

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: P970906

Luminaire Tested: **NVN-SB6C-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970906
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-SB6C-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51606.7 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

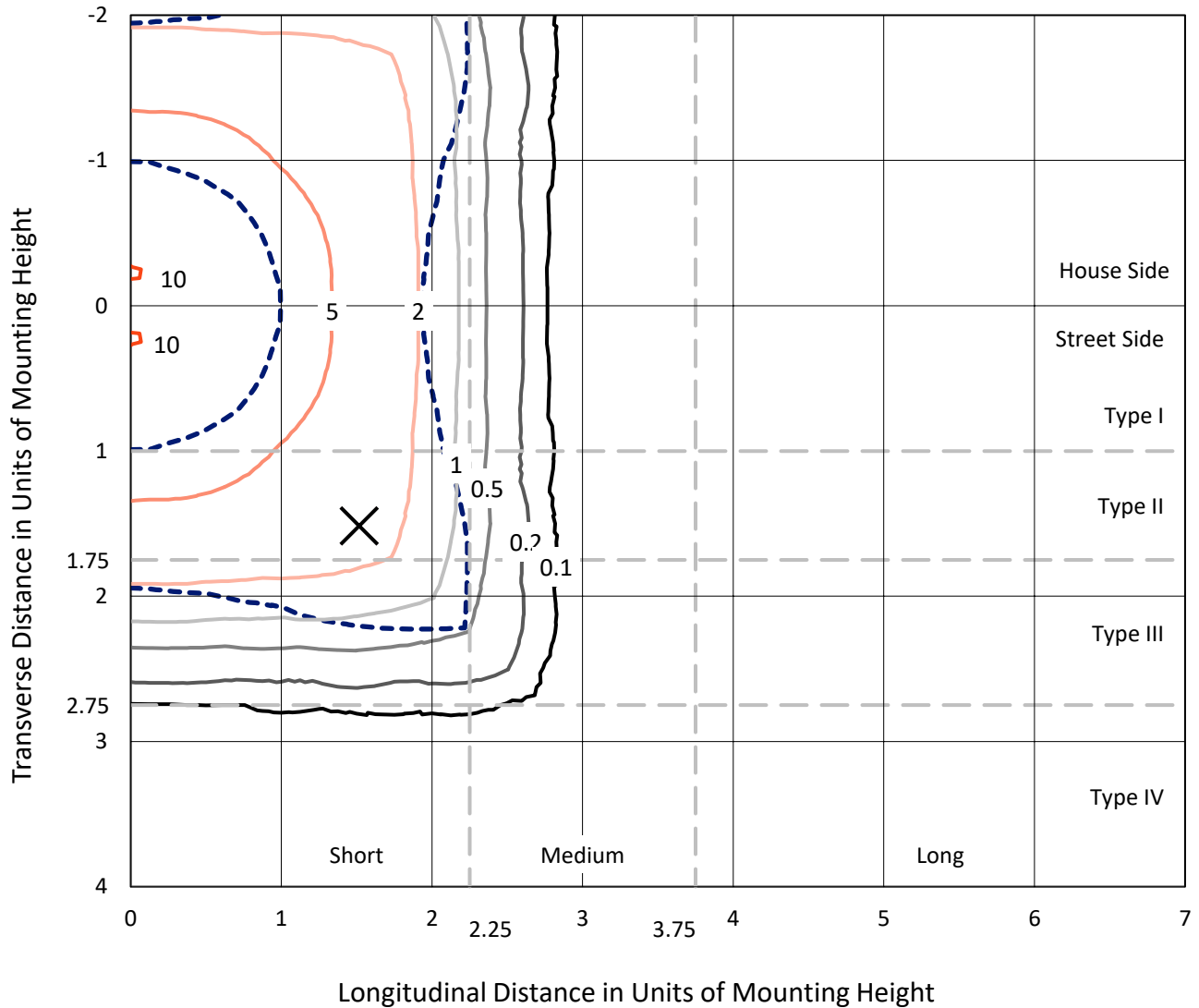
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

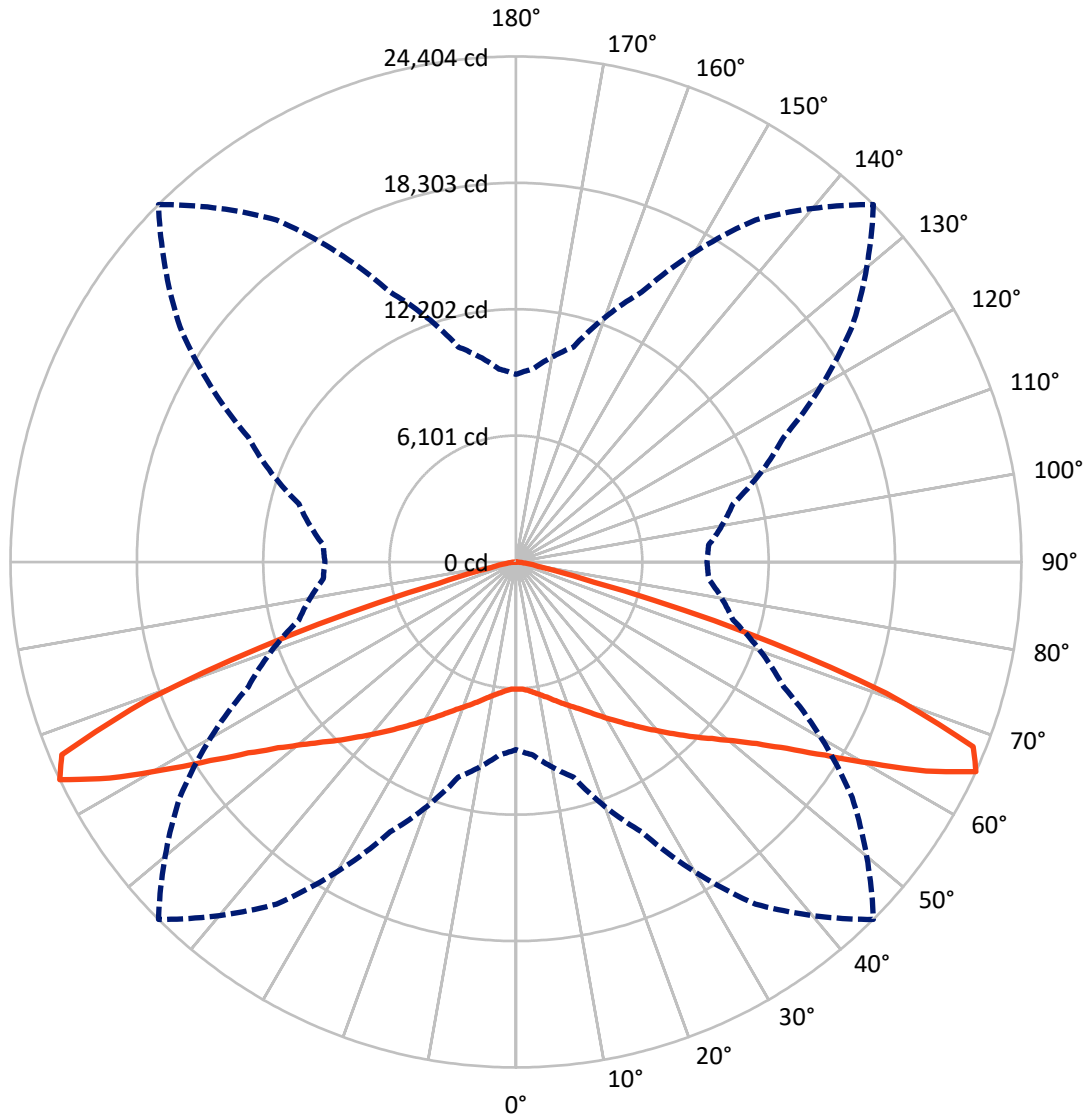
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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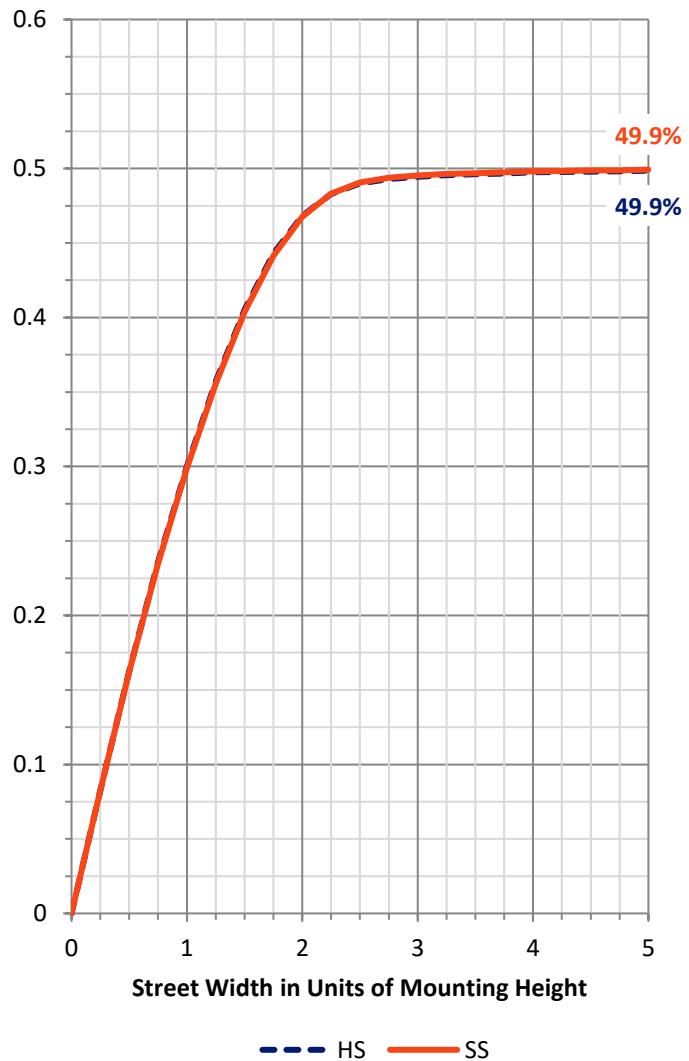
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 25803.4 | 0.0 | 25803.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 25803.4 | 0.0 | 25803.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 51606.7 | 0.0 | 51606.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 606.1 | 1.2 |
| 10°-20° | 1977.8 | 3.8 |
| 20°-30° | 3734.4 | 7.2 |
| 30°-40° | 6114.9 | 11.8 |
| 40°-50° | 9481.3 | 18.4 |
| 50°-60° | 14005.8 | 27.1 |
| 60°-70° | 13332.2 | 25.8 |
| 70°-80° | 2151.3 | 4.2 |
| 80°-90° | 202.8 | 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° | 51606.7 | 100.0 |
| 0°-180° | 51606.7 | 100.0 |

Coefficient of Utilization



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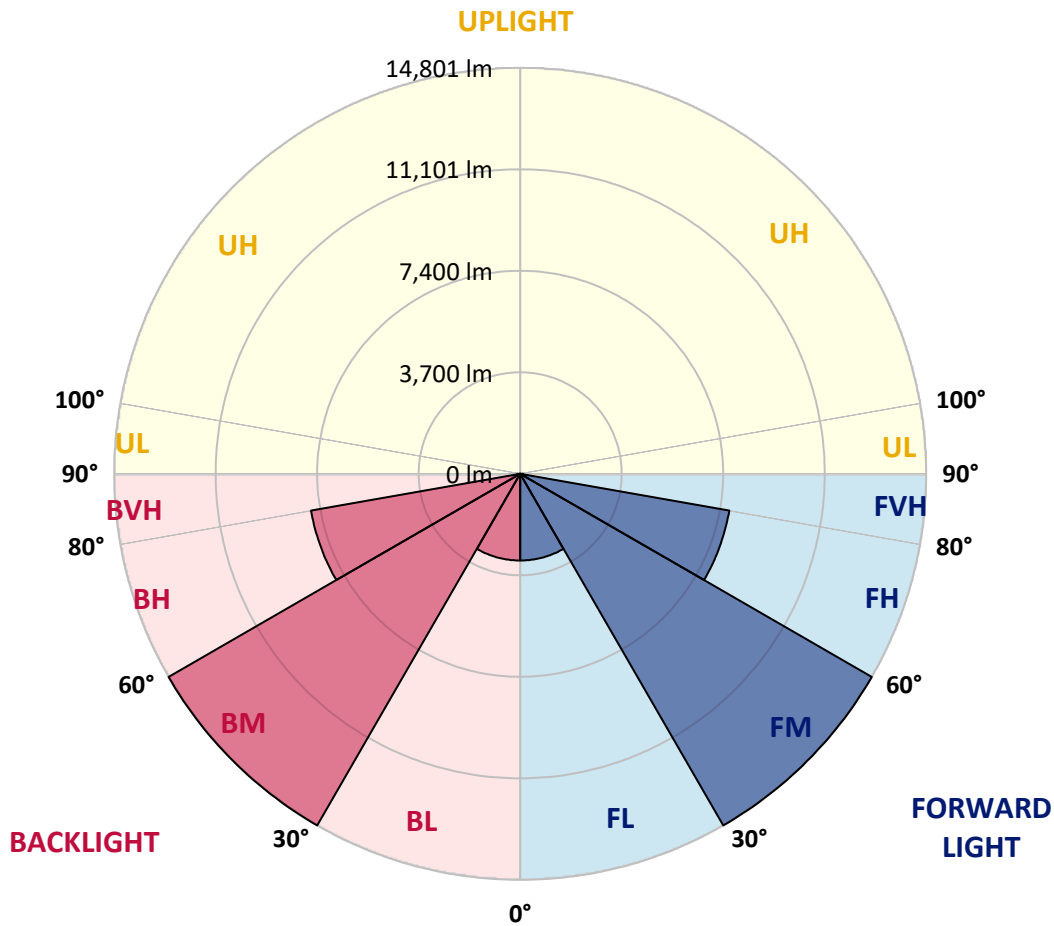
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3159.2 | 6.1 | | | |
| FM (30°-60°) | 14801.0 | 28.7 | | | |
| FH (60°-80°) | 7741.8 | 15.0 | | | G4/12000 |
| FVH (80°-90°) | 101.4 | 0.2 | | | G2/225 |
| BL (0°-30°) | 3159.2 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 14801.0 | 28.7 | B5 | | |
| BH (60°-80°) | 7741.8 | 15.0 | B5 | | G4/12000 |
| BVH (80°-90°) | 101.4 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6141.7 | 6141.7 | 6141.7 | 6141.7 | 6141.7 | 6141.7 | 6141.7 | 6141.7 | 6141.7 | 6141.7 | 6141.7 |
| 2.5° | 6183.1 | 6162.4 | 6178.0 | 6165.1 | 6154.6 | 6144.3 | 6149.5 | 6167.6 | 6175.4 | 6178.0 | 6178.0 |
| 5° | 6266.0 | 6247.9 | 6255.7 | 6255.7 | 6237.5 | 6232.3 | 6235.0 | 6247.9 | 6263.4 | 6263.4 | 6263.4 |
| 7.5° | 6400.6 | 6382.5 | 6400.6 | 6390.3 | 6374.8 | 6369.6 | 6367.0 | 6377.3 | 6400.6 | 6400.6 | 6392.8 |
| 10° | 6563.8 | 6543.1 | 6553.4 | 6548.2 | 6530.1 | 6522.4 | 6519.7 | 6535.3 | 6556.0 | 6553.4 | 6548.2 |
| 12.5° | 6742.4 | 6719.1 | 6732.1 | 6716.5 | 6711.4 | 6703.6 | 6703.6 | 6701.0 | 6714.0 | 6703.6 | 6708.7 |
| 15° | 6941.8 | 6926.2 | 6931.5 | 6921.1 | 6928.9 | 6923.7 | 6903.0 | 6892.6 | 6897.7 | 6882.3 | 6884.8 |
| 17.5° | 7177.5 | 7141.2 | 7159.3 | 7154.1 | 7154.1 | 7164.4 | 7130.8 | 7117.9 | 7128.3 | 7112.7 | 7125.6 |
| 20° | 7449.3 | 7413.0 | 7420.8 | 7410.4 | 7397.5 | 7407.9 | 7366.5 | 7376.8 | 7384.5 | 7374.2 | 7397.5 |
| 22.5° | 7747.1 | 7700.4 | 7697.9 | 7703.1 | 7674.6 | 7677.1 | 7648.7 | 7674.6 | 7690.1 | 7661.6 | 7690.1 |
| 25° | 8052.6 | 8003.4 | 8037.0 | 8024.1 | 7987.8 | 7995.6 | 7974.9 | 8000.8 | 8013.8 | 7977.5 | 8018.9 |
| 27.5° | 8376.2 | 8342.6 | 8373.6 | 8381.4 | 8337.5 | 8368.5 | 8337.5 | 8360.7 | 8373.6 | 8319.3 | 8360.7 |
| 30° | 8754.3 | 8720.6 | 8749.1 | 8769.8 | 8718.0 | 8767.2 | 8741.3 | 8756.9 | 8759.4 | 8694.8 | 8733.5 |
| 32.5° | 9166.0 | 9114.2 | 9186.7 | 9197.0 | 9140.0 | 9199.6 | 9166.0 | 9186.7 | 9199.6 | 9111.6 | 9171.2 |
| 35° | 9668.3 | 9603.5 | 9686.5 | 9673.4 | 9624.2 | 9673.4 | 9642.4 | 9673.4 | 9704.5 | 9598.4 | 9663.1 |
| 37.5° | 10209.4 | 10142.1 | 10230.1 | 10206.8 | 10160.2 | 10193.9 | 10175.8 | 10196.5 | 10245.7 | 10131.7 | 10201.6 |
| 40° | 10804.9 | 10722.1 | 10841.2 | 10799.8 | 10755.7 | 10750.6 | 10761.0 | 10773.9 | 10838.7 | 10711.8 | 10753.2 |
| 42.5° | 11441.9 | 11353.9 | 11532.6 | 11467.8 | 11405.7 | 11364.3 | 11397.9 | 11423.8 | 11485.9 | 11343.6 | 11418.6 |
| 45° | 12169.5 | 12068.6 | 12301.5 | 12223.8 | 12125.4 | 12040.1 | 12094.4 | 12133.2 | 12223.8 | 12053.0 | 12141.0 |
| 47.5° | 12972.2 | 12858.2 | 13106.8 | 13083.5 | 12923.0 | 12736.5 | 12860.9 | 12972.2 | 13039.5 | 12832.4 | 12902.3 |
| 50° | 13756.7 | 13668.7 | 13994.9 | 14023.4 | 13826.6 | 13565.2 | 13738.6 | 13906.9 | 13925.0 | 13653.1 | 13686.8 |
| 52.5° | 14492.1 | 14404.0 | 14877.9 | 15056.5 | 14880.4 | 14569.8 | 14753.5 | 14924.5 | 14787.3 | 14435.1 | 14445.4 |
| 55° | 15079.8 | 15007.3 | 15610.6 | 16071.5 | 16131.0 | 15874.7 | 15983.4 | 15978.3 | 15527.7 | 14986.6 | 15004.8 |
| 57.5° | 15222.3 | 15211.9 | 15973.1 | 16949.3 | 17570.7 | 17601.7 | 17386.9 | 16837.9 | 15867.0 | 15139.4 | 15092.8 |
| 60° | 14574.9 | 14639.7 | 15685.7 | 17407.6 | 19064.7 | 19753.4 | 18823.9 | 17257.4 | 15481.2 | 14471.4 | 14352.3 |
| 62.5° | 12638.1 | 12809.0 | 14070.0 | 16848.3 | 20271.3 | 22228.8 | 19976.1 | 16620.5 | 13896.5 | 12578.6 | 12500.9 |
| 65° | 9057.2 | 9355.0 | 10748.0 | 14378.1 | 20162.6 | 24403.7 | 19810.4 | 14261.6 | 10851.6 | 9331.7 | 9220.4 |
| 67.5° | 4109.1 | 4412.1 | 5595.4 | 9844.3 | 17526.7 | 23813.4 | 17485.3 | 9947.9 | 5875.0 | 4427.6 | 4362.9 |
| 70° | 1488.8 | 1540.6 | 1921.3 | 3940.8 | 11201.1 | 18974.1 | 11680.1 | 3969.3 | 2042.9 | 1641.5 | 1620.8 |
| 72.5° | 901.1 | 908.9 | 989.1 | 1411.1 | 3891.6 | 11519.6 | 4057.4 | 1457.8 | 1009.8 | 895.8 | 911.4 |
| 75° | 572.3 | 567.0 | 704.3 | 862.2 | 1380.1 | 3886.5 | 1447.4 | 862.2 | 701.7 | 639.5 | 644.7 |
| 77.5° | 411.7 | 424.7 | 504.9 | 644.7 | 870.0 | 1317.9 | 854.4 | 616.2 | 504.9 | 414.3 | 422.1 |
| 80° | 308.1 | 315.9 | 367.7 | 502.4 | 611.1 | 820.8 | 543.8 | 455.7 | 380.6 | 258.9 | 266.7 |
| 82.5° | 222.6 | 222.6 | 240.8 | 365.1 | 372.9 | 442.8 | 295.2 | 321.0 | 251.1 | 183.9 | 183.9 |
| 85° | 132.0 | 129.5 | 150.2 | 217.5 | 194.2 | 163.1 | 134.7 | 196.8 | 158.0 | 113.9 | 111.3 |
| 87.5° | 46.6 | 49.2 | 46.6 | 62.1 | 51.8 | 44.0 | 41.4 | 54.3 | 44.0 | 38.8 | 36.3 |
| 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)