

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: LUMARK

Report Number: P960304

Luminaire Tested: **NAV-SB1C-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8046.3 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

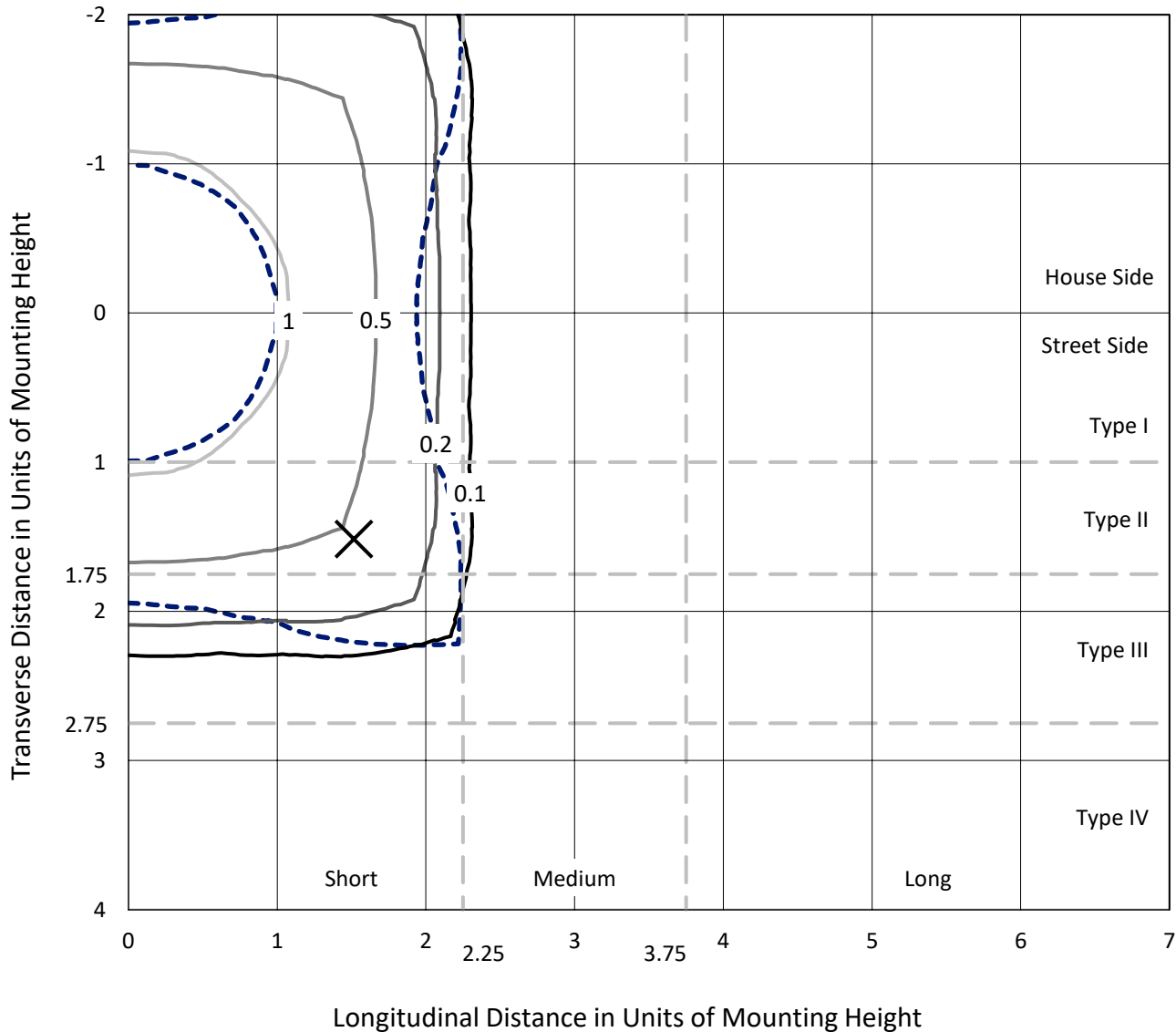
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

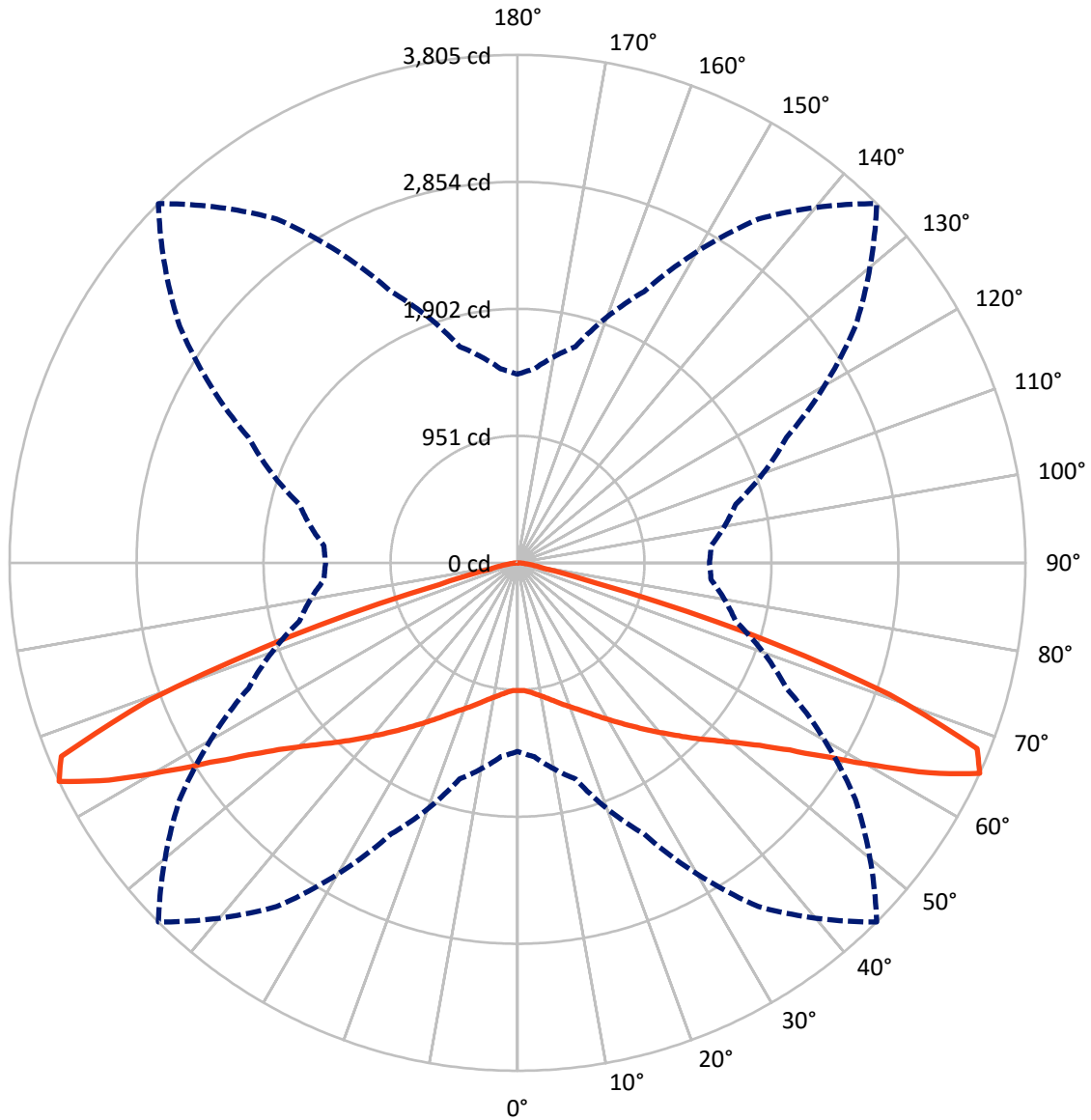
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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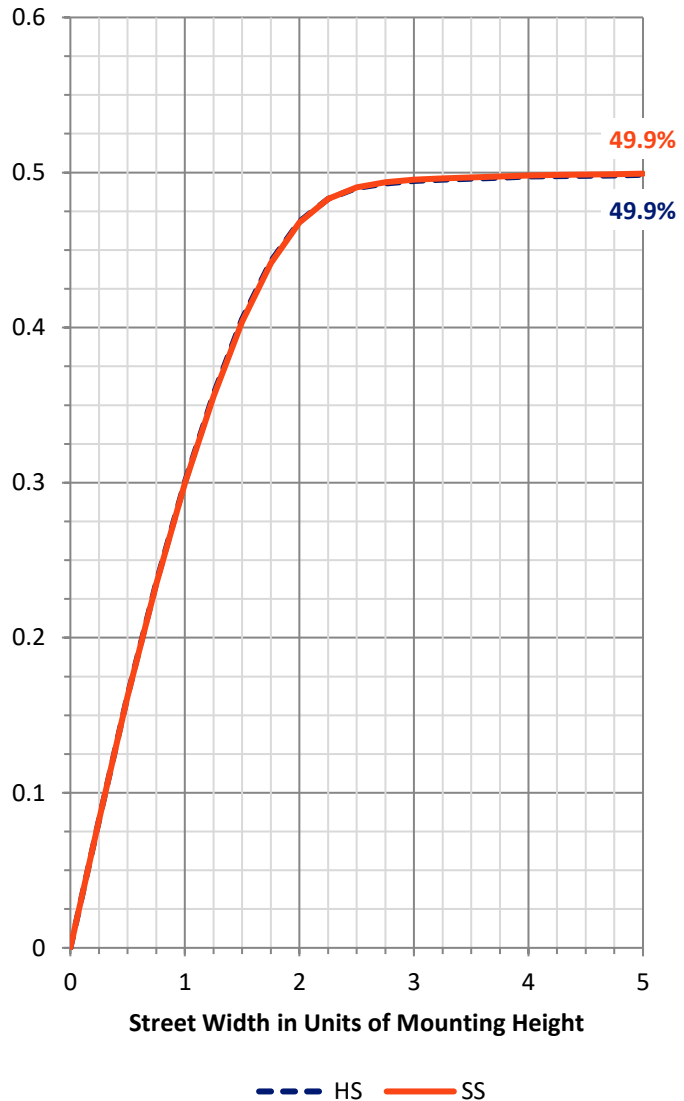
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4023.1 | 0.0 | 4023.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4023.1 | 0.0 | 4023.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8046.3 | 0.0 | 8046.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.5 | 1.2 |
| 10°-20° | 308.4 | 3.8 |
| 20°-30° | 582.2 | 7.2 |
| 30°-40° | 953.4 | 11.8 |
| 40°-50° | 1478.3 | 18.4 |
| 50°-60° | 2183.7 | 27.1 |
| 60°-70° | 2078.7 | 25.8 |
| 70°-80° | 335.4 | 4.2 |
| 80°-90° | 31.6 | 0.4 |
| 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° | 8046.3 | 100.0 |
| 0°-180° | 8046.3 | 100.0 |

Coefficient of Utilization



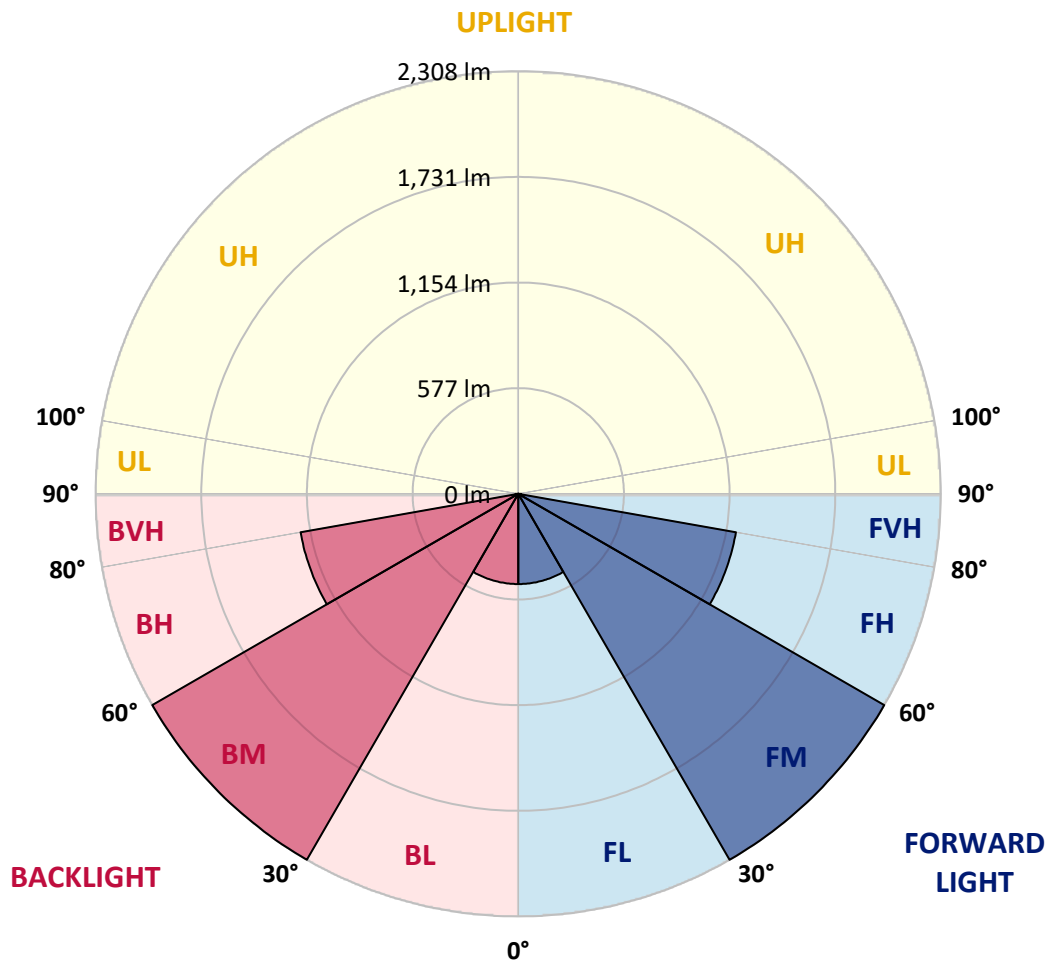
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 492.6 | 6.1 | | | |
| FM (30°-60°) | 2307.7 | 28.7 | | | |
| FH (60°-80°) | 1207.1 | 15.0 | | | G1/1800 |
| FVH (80°-90°) | 15.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 492.6 | 6.1 | B1/500 | | |
| BM (30°-60°) | 2307.7 | 28.7 | B2/2500 | | |
| BH (60°-80°) | 1207.1 | 15.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 15.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 957.6 | 957.6 | 957.6 | 957.6 | 957.6 | 957.6 | 957.6 | 957.6 | 957.6 | 957.6 | 957.6 |
| 2.5° | 964.0 | 960.8 | 963.2 | 961.2 | 959.6 | 958.0 | 958.8 | 961.7 | 962.8 | 963.2 | 963.2 |
| 5° | 976.9 | 974.2 | 975.4 | 975.4 | 972.5 | 971.7 | 972.1 | 974.2 | 976.5 | 976.5 | 976.5 |
| 7.5° | 997.9 | 995.2 | 997.9 | 996.3 | 993.9 | 993.1 | 992.7 | 994.4 | 997.9 | 997.9 | 996.7 |
| 10° | 1023.4 | 1020.2 | 1021.8 | 1021.0 | 1018.1 | 1016.9 | 1016.5 | 1019.0 | 1022.1 | 1021.8 | 1021.0 |
| 12.5° | 1051.2 | 1047.7 | 1049.6 | 1047.2 | 1046.4 | 1045.2 | 1045.2 | 1044.8 | 1046.8 | 1045.2 | 1046.0 |
| 15° | 1082.3 | 1079.9 | 1080.8 | 1079.1 | 1080.4 | 1079.5 | 1076.2 | 1074.6 | 1075.4 | 1073.1 | 1073.5 |
| 17.5° | 1119.1 | 1113.5 | 1116.2 | 1115.4 | 1115.4 | 1117.0 | 1111.8 | 1109.8 | 1111.4 | 1108.9 | 1111.0 |
| 20° | 1161.4 | 1155.8 | 1157.0 | 1155.4 | 1153.3 | 1155.0 | 1148.5 | 1150.2 | 1151.4 | 1149.7 | 1153.3 |
| 22.5° | 1207.9 | 1200.6 | 1200.2 | 1201.0 | 1196.6 | 1197.0 | 1192.6 | 1196.6 | 1199.0 | 1194.5 | 1199.0 |
| 25° | 1255.5 | 1247.8 | 1253.1 | 1251.1 | 1245.4 | 1246.6 | 1243.4 | 1247.4 | 1249.5 | 1243.8 | 1250.3 |
| 27.5° | 1306.0 | 1300.7 | 1305.5 | 1306.8 | 1299.9 | 1304.7 | 1299.9 | 1303.6 | 1305.5 | 1297.1 | 1303.6 |
| 30° | 1364.9 | 1359.7 | 1364.1 | 1367.4 | 1359.3 | 1366.9 | 1362.9 | 1365.3 | 1365.7 | 1355.7 | 1361.7 |
| 32.5° | 1429.2 | 1421.1 | 1432.3 | 1434.0 | 1425.1 | 1434.4 | 1429.2 | 1432.3 | 1434.4 | 1420.6 | 1429.9 |
| 35° | 1507.5 | 1497.3 | 1510.2 | 1508.2 | 1500.6 | 1508.2 | 1503.4 | 1508.2 | 1513.1 | 1496.5 | 1506.6 |
| 37.5° | 1591.8 | 1581.3 | 1595.0 | 1591.4 | 1584.1 | 1589.4 | 1586.6 | 1589.8 | 1597.5 | 1579.7 | 1590.6 |
| 40° | 1684.7 | 1671.8 | 1690.3 | 1683.9 | 1677.0 | 1676.2 | 1677.8 | 1679.8 | 1689.9 | 1670.1 | 1676.6 |
| 42.5° | 1784.0 | 1770.3 | 1798.1 | 1788.0 | 1778.3 | 1771.8 | 1777.1 | 1781.1 | 1790.8 | 1768.6 | 1780.3 |
| 45° | 1897.4 | 1881.7 | 1918.0 | 1905.9 | 1890.5 | 1877.2 | 1885.7 | 1891.7 | 1905.9 | 1879.2 | 1893.0 |
| 47.5° | 2022.5 | 2004.8 | 2043.5 | 2040.0 | 2014.8 | 1985.8 | 2005.2 | 2022.5 | 2033.1 | 2000.8 | 2011.7 |
| 50° | 2144.9 | 2131.2 | 2182.0 | 2186.4 | 2155.8 | 2115.0 | 2142.0 | 2168.3 | 2171.2 | 2128.7 | 2133.9 |
| 52.5° | 2259.5 | 2245.8 | 2319.7 | 2347.6 | 2320.1 | 2271.6 | 2300.3 | 2327.0 | 2305.5 | 2250.7 | 2252.2 |
| 55° | 2351.1 | 2339.9 | 2434.0 | 2505.8 | 2515.0 | 2475.1 | 2492.1 | 2491.3 | 2421.0 | 2336.6 | 2339.5 |
| 57.5° | 2373.4 | 2371.7 | 2490.4 | 2642.7 | 2739.5 | 2744.3 | 2710.8 | 2625.3 | 2473.9 | 2360.5 | 2353.2 |
| 60° | 2272.4 | 2282.6 | 2445.6 | 2714.1 | 2972.5 | 3079.8 | 2934.9 | 2690.7 | 2413.8 | 2256.3 | 2237.7 |
| 62.5° | 1970.5 | 1997.1 | 2193.7 | 2626.9 | 3160.6 | 3465.8 | 3114.6 | 2591.4 | 2166.6 | 1961.2 | 1949.0 |
| 65° | 1412.1 | 1458.6 | 1675.8 | 2241.8 | 3143.7 | 3804.9 | 3088.7 | 2223.6 | 1692.0 | 1455.0 | 1437.6 |
| 67.5° | 640.7 | 687.9 | 872.4 | 1534.8 | 2732.6 | 3712.9 | 2726.2 | 1551.0 | 916.0 | 690.3 | 680.2 |
| 70° | 232.2 | 240.2 | 299.5 | 614.5 | 1746.4 | 2958.4 | 1821.1 | 618.9 | 318.6 | 255.9 | 252.8 |
| 72.5° | 140.5 | 141.7 | 154.3 | 220.1 | 606.8 | 1796.1 | 632.6 | 227.2 | 157.4 | 139.7 | 142.1 |
| 75° | 89.2 | 88.5 | 109.8 | 134.5 | 215.1 | 606.0 | 225.7 | 134.5 | 109.4 | 99.7 | 100.6 |
| 77.5° | 64.2 | 66.2 | 78.7 | 100.6 | 135.6 | 205.5 | 133.2 | 96.0 | 78.7 | 64.6 | 65.8 |
| 80° | 48.1 | 49.3 | 57.3 | 78.3 | 95.3 | 128.0 | 84.8 | 71.0 | 59.3 | 40.4 | 41.6 |
| 82.5° | 34.7 | 34.7 | 37.5 | 56.9 | 58.1 | 69.0 | 46.0 | 50.0 | 39.2 | 28.7 | 28.7 |
| 85° | 20.6 | 20.2 | 23.4 | 33.9 | 30.2 | 25.4 | 21.0 | 30.6 | 24.6 | 17.7 | 17.3 |
| 87.5° | 7.3 | 7.7 | 7.3 | 9.7 | 8.1 | 6.9 | 6.5 | 8.5 | 6.9 | 6.0 | 5.6 |
| 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)