

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: P963408

Luminaire Tested: **NVN-SB3A-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963408
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-SB3A-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11735.2 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

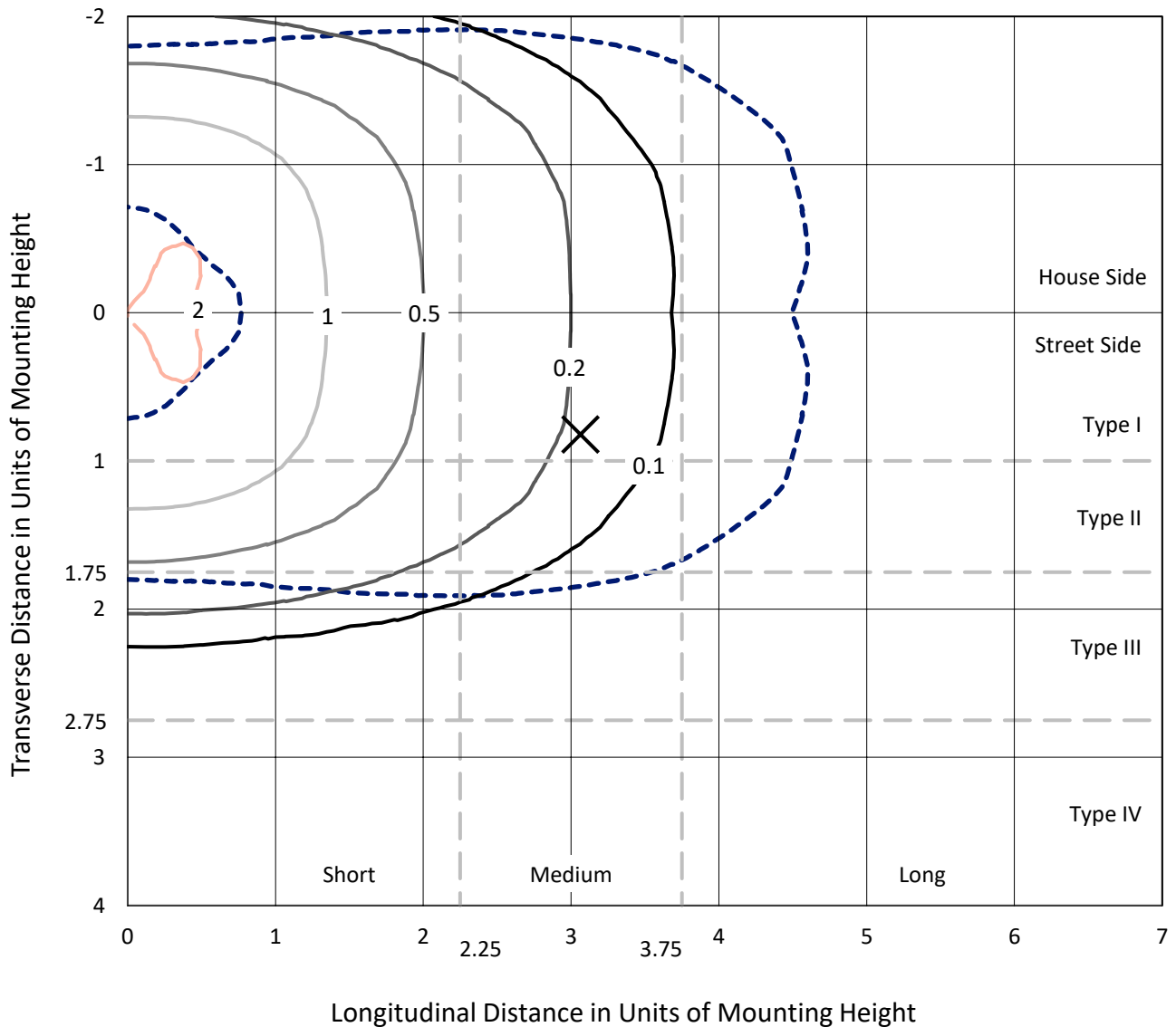
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

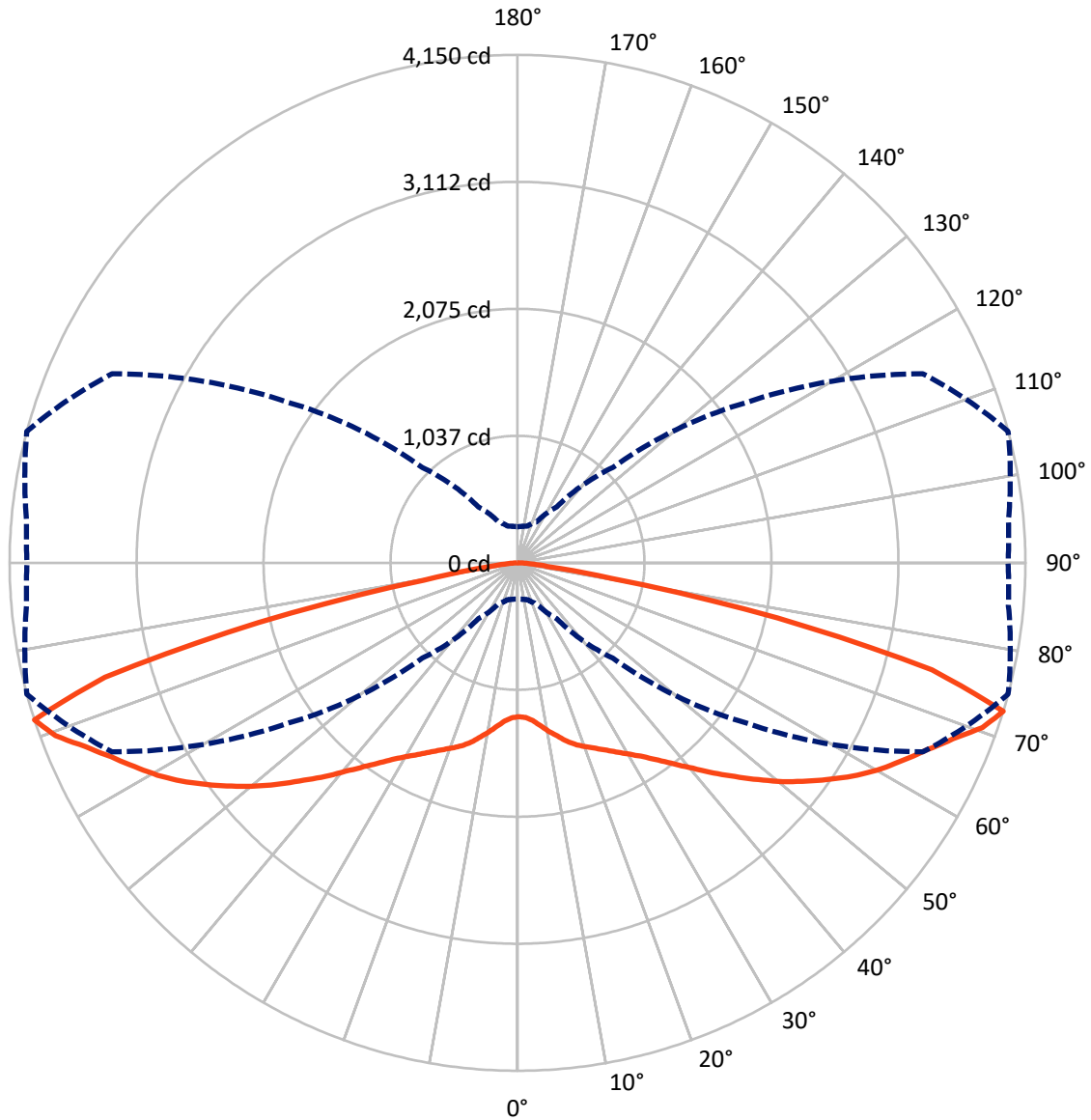
× Max cd
 - - - 1/2 Max cd



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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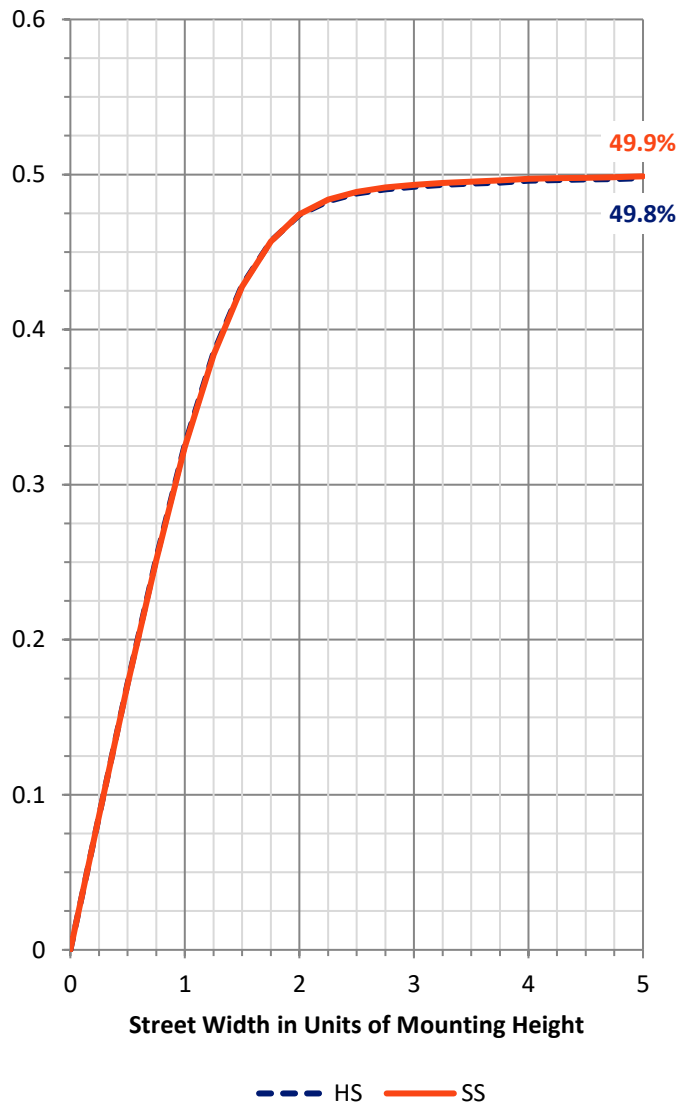
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5867.6 | 0.0 | 5867.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5867.6 | 0.0 | 5867.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11735.2 | 0.0 | 11735.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.1 | 1.0 |
| 10°-20° | 406.1 | 3.5 |
| 20°-30° | 784.8 | 6.7 |
| 30°-40° | 1325.1 | 11.3 |
| 40°-50° | 2101.5 | 17.9 |
| 50°-60° | 2813.7 | 24.0 |
| 60°-70° | 2677.7 | 22.8 |
| 70°-80° | 1397.3 | 11.9 |
| 80°-90° | 105.8 | 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° | 11735.2 | 100.0 |
| 0°-180° | 11735.2 | 100.0 |

Coefficient of Utilization

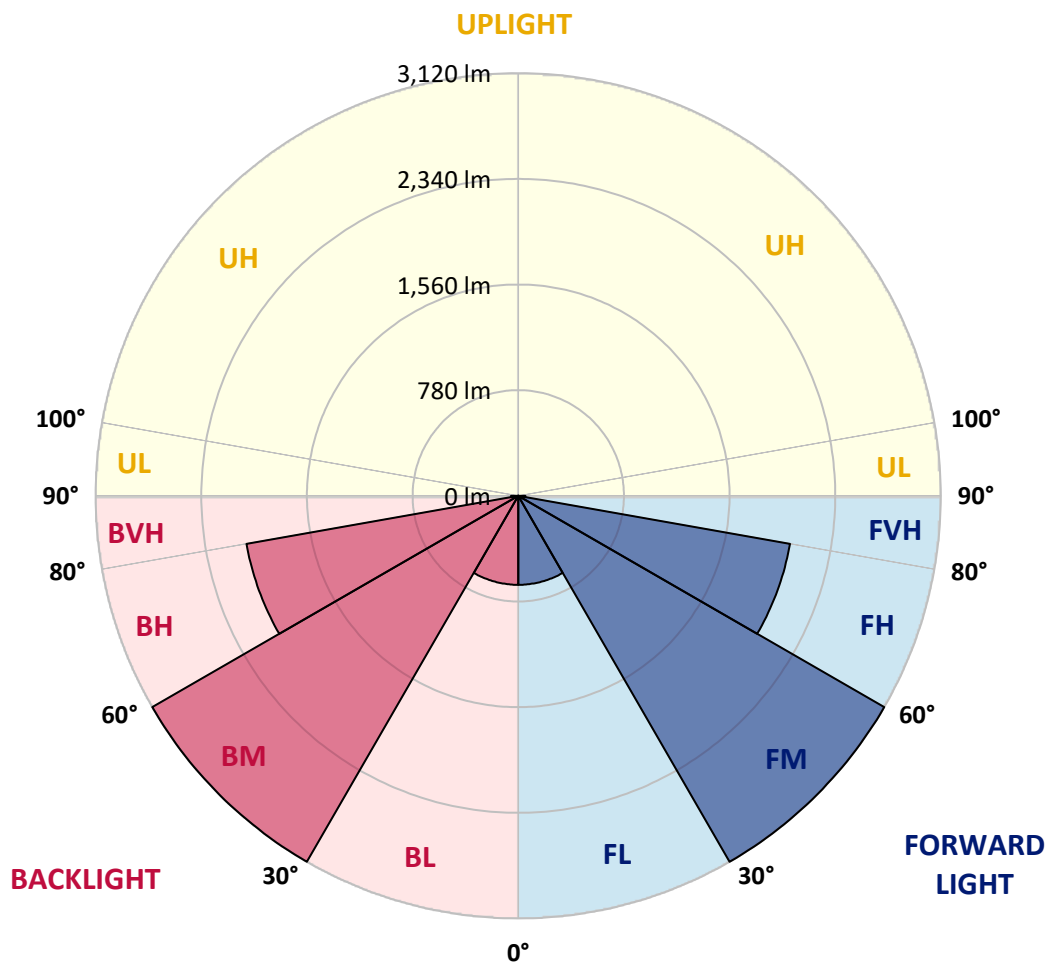


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 657.0 | 5.6 | | | |
| FM (30°-60°) | 3120.2 | 26.6 | | | |
| FH (60°-80°) | 2037.5 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 52.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 657.0 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 3120.2 | 26.6 | B3/5000 | | |
| BH (60°-80°) | 2037.5 | 17.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 52.9 | 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° | 1257.1 | 1257.1 | 1257.1 | 1257.1 | 1257.1 | 1257.1 | 1257.1 | 1257.1 | 1257.1 | 1257.1 | 1257.1 |
| 2.5° | 1257.1 | 1255.8 | 1257.1 | 1258.3 | 1257.7 | 1257.7 | 1260.6 | 1262.5 | 1266.1 | 1265.5 | 1264.8 |
| 5° | 1248.7 | 1248.0 | 1252.9 | 1258.3 | 1262.5 | 1269.7 | 1278.6 | 1285.2 | 1293.7 | 1295.4 | 1295.4 |
| 7.5° | 1244.5 | 1242.7 | 1251.0 | 1260.6 | 1273.9 | 1291.8 | 1309.1 | 1327.2 | 1341.5 | 1346.3 | 1347.6 |
| 10° | 1247.4 | 1248.0 | 1259.4 | 1277.5 | 1298.4 | 1323.6 | 1348.1 | 1378.7 | 1399.0 | 1403.8 | 1408.7 |
| 12.5° | 1261.3 | 1260.0 | 1279.2 | 1308.0 | 1336.7 | 1368.5 | 1397.3 | 1430.8 | 1452.9 | 1464.3 | 1469.1 |
| 15° | 1286.4 | 1284.0 | 1311.0 | 1353.5 | 1395.4 | 1432.6 | 1456.0 | 1487.7 | 1513.5 | 1527.9 | 1533.3 |
| 17.5° | 1316.4 | 1317.5 | 1352.9 | 1408.0 | 1463.2 | 1505.1 | 1527.2 | 1543.4 | 1563.2 | 1575.8 | 1581.8 |
| 20° | 1369.1 | 1371.4 | 1411.0 | 1476.3 | 1539.2 | 1587.2 | 1605.1 | 1599.2 | 1604.5 | 1614.2 | 1621.3 |
| 22.5° | 1439.8 | 1441.0 | 1485.3 | 1556.1 | 1622.0 | 1674.6 | 1686.6 | 1662.1 | 1647.1 | 1653.7 | 1658.4 |
| 25° | 1521.9 | 1529.7 | 1574.0 | 1646.6 | 1714.2 | 1764.5 | 1770.0 | 1732.8 | 1695.7 | 1697.4 | 1700.5 |
| 27.5° | 1622.0 | 1629.1 | 1674.0 | 1746.0 | 1814.9 | 1858.6 | 1858.0 | 1808.3 | 1753.8 | 1739.9 | 1744.1 |
| 30° | 1730.4 | 1738.2 | 1784.3 | 1858.6 | 1922.7 | 1961.0 | 1952.7 | 1893.4 | 1815.5 | 1789.8 | 1792.7 |
| 32.5° | 1859.2 | 1864.0 | 1910.7 | 1985.0 | 2044.4 | 2074.9 | 2057.6 | 1984.4 | 1887.3 | 1858.0 | 1865.2 |
| 35° | 2015.0 | 2022.2 | 2057.0 | 2127.1 | 2179.1 | 2204.4 | 2174.9 | 2088.7 | 1979.7 | 1946.7 | 1951.5 |
| 37.5° | 2193.0 | 2188.2 | 2227.7 | 2290.1 | 2333.2 | 2348.7 | 2308.6 | 2206.1 | 2085.1 | 2046.1 | 2053.4 |
| 40° | 2378.7 | 2376.3 | 2419.4 | 2479.4 | 2502.7 | 2512.3 | 2453.0 | 2340.9 | 2206.7 | 2164.8 | 2178.5 |
| 42.5° | 2547.0 | 2545.3 | 2603.4 | 2669.9 | 2698.0 | 2687.2 | 2612.4 | 2484.2 | 2347.6 | 2299.6 | 2311.6 |
| 45° | 2681.9 | 2679.5 | 2750.8 | 2844.3 | 2899.4 | 2881.4 | 2780.7 | 2642.3 | 2490.1 | 2440.4 | 2451.8 |
| 47.5° | 2785.5 | 2786.8 | 2863.4 | 2979.1 | 3075.5 | 3082.1 | 2952.7 | 2803.5 | 2647.2 | 2590.8 | 2607.6 |
| 50° | 2860.5 | 2864.1 | 2946.1 | 3074.3 | 3206.1 | 3264.2 | 3128.3 | 2968.9 | 2809.5 | 2746.0 | 2765.1 |
| 52.5° | 2879.0 | 2885.6 | 2984.5 | 3134.9 | 3290.0 | 3400.8 | 3306.8 | 3127.7 | 2963.5 | 2903.0 | 2918.6 |
| 55° | 2780.1 | 2793.3 | 2918.6 | 3130.0 | 3341.6 | 3490.7 | 3463.8 | 3288.8 | 3118.7 | 3056.3 | 3073.8 |
| 57.5° | 2553.1 | 2571.6 | 2717.8 | 2994.0 | 3330.1 | 3552.4 | 3585.4 | 3443.4 | 3273.8 | 3213.9 | 3227.7 |
| 60° | 2234.9 | 2257.0 | 2397.3 | 2698.6 | 3169.6 | 3575.2 | 3671.1 | 3593.9 | 3416.4 | 3358.3 | 3370.9 |
| 62.5° | 1755.0 | 1783.7 | 1951.5 | 2305.0 | 2830.4 | 3469.2 | 3744.2 | 3729.8 | 3544.7 | 3472.2 | 3480.6 |
| 65° | 1125.9 | 1156.4 | 1333.1 | 1750.8 | 2378.1 | 3144.4 | 3767.0 | 3862.2 | 3680.1 | 3578.8 | 3591.4 |
| 67.5° | 678.9 | 692.6 | 780.1 | 1061.1 | 1738.2 | 2655.0 | 3574.1 | 4009.0 | 3838.2 | 3712.4 | 3722.0 |
| 70° | 434.4 | 442.2 | 494.4 | 623.1 | 982.7 | 1937.1 | 3095.9 | 4036.6 | 4030.0 | 3849.7 | 3848.5 |
| 72.5° | 294.8 | 297.1 | 311.0 | 369.1 | 556.1 | 1100.6 | 2283.4 | 3654.3 | 4149.8 | 4026.4 | 4007.2 |
| 75° | 215.7 | 228.9 | 251.0 | 261.3 | 315.8 | 550.0 | 1308.6 | 2567.4 | 3497.3 | 3551.2 | 3420.6 |
| 77.5° | 160.6 | 161.1 | 191.8 | 203.7 | 225.3 | 292.9 | 553.6 | 1433.3 | 2171.4 | 2279.8 | 2033.6 |
| 80° | 136.0 | 128.8 | 128.2 | 164.2 | 169.5 | 182.8 | 247.4 | 494.9 | 777.8 | 471.5 | 356.5 |
| 82.5° | 113.3 | 105.5 | 95.2 | 128.2 | 115.6 | 112.0 | 107.2 | 201.3 | 247.4 | 121.7 | 103.6 |
| 85° | 79.1 | 75.5 | 71.9 | 83.8 | 65.9 | 56.3 | 51.6 | 94.1 | 104.2 | 51.6 | 45.5 |
| 87.5° | 34.1 | 35.4 | 36.0 | 37.1 | 27.6 | 19.8 | 19.8 | 26.3 | 26.3 | 20.4 | 15.0 |
| 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)