | 1596.0 | 1602.1 |
| 20° | 1386.7 | 1389.1 | 1429.2 | 1495.3 | 1559.0 | 1607.6 | 1625.8 | 1619.7 | 1625.1 | 1634.9 | 1642.2 |
| 22.5° | 1458.3 | 1459.5 | 1504.4 | 1576.0 | 1642.8 | 1696.2 | 1708.3 | 1683.5 | 1668.3 | 1675.0 | 1679.8 |
| 25° | 1541.4 | 1549.3 | 1594.2 | 1667.7 | 1736.2 | 1787.2 | 1792.6 | 1755.0 | 1717.4 | 1719.2 | 1722.3 |
| 27.5° | 1642.8 | 1650.0 | 1695.6 | 1768.4 | 1838.1 | 1882.5 | 1881.9 | 1831.5 | 1776.3 | 1762.3 | 1766.6 |
| 30° | 1752.6 | 1760.5 | 1807.3 | 1882.5 | 1947.4 | 1986.2 | 1977.7 | 1917.7 | 1838.7 | 1812.7 | 1815.7 |
| 32.5° | 1883.1 | 1887.9 | 1935.3 | 2010.5 | 2070.6 | 2101.6 | 2083.9 | 2009.9 | 1911.6 | 1881.9 | 1889.2 |
| 35° | 2040.9 | 2048.2 | 2083.3 | 2154.3 | 2207.1 | 2232.7 | 2202.9 | 2115.5 | 2005.1 | 1971.7 | 1976.5 |
| 37.5° | 2221.1 | 2216.3 | 2256.3 | 2319.4 | 2363.1 | 2378.9 | 2338.2 | 2234.5 | 2111.9 | 2072.4 | 2079.7 |
| 40° | 2409.3 | 2406.8 | 2450.5 | 2511.1 | 2534.8 | 2544.6 | 2484.5 | 2371.0 | 2235.1 | 2192.6 | 2206.5 |
| 42.5° | 2579.7 | 2578.0 | 2636.8 | 2704.2 | 2732.6 | 2721.8 | 2645.9 | 2516.1 | 2377.7 | 2329.1 | 2341.3 |
| 45° | 2716.4 | 2713.9 | 2786.1 | 2880.8 | 2936.6 | 2918.4 | 2816.4 | 2676.3 | 2522.1 | 2471.8 | 2483.3 |
| 47.5° | 2821.3 | 2822.5 | 2900.1 | 3017.3 | 3115.0 | 3121.7 | 2990.6 | 2839.5 | 2681.1 | 2624.1 | 2641.0 |
| 50° | 2897.2 | 2900.7 | 2984.0 | 3113.8 | 3247.3 | 3306.1 | 3168.4 | 3007.0 | 2845.6 | 2781.2 | 2800.7 |
| 52.5° | 2915.9 | 2922.7 | 3022.7 | 3175.1 | 3332.3 | 3444.5 | 3349.3 | 3167.8 | 3001.5 | 2940.2 | 2956.0 |
| 55° | 2815.9 | 2829.2 | 2956.0 | 3170.2 | 3384.4 | 3535.5 | 3508.3 | 3331.0 | 3158.7 | 3095.6 | 3113.2 |
| 57.5° | 2585.9 | 2604.6 | 2752.7 | 3032.5 | 3373.0 | 3598.1 | 3631.5 | 3487.7 | 3315.9 | 3255.2 | 3269.1 |
| 60° | 2263.6 | 2286.1 | 2428.0 | 2733.3 | 3210.3 | 3621.1 | 3718.2 | 3640.0 | 3460.3 | 3401.5 | 3414.2 |
| 62.5° | 1777.5 | 1806.7 | 1976.5 | 2334.5 | 2866.8 | 3513.7 | 3792.3 | 3777.7 | 3590.2 | 3516.8 | 3525.3 |
| 65° | 1140.3 | 1171.3 | 1350.2 | 1773.2 | 2408.6 | 3184.8 | 3815.4 | 3911.8 | 3727.3 | 3624.8 | 3637.5 |
| 67.5° | 687.6 | 701.5 | 790.2 | 1074.7 | 1760.5 | 2689.0 | 3619.9 | 4060.5 | 3887.5 | 3760.1 | 3769.8 |
| 70° | 439.9 | 447.8 | 500.6 | 631.1 | 995.3 | 1962.0 | 3135.7 | 4088.4 | 4081.8 | 3899.1 | 3897.9 |
| 72.5° | 298.6 | 301.0 | 315.0 | 373.8 | 563.1 | 1114.8 | 2312.7 | 3701.3 | 4203.1 | 4078.1 | 4058.7 |
| 75° | 218.4 | 231.9 | 254.3 | 264.6 | 319.8 | 557.1 | 1325.4 | 2600.4 | 3542.2 | 3596.8 | 3464.6 |
| 77.5° | 162.7 | 163.3 | 194.2 | 206.3 | 228.2 | 296.7 | 560.8 | 1451.6 | 2199.2 | 2309.1 | 2059.6 |
| 80° | 137.8 | 130.5 | 129.9 | 166.3 | 171.8 | 185.1 | 250.6 | 501.2 | 787.7 | 477.6 | 361.1 |
| 82.5° | 114.7 | 106.8 | 96.5 | 129.9 | 117.2 | 113.5 | 108.6 | 203.9 | 250.6 | 123.2 | 105.0 |
| 85° | 80.2 | 76.5 | 72.8 | 85.0 | 66.7 | 57.1 | 52.2 | 95.3 | 105.6 | 52.2 | 46.1 |
| 87.5° | 34.5 | 35.8 | 36.4 | 37.6 | 27.9 | 20.0 | 20.0 | 26.8 | 26.8 | 20.6 | 15.2 |
| 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)