

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: P969205

Luminaire Tested: **NVN-SB5D-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969205
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-SB5D-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44820.2 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

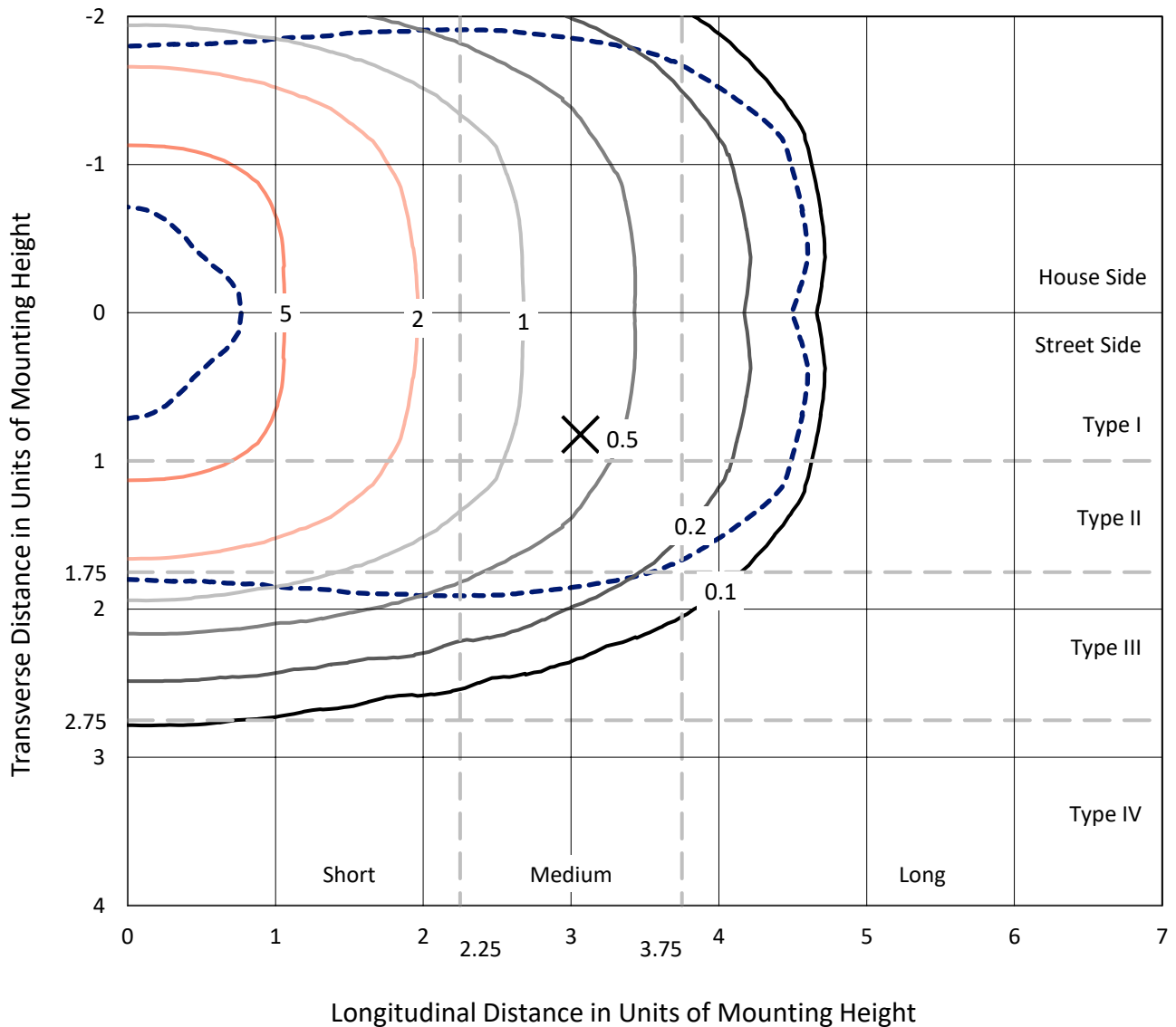
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969205
 CATALOG NUMBER: NVN-SB5D-722-U-RW

Iso-Footcandle Lines of Horizontal Illumination

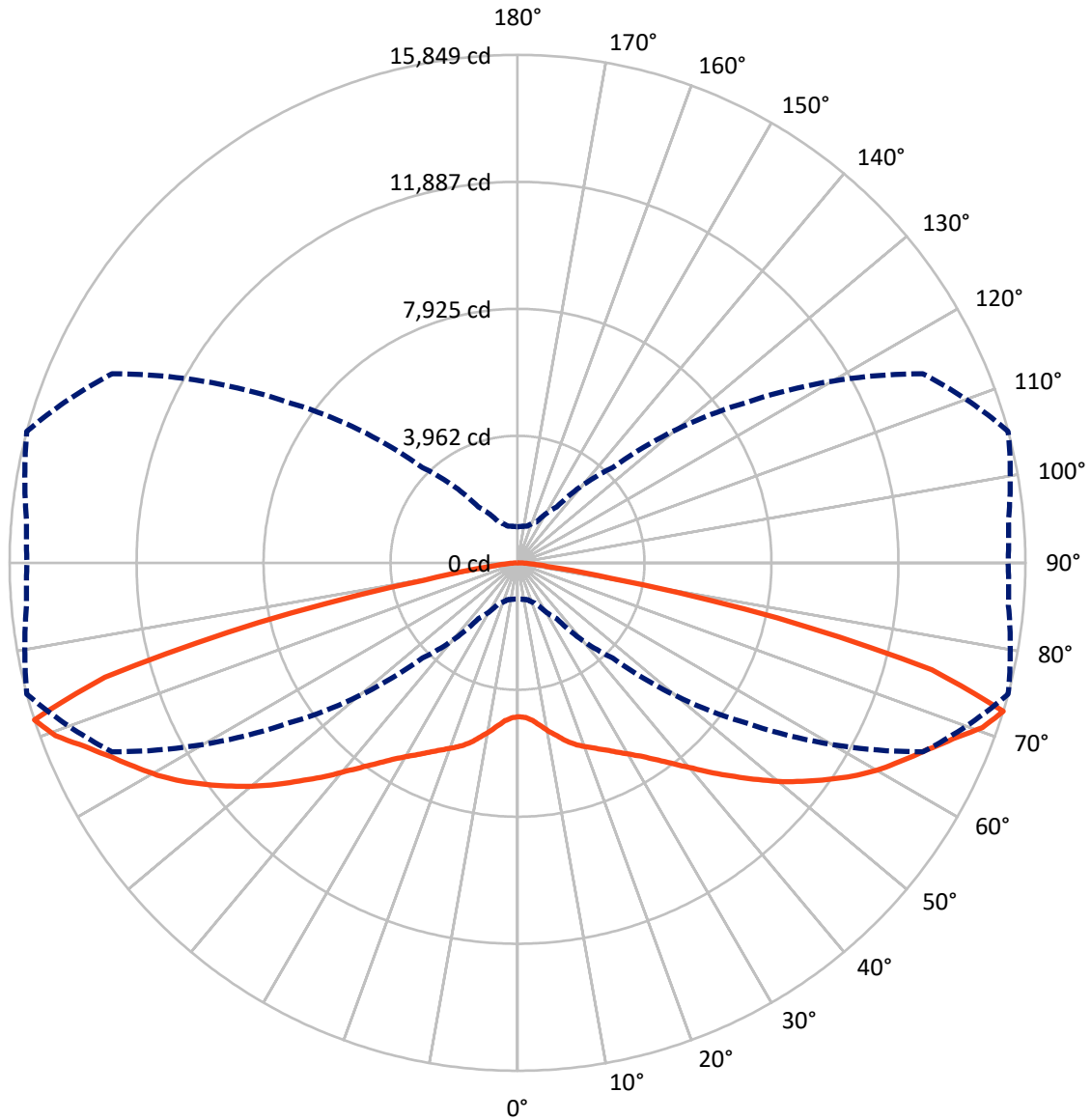
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P969205
CATALOG NUMBER: NVN-SB5D-722-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P969205
 CATALOG NUMBER: NVN-SB5D-722-U-RW

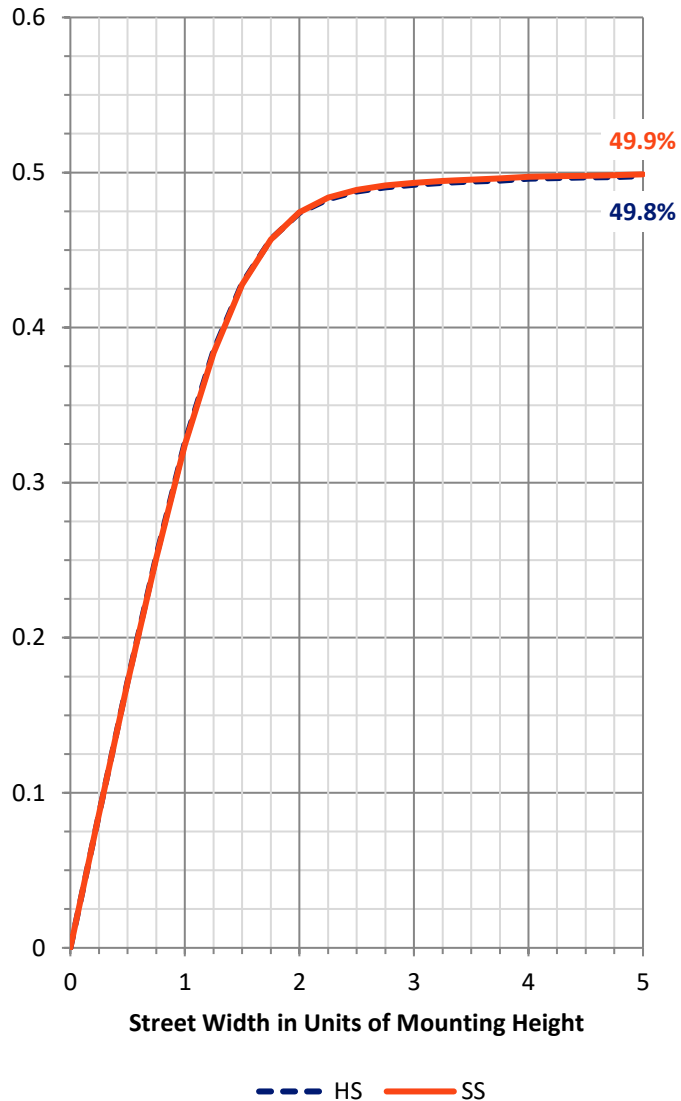
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22410.1 | 0.0 | 22410.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22410.1 | 0.0 | 22410.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44820.2 | 0.0 | 44820.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 470.3 | 1.0 |
| 10°-20° | 1551.2 | 3.5 |
| 20°-30° | 2997.3 | 6.7 |
| 30°-40° | 5061.1 | 11.3 |
| 40°-50° | 8026.3 | 17.9 |
| 50°-60° | 10746.3 | 24.0 |
| 60°-70° | 10227.1 | 22.8 |
| 70°-80° | 5336.6 | 11.9 |
| 80°-90° | 404.0 | 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° | 44820.2 | 100.0 |
| 0°-180° | 44820.2 | 100.0 |

Coefficient of Utilization

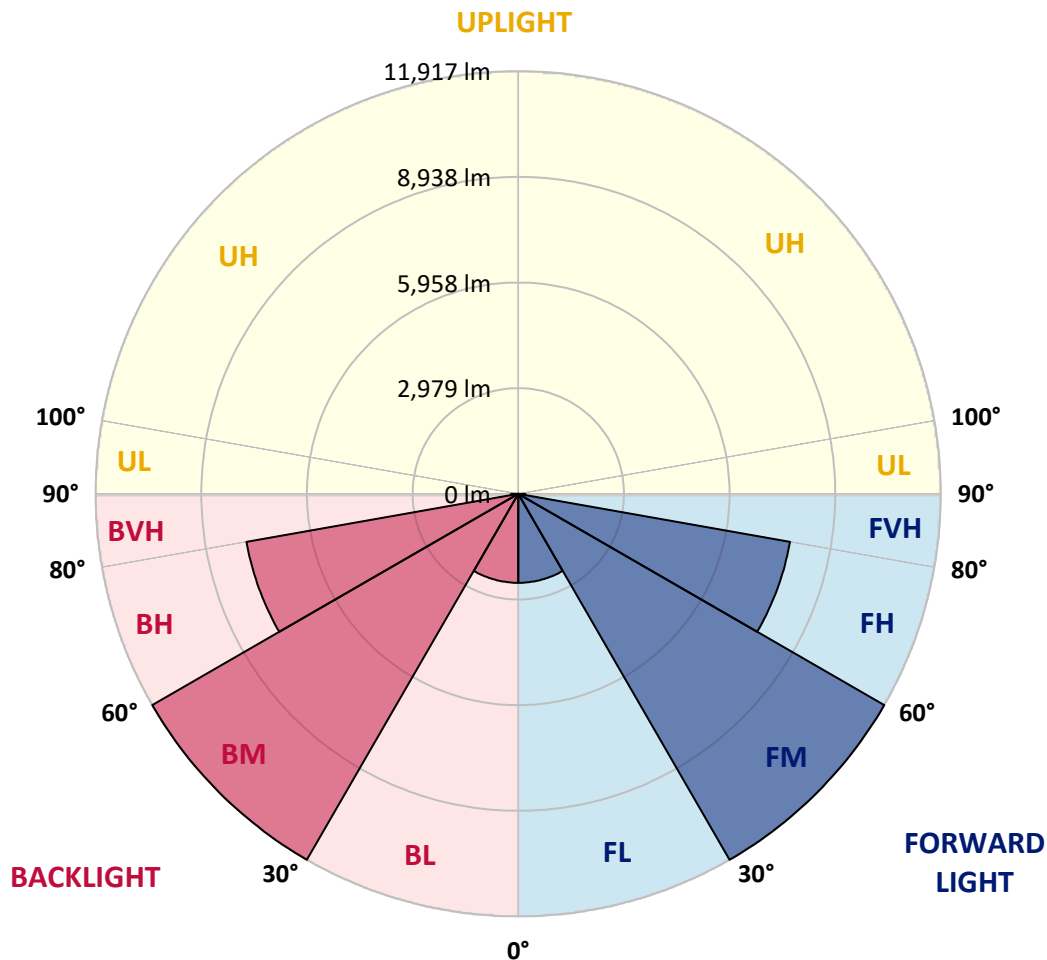


REPORT NUMBER: P969205
 CATALOG NUMBER: NVN-SB5D-722-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2509.4 | 5.6 | | | |
| FM (30°-60°) | 11916.9 | 26.6 | | | |
| FH (60°-80°) | 7781.8 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 202.0 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2509.4 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 11916.9 | 26.6 | B5 | | |
| BH (60°-80°) | 7781.8 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 202.0 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type III Medium



REPORT NUMBER: P969205
 CATALOG NUMBER: NVN-SB5D-722-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4801.0 | 4801.0 | 4801.0 | 4801.0 | 4801.0 | 4801.0 | 4801.0 | 4801.0 | 4801.0 | 4801.0 | 4801.0 |
| 2.5° | 4801.0 | 4796.5 | 4801.0 | 4805.6 | 4803.4 | 4803.4 | 4814.7 | 4821.6 | 4835.3 | 4833.1 | 4830.8 |
| 5° | 4769.0 | 4766.8 | 4785.0 | 4805.6 | 4821.6 | 4849.1 | 4883.4 | 4908.6 | 4940.6 | 4947.5 | 4947.5 |
| 7.5° | 4753.0 | 4746.2 | 4778.1 | 4814.7 | 4865.2 | 4933.7 | 5000.2 | 5068.8 | 5123.7 | 5142.0 | 5146.6 |
| 10° | 4764.4 | 4766.8 | 4810.2 | 4878.9 | 4959.0 | 5055.1 | 5148.9 | 5265.6 | 5343.4 | 5361.7 | 5380.0 |
| 12.5° | 4817.1 | 4812.5 | 4885.7 | 4995.5 | 5105.4 | 5226.7 | 5336.6 | 5464.7 | 5549.3 | 5592.8 | 5611.2 |
| 15° | 4913.1 | 4904.0 | 5007.0 | 5169.5 | 5329.7 | 5471.6 | 5560.8 | 5682.1 | 5780.5 | 5835.4 | 5856.0 |
| 17.5° | 5027.6 | 5032.1 | 5167.2 | 5377.8 | 5588.3 | 5748.4 | 5833.1 | 5894.9 | 5970.4 | 6018.5 | 6041.3 |
| 20° | 5228.9 | 5238.2 | 5389.1 | 5638.6 | 5878.9 | 6062.0 | 6130.6 | 6107.7 | 6128.3 | 6165.0 | 6192.4 |
| 22.5° | 5499.0 | 5503.5 | 5673.0 | 5943.0 | 6194.7 | 6396.0 | 6441.8 | 6348.0 | 6290.8 | 6315.9 | 6334.3 |
| 25° | 5812.5 | 5842.3 | 6011.6 | 6288.5 | 6547.1 | 6739.3 | 6759.9 | 6618.0 | 6476.2 | 6483.0 | 6494.5 |
| 27.5° | 6194.7 | 6222.2 | 6393.7 | 6668.3 | 6931.6 | 7098.6 | 7096.3 | 6906.3 | 6698.1 | 6645.5 | 6661.5 |
| 30° | 6608.9 | 6638.6 | 6814.8 | 7098.6 | 7343.4 | 7489.9 | 7457.9 | 7231.3 | 6933.8 | 6835.4 | 6846.9 |
| 32.5° | 7100.9 | 7119.1 | 7297.7 | 7581.4 | 7807.9 | 7924.7 | 7858.4 | 7579.2 | 7208.4 | 7096.3 | 7123.7 |
| 35° | 7695.9 | 7723.3 | 7856.0 | 8123.7 | 8322.9 | 8418.9 | 8306.9 | 7977.4 | 7560.8 | 7434.9 | 7453.3 |
| 37.5° | 8375.5 | 8357.2 | 8508.2 | 8746.2 | 8911.0 | 8970.5 | 8817.2 | 8425.8 | 7963.6 | 7814.8 | 7842.3 |
| 40° | 9084.9 | 9075.8 | 9240.5 | 9469.4 | 9558.6 | 9595.2 | 9368.7 | 8940.8 | 8428.2 | 8268.0 | 8320.5 |
| 42.5° | 9728.0 | 9721.1 | 9943.0 | 10197.1 | 10304.6 | 10263.4 | 9977.3 | 9487.7 | 8965.9 | 8782.8 | 8828.6 |
| 45° | 10242.8 | 10233.7 | 10506.0 | 10862.9 | 11073.5 | 11004.9 | 10620.4 | 10091.8 | 9510.6 | 9320.6 | 9364.1 |
| 47.5° | 10638.7 | 10643.3 | 10936.2 | 11377.9 | 11746.3 | 11771.5 | 11277.2 | 10707.4 | 10110.1 | 9895.0 | 9959.1 |
| 50° | 10924.8 | 10938.5 | 11252.0 | 11741.7 | 12245.2 | 12467.2 | 11947.7 | 11339.0 | 10730.2 | 10487.7 | 10560.9 |
| 52.5° | 10995.7 | 11020.9 | 11398.5 | 11972.8 | 12565.6 | 12988.9 | 12629.6 | 11945.3 | 11318.4 | 11087.2 | 11146.8 |
| 55° | 10618.2 | 10668.5 | 11146.8 | 11954.6 | 12762.4 | 13332.2 | 13229.2 | 12561.0 | 11911.1 | 11673.1 | 11739.4 |
| 57.5° | 9750.8 | 9821.8 | 10380.2 | 11435.1 | 12718.9 | 13567.8 | 13693.7 | 13151.4 | 12503.8 | 12274.9 | 12327.6 |
| 60° | 8535.7 | 8620.4 | 9155.8 | 10306.9 | 12105.6 | 13654.8 | 14021.0 | 13725.8 | 13048.4 | 12826.4 | 12874.5 |
| 62.5° | 6702.7 | 6812.6 | 7453.3 | 8803.4 | 10810.4 | 13249.8 | 14300.2 | 14245.2 | 13538.1 | 13261.2 | 13293.2 |
| 65° | 4299.9 | 4416.6 | 5091.7 | 6686.7 | 9082.6 | 12009.5 | 14387.1 | 14751.0 | 14055.3 | 13668.6 | 13716.7 |
| 67.5° | 2592.7 | 2645.4 | 2979.5 | 4052.7 | 6638.6 | 10139.8 | 13650.2 | 15311.7 | 14659.4 | 14178.8 | 14215.5 |
| 70° | 1659.1 | 1688.8 | 1887.9 | 2379.9 | 3752.9 | 7398.3 | 11824.1 | 15416.9 | 15391.7 | 14702.9 | 14698.3 |
| 72.5° | 1125.9 | 1135.1 | 1187.7 | 1409.7 | 2123.6 | 4203.7 | 8721.0 | 13956.9 | 15849.4 | 15378.0 | 15304.8 |
| 75° | 823.8 | 874.1 | 958.8 | 997.7 | 1206.0 | 2100.7 | 4997.8 | 9805.8 | 13357.3 | 13563.3 | 13064.4 |
| 77.5° | 613.3 | 615.6 | 732.3 | 778.1 | 860.4 | 1119.0 | 2114.5 | 5473.8 | 8293.2 | 8707.4 | 7766.8 |
| 80° | 519.5 | 492.0 | 489.7 | 627.0 | 647.6 | 697.9 | 945.2 | 1890.2 | 2970.3 | 1800.9 | 1361.6 |
| 82.5° | 432.6 | 402.7 | 363.9 | 489.7 | 441.7 | 427.9 | 409.6 | 768.9 | 945.2 | 464.5 | 395.9 |
| 85° | 302.1 | 288.3 | 274.6 | 320.4 | 251.7 | 215.1 | 196.8 | 359.3 | 398.2 | 196.8 | 173.9 |
| 87.5° | 130.5 | 135.0 | 137.4 | 141.9 | 105.3 | 75.5 | 75.5 | 100.7 | 100.7 | 77.8 | 57.2 |
| 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)