

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: P960474

Luminaire Tested: **NVN-SB1C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6605.1 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

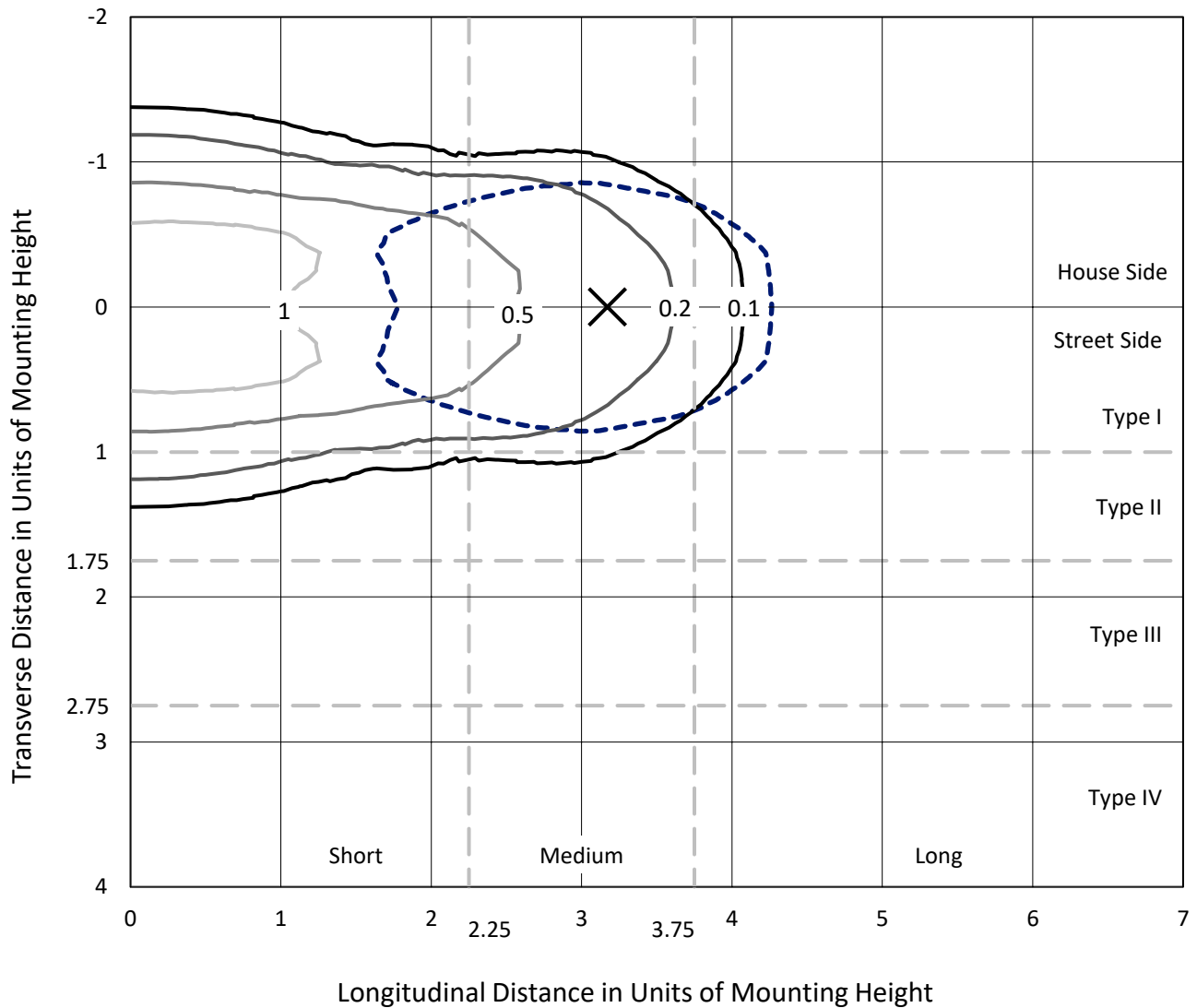
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

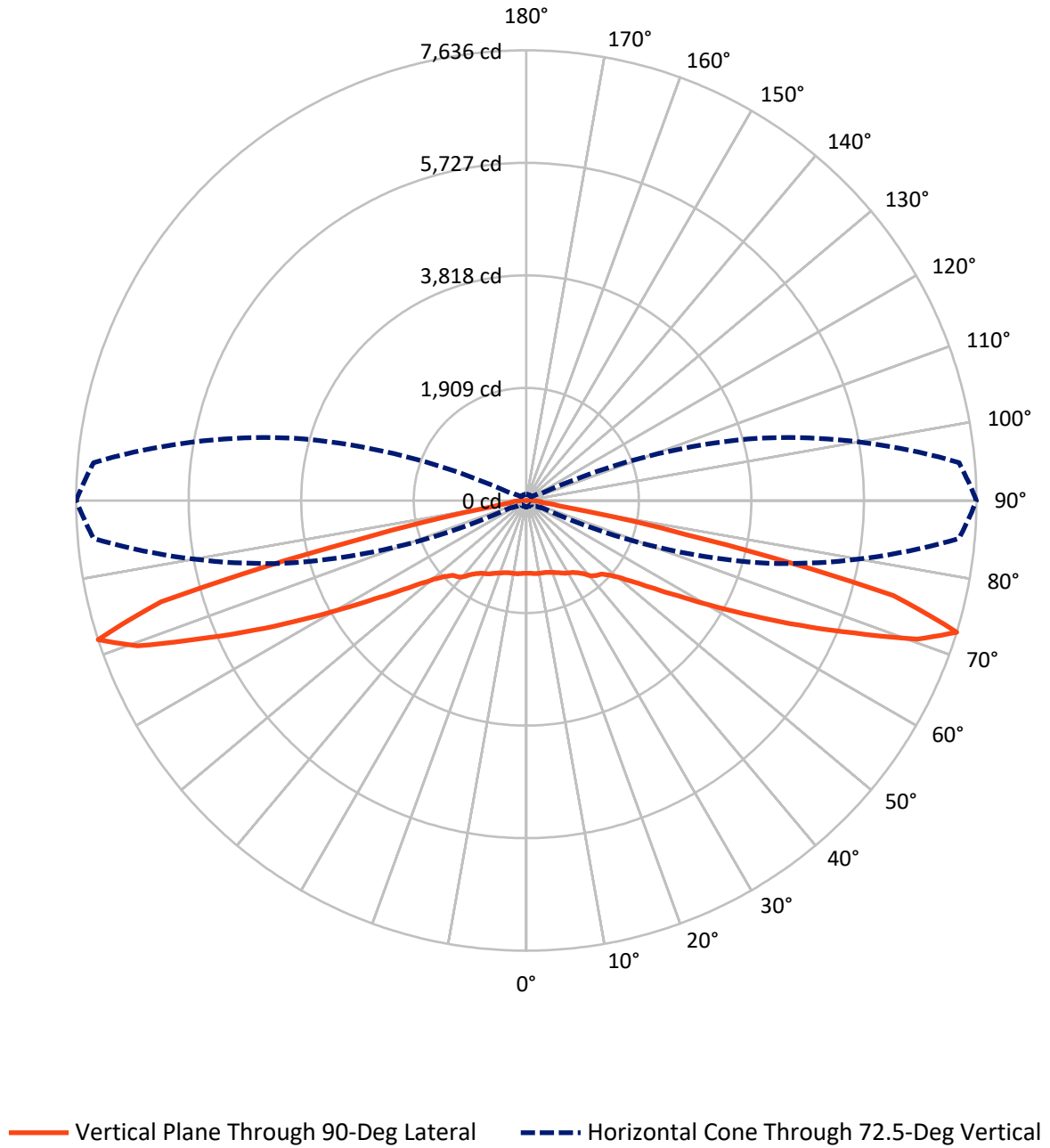
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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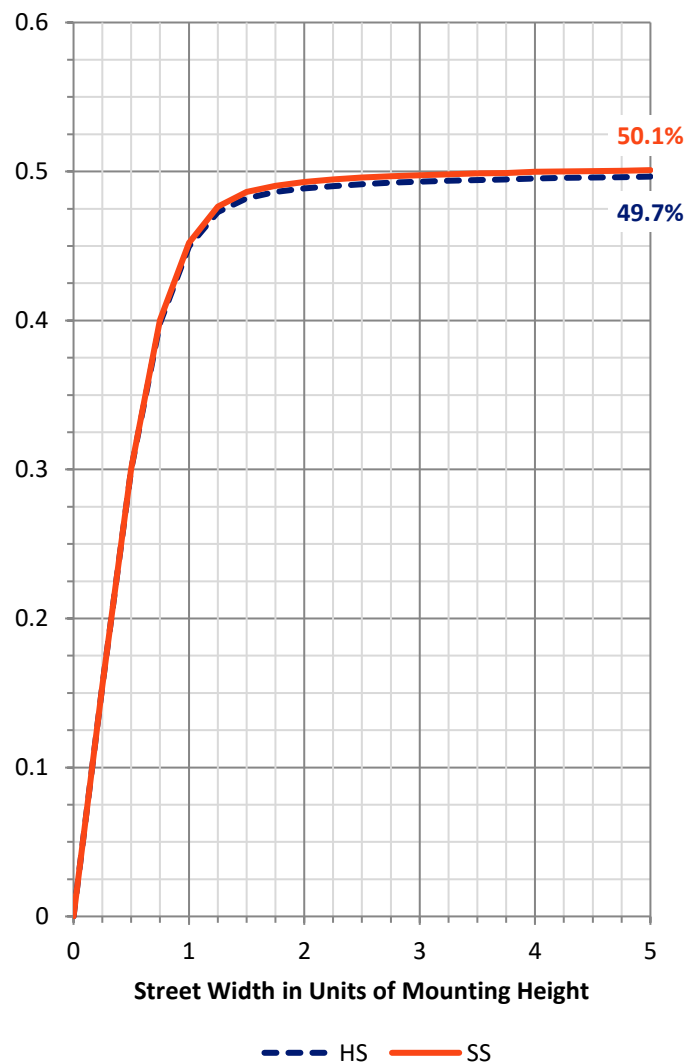
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3302.5 | 0.0 | 3302.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3302.5 | 0.0 | 3302.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6605.1 | 0.0 | 6605.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.7 | 1.8 |
| 10°-20° | 365.9 | 5.5 |
| 20°-30° | 610.1 | 9.2 |
| 30°-40° | 839.1 | 12.7 |
| 40°-50° | 1024.8 | 15.5 |
| 50°-60° | 1185.3 | 17.9 |
| 60°-70° | 1413.3 | 21.4 |
| 70°-80° | 986.4 | 14.9 |
| 80°-90° | 60.6 | 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° | 6605.1 | 100.0 |
| 0°-180° | 6605.1 | 100.0 |

Coefficient of Utilization



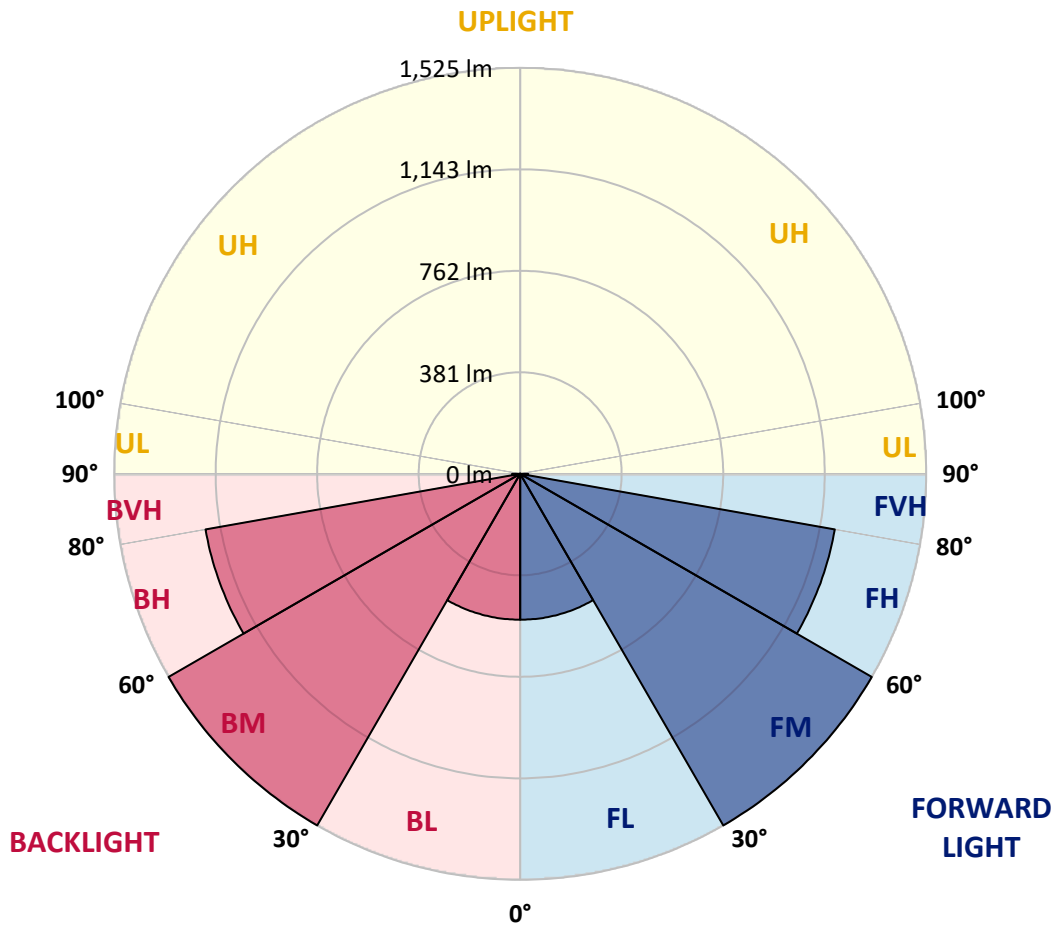
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 547.9 | 8.3 | | | |
| FM (30°-60°) | 1524.6 | 23.1 | | | |
| FH (60°-80°) | 1199.8 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 30.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 547.9 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1524.6 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1199.8 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 30.3 | 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 I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1234.2 | 1234.2 | 1234.2 | 1234.2 | 1234.2 | 1234.2 | 1234.2 | 1234.2 | 1234.2 | 1234.2 | 1234.2 |
| 2.5° | 1235.3 | 1236.7 | 1236.7 | 1235.6 | 1238.1 | 1235.9 | 1235.9 | 1234.9 | 1235.9 | 1234.9 | 1234.9 |
| 5° | 1241.6 | 1243.3 | 1244.0 | 1243.7 | 1246.9 | 1245.1 | 1245.1 | 1243.7 | 1244.0 | 1243.0 | 1243.0 |
| 7.5° | 1253.6 | 1256.0 | 1257.4 | 1259.1 | 1263.7 | 1261.6 | 1260.2 | 1256.0 | 1254.3 | 1251.4 | 1251.4 |
| 10° | 1257.4 | 1260.2 | 1264.7 | 1273.9 | 1284.4 | 1284.7 | 1280.5 | 1270.1 | 1262.0 | 1255.6 | 1254.6 |
| 12.5° | 1245.5 | 1249.4 | 1258.8 | 1277.5 | 1300.9 | 1310.4 | 1303.7 | 1286.2 | 1270.4 | 1259.1 | 1257.4 |
| 15° | 1230.4 | 1234.6 | 1249.0 | 1277.0 | 1311.8 | 1333.9 | 1333.2 | 1310.1 | 1284.7 | 1267.2 | 1264.4 |
| 17.5° | 1206.8 | 1211.0 | 1231.7 | 1271.1 | 1320.2 | 1356.8 | 1366.5 | 1342.7 | 1307.3 | 1283.7 | 1279.9 |
| 20° | 1164.4 | 1168.2 | 1197.0 | 1252.1 | 1323.1 | 1381.0 | 1406.6 | 1385.5 | 1341.3 | 1309.3 | 1303.4 |
| 22.5° | 1109.3 | 1115.2 | 1148.9 | 1219.4 | 1316.4 | 1406.2 | 1452.2 | 1437.9 | 1381.0 | 1336.7 | 1328.7 |
| 25° | 1050.3 | 1056.6 | 1095.9 | 1179.5 | 1299.2 | 1424.4 | 1506.2 | 1497.1 | 1425.9 | 1370.8 | 1359.6 |
| 27.5° | 999.4 | 1006.0 | 1048.9 | 1139.8 | 1272.5 | 1431.5 | 1559.6 | 1564.3 | 1480.3 | 1408.4 | 1396.5 |
| 30° | 959.4 | 965.7 | 1011.4 | 1107.8 | 1238.1 | 1424.4 | 1606.3 | 1637.9 | 1535.8 | 1440.9 | 1423.8 |
| 32.5° | 915.5 | 923.5 | 971.7 | 1068.9 | 1197.4 | 1407.6 | 1647.1 | 1717.6 | 1600.0 | 1476.1 | 1454.4 |
| 35° | 860.1 | 867.4 | 918.0 | 1015.6 | 1144.0 | 1380.6 | 1681.1 | 1806.0 | 1692.0 | 1529.4 | 1505.2 |
| 37.5° | 792.6 | 799.6 | 849.8 | 948.8 | 1091.0 | 1342.7 | 1707.0 | 1905.8 | 1801.5 | 1606.3 | 1574.0 |
| 40° | 724.9 | 731.5 | 778.6 | 874.4 | 1027.5 | 1294.3 | 1716.2 | 2003.4 | 1927.2 | 1712.0 | 1677.6 |
| 42.5° | 662.8 | 668.7 | 711.9 | 801.0 | 956.2 | 1232.5 | 1704.3 | 2088.3 | 2039.9 | 1785.8 | 1741.5 |
| 45° | 605.6 | 610.8 | 649.0 | 732.3 | 882.1 | 1157.3 | 1668.5 | 2179.6 | 2173.9 | 1838.3 | 1778.7 |
| 47.5° | 540.3 | 545.5 | 585.2 | 665.5 | 808.1 | 1069.3 | 1607.7 | 2269.5 | 2360.4 | 1957.7 | 1888.9 |
| 50° | 460.5 | 465.1 | 505.8 | 588.7 | 731.2 | 975.5 | 1523.5 | 2340.0 | 2595.5 | 2138.5 | 2052.2 |
| 52.5° | 366.1 | 371.0 | 410.7 | 493.5 | 639.9 | 874.7 | 1412.6 | 2386.0 | 2867.2 | 2402.5 | 2296.1 |
| 55° | 272.4 | 275.9 | 310.3 | 384.7 | 526.8 | 760.0 | 1273.6 | 2398.9 | 3175.4 | 2763.3 | 2630.3 |
| 57.5° | 197.6 | 199.8 | 221.8 | 277.4 | 399.4 | 616.4 | 1104.7 | 2365.3 | 3542.3 | 3226.0 | 3058.6 |
| 60° | 160.1 | 160.8 | 167.5 | 192.0 | 277.7 | 454.3 | 900.8 | 2249.5 | 3940.3 | 3822.4 | 3611.4 |
| 62.5° | 145.3 | 145.3 | 147.1 | 153.8 | 187.8 | 299.8 | 653.9 | 2009.3 | 4367.2 | 4576.1 | 4293.5 |
| 65° | 135.2 | 135.2 | 135.8 | 139.0 | 148.1 | 191.0 | 412.8 | 1618.3 | 4727.0 | 5458.9 | 5101.5 |
| 67.5° | 126.0 | 126.4 | 126.0 | 127.1 | 132.3 | 141.1 | 239.4 | 1117.7 | 4920.8 | 6373.8 | 5987.9 |
| 70° | 116.5 | 117.3 | 115.5 | 115.5 | 119.7 | 120.0 | 149.9 | 612.9 | 4760.0 | 7140.4 | 7038.9 |
| 72.5° | 105.3 | 106.4 | 103.5 | 102.8 | 106.0 | 104.7 | 112.6 | 294.2 | 4086.8 | 7369.2 | 7636.0 |
| 75° | 95.5 | 96.9 | 90.6 | 88.8 | 88.8 | 87.7 | 91.6 | 151.0 | 2652.4 | 6011.4 | 6429.8 |
| 77.5° | 86.7 | 89.5 | 79.3 | 73.7 | 72.3 | 69.2 | 74.7 | 92.4 | 1160.2 | 2822.3 | 2763.7 |
| 80° | 71.6 | 75.4 | 65.3 | 58.6 | 56.2 | 52.7 | 58.9 | 64.6 | 345.0 | 655.4 | 627.6 |
| 82.5° | 53.4 | 55.1 | 46.3 | 41.8 | 39.7 | 37.2 | 44.3 | 44.9 | 112.3 | 232.1 | 262.2 |
| 85° | 34.0 | 34.7 | 28.4 | 24.6 | 23.5 | 22.4 | 28.1 | 24.6 | 42.8 | 170.6 | 247.8 |
| 87.5° | 11.9 | 13.7 | 10.9 | 9.8 | 10.6 | 8.8 | 13.0 | 7.4 | 11.9 | 120.4 | 149.2 |
| 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)