

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: P960397

Luminaire Tested: **NVN-SB1C-750-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960397
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: STREETWORKS
Catalog Number: NVN-SB1C-750-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8512.7 lumens
Efficiency: N/A
Efficacy: 156.5 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

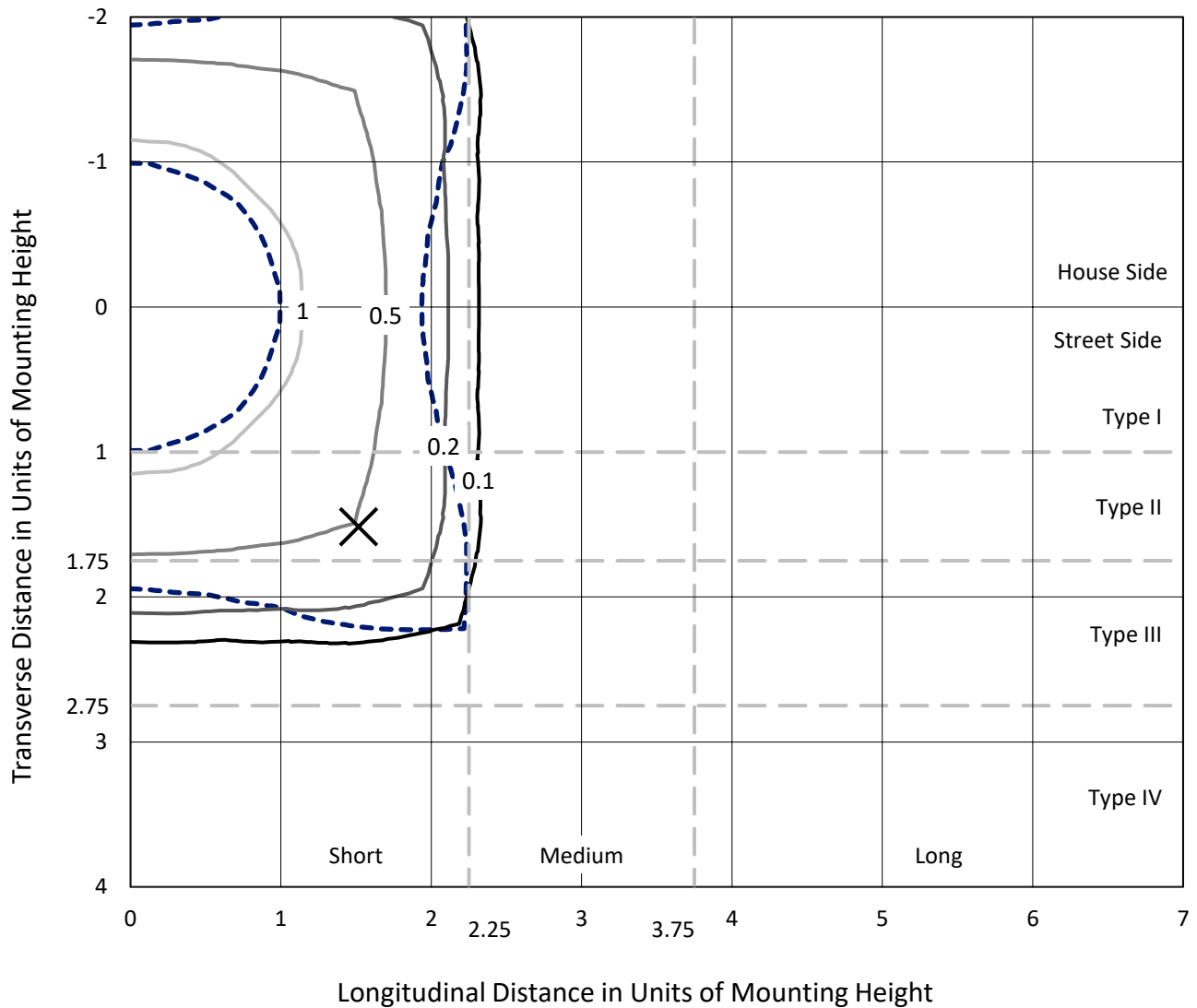
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

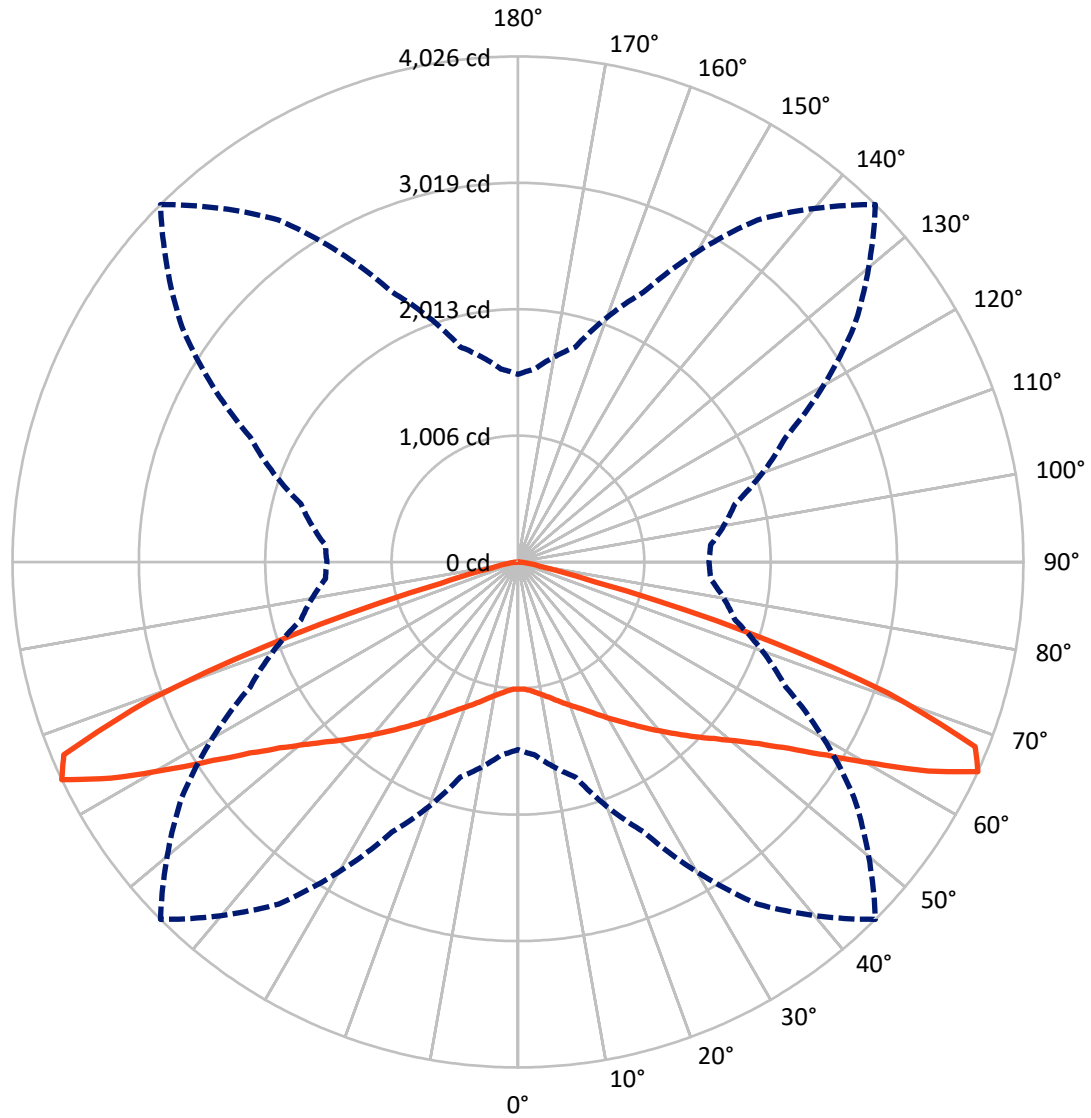
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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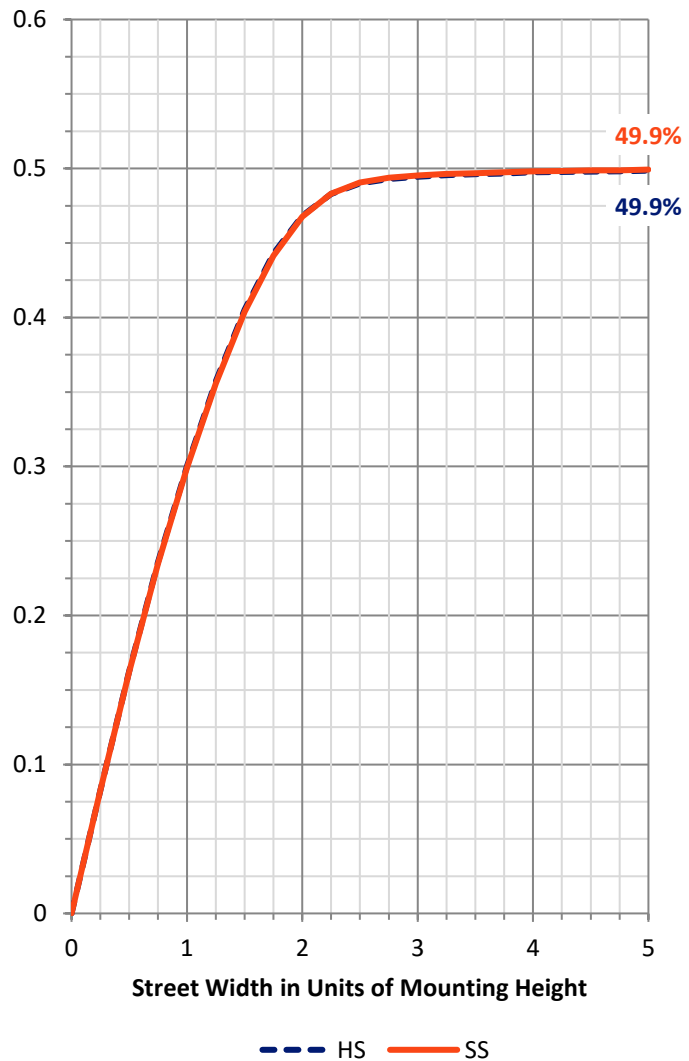
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4256.3 | 0.0 | 4256.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4256.3 | 0.0 | 4256.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8512.7 | 0.0 | 8512.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.0 | 1.2 |
| 10°-20° | 326.3 | 3.8 |
| 20°-30° | 616.0 | 7.2 |
| 30°-40° | 1008.7 | 11.8 |
| 40°-50° | 1564.0 | 18.4 |
| 50°-60° | 2310.3 | 27.1 |
| 60°-70° | 2199.2 | 25.8 |
| 70°-80° | 354.9 | 4.2 |
| 80°-90° | 33.5 | 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° | 8512.7 | 100.0 |
| 0°-180° | 8512.7 | 100.0 |

Coefficient of Utilization



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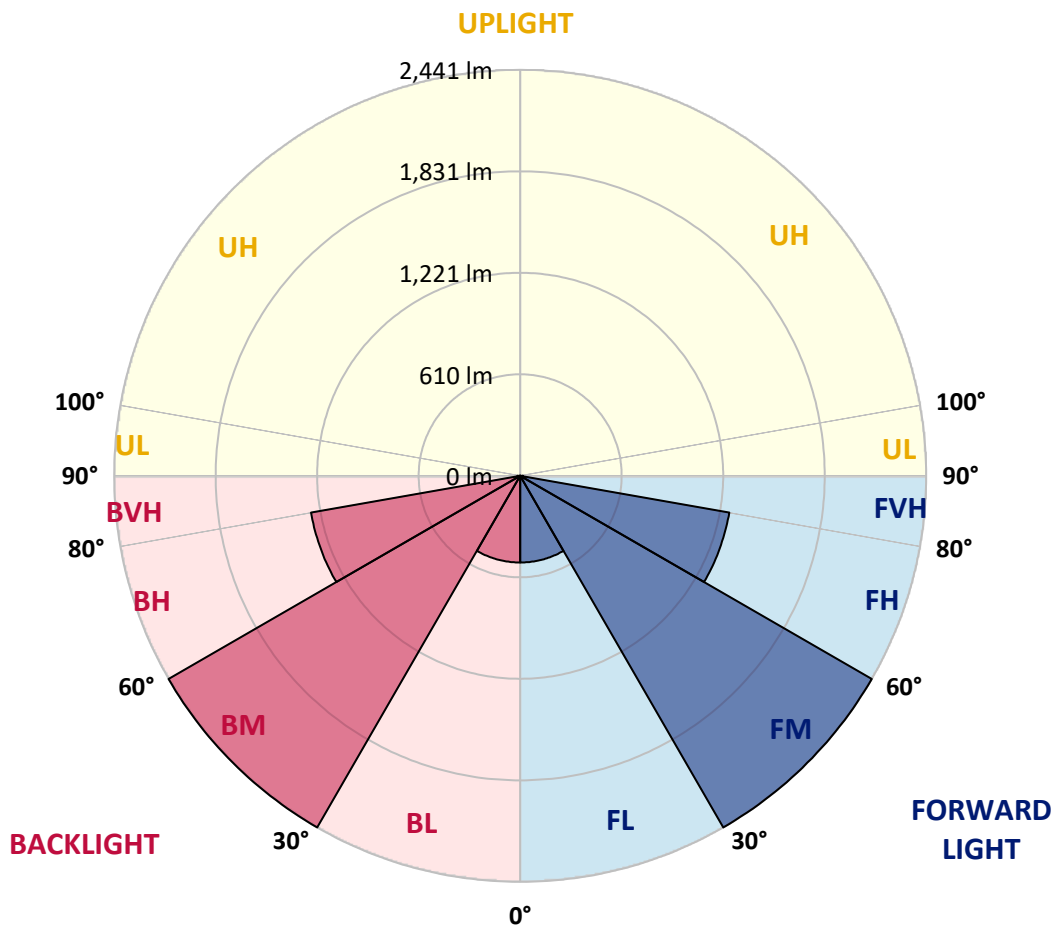
CATALOG NUMBER: NVN-SB1C-750-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 521.1 | 6.1 | | | |
| FM (30°-60°) | 2441.5 | 28.7 | | | |
| FH (60°-80°) | 1277.0 | 15.0 | | | G1/1800 |
| FVH (80°-90°) | 16.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 521.1 | 6.1 | B2/1000 | | |
| BM (30°-60°) | 2441.5 | 28.7 | B2/2500 | | |
| BH (60°-80°) | 1277.0 | 15.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 16.7 | 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° | 1013.1 | 1013.1 | 1013.1 | 1013.1 | 1013.1 | 1013.1 | 1013.1 | 1013.1 | 1013.1 | 1013.1 | 1013.1 |
| 2.5° | 1019.9 | 1016.5 | 1019.1 | 1016.9 | 1015.3 | 1013.5 | 1014.3 | 1017.3 | 1018.6 | 1019.1 | 1019.1 |
| 5° | 1033.6 | 1030.6 | 1031.9 | 1031.9 | 1028.9 | 1028.1 | 1028.5 | 1030.6 | 1033.2 | 1033.2 | 1033.2 |
| 7.5° | 1055.8 | 1052.8 | 1055.8 | 1054.1 | 1051.5 | 1050.6 | 1050.2 | 1052.0 | 1055.8 | 1055.8 | 1054.5 |
| 10° | 1082.7 | 1079.3 | 1081.0 | 1080.1 | 1077.2 | 1075.8 | 1075.4 | 1078.0 | 1081.4 | 1081.0 | 1080.1 |
| 12.5° | 1112.1 | 1108.3 | 1110.5 | 1107.9 | 1107.0 | 1105.8 | 1105.8 | 1105.4 | 1107.5 | 1105.8 | 1106.6 |
| 15° | 1145.0 | 1142.5 | 1143.4 | 1141.6 | 1143.0 | 1142.1 | 1138.7 | 1136.9 | 1137.9 | 1135.3 | 1135.7 |
| 17.5° | 1184.0 | 1177.9 | 1180.9 | 1180.1 | 1180.1 | 1181.8 | 1176.3 | 1174.1 | 1175.8 | 1173.2 | 1175.4 |
| 20° | 1228.8 | 1222.8 | 1224.1 | 1222.4 | 1220.3 | 1221.9 | 1215.1 | 1216.8 | 1218.1 | 1216.4 | 1220.3 |
| 22.5° | 1277.9 | 1270.2 | 1269.8 | 1270.6 | 1266.0 | 1266.4 | 1261.7 | 1266.0 | 1268.5 | 1263.8 | 1268.5 |
| 25° | 1328.3 | 1320.2 | 1325.7 | 1323.6 | 1317.6 | 1318.9 | 1315.5 | 1319.8 | 1321.8 | 1315.9 | 1322.8 |
| 27.5° | 1381.7 | 1376.2 | 1381.3 | 1382.5 | 1375.2 | 1380.4 | 1375.2 | 1379.1 | 1381.3 | 1372.3 | 1379.1 |
| 30° | 1444.0 | 1438.5 | 1443.2 | 1446.6 | 1438.1 | 1446.2 | 1441.9 | 1444.4 | 1444.8 | 1434.2 | 1440.6 |
| 32.5° | 1512.0 | 1503.4 | 1515.4 | 1517.1 | 1507.7 | 1517.5 | 1512.0 | 1515.4 | 1517.5 | 1503.0 | 1512.8 |
| 35° | 1594.8 | 1584.1 | 1597.8 | 1595.6 | 1587.5 | 1595.6 | 1590.5 | 1595.6 | 1600.7 | 1583.3 | 1594.0 |
| 37.5° | 1684.1 | 1673.0 | 1687.5 | 1683.7 | 1676.0 | 1681.5 | 1678.5 | 1681.9 | 1690.0 | 1671.3 | 1682.7 |
| 40° | 1782.3 | 1768.6 | 1788.3 | 1781.4 | 1774.2 | 1773.4 | 1775.0 | 1777.1 | 1787.8 | 1766.9 | 1773.8 |
| 42.5° | 1887.3 | 1872.9 | 1902.3 | 1891.6 | 1881.4 | 1874.5 | 1880.1 | 1884.4 | 1894.6 | 1871.1 | 1883.5 |
| 45° | 2007.4 | 1990.8 | 2029.2 | 2016.4 | 2000.1 | 1986.0 | 1995.0 | 2001.4 | 2016.4 | 1988.2 | 2002.6 |
| 47.5° | 2139.8 | 2121.0 | 2162.0 | 2158.1 | 2131.7 | 2100.9 | 2121.4 | 2139.8 | 2150.9 | 2116.7 | 2128.2 |
| 50° | 2269.2 | 2254.7 | 2308.5 | 2313.2 | 2280.7 | 2237.6 | 2266.2 | 2294.0 | 2296.9 | 2252.1 | 2257.7 |
| 52.5° | 2390.5 | 2376.0 | 2454.2 | 2483.6 | 2454.6 | 2403.3 | 2433.7 | 2461.8 | 2439.2 | 2381.1 | 2382.8 |
| 55° | 2487.5 | 2475.5 | 2575.0 | 2651.1 | 2660.9 | 2618.6 | 2636.5 | 2635.7 | 2561.4 | 2472.1 | 2475.1 |
| 57.5° | 2510.9 | 2509.2 | 2634.8 | 2795.8 | 2898.3 | 2903.4 | 2868.0 | 2777.4 | 2617.2 | 2497.3 | 2489.6 |
| 60° | 2404.1 | 2414.8 | 2587.4 | 2871.4 | 3144.8 | 3258.4 | 3105.0 | 2846.6 | 2553.7 | 2387.1 | 2367.4 |
| 62.5° | 2084.6 | 2112.8 | 2320.9 | 2779.2 | 3343.8 | 3666.6 | 3295.1 | 2741.6 | 2292.3 | 2074.9 | 2062.1 |
| 65° | 1494.0 | 1543.1 | 1772.9 | 2371.7 | 3325.8 | 4025.5 | 3267.8 | 2352.5 | 1790.0 | 1539.2 | 1520.9 |
| 67.5° | 677.8 | 727.7 | 923.0 | 1623.8 | 2891.0 | 3928.1 | 2884.2 | 1640.9 | 969.1 | 730.3 | 719.7 |
| 70° | 245.6 | 254.1 | 316.9 | 650.1 | 1847.7 | 3129.8 | 1926.7 | 654.8 | 337.0 | 270.8 | 267.3 |
| 72.5° | 148.6 | 150.0 | 163.2 | 232.8 | 642.0 | 1900.1 | 669.2 | 240.5 | 166.6 | 147.8 | 150.4 |
| 75° | 94.4 | 93.6 | 116.1 | 142.3 | 227.7 | 641.0 | 238.7 | 142.3 | 115.7 | 105.5 | 106.4 |
| 77.5° | 68.0 | 70.0 | 83.3 | 106.4 | 143.5 | 217.4 | 140.9 | 101.7 | 83.3 | 68.4 | 69.6 |
| 80° | 50.8 | 52.1 | 60.7 | 82.8 | 100.8 | 135.4 | 89.7 | 75.1 | 62.8 | 42.7 | 44.0 |
| 82.5° | 36.7 | 36.7 | 39.8 | 60.3 | 61.5 | 73.1 | 48.7 | 53.0 | 41.4 | 30.3 | 30.3 |
| 85° | 21.8 | 21.3 | 24.8 | 35.9 | 32.1 | 27.0 | 22.2 | 32.5 | 26.0 | 18.8 | 18.3 |
| 87.5° | 7.7 | 8.1 | 7.7 | 10.2 | 8.5 | 7.3 | 6.9 | 9.0 | 7.3 | 6.5 | 5.9 |
| 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)