

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: P969851

Luminaire Tested: **NVN-SB6A-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30892.5 lumens
Efficiency: N/A
Efficacy: 180.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

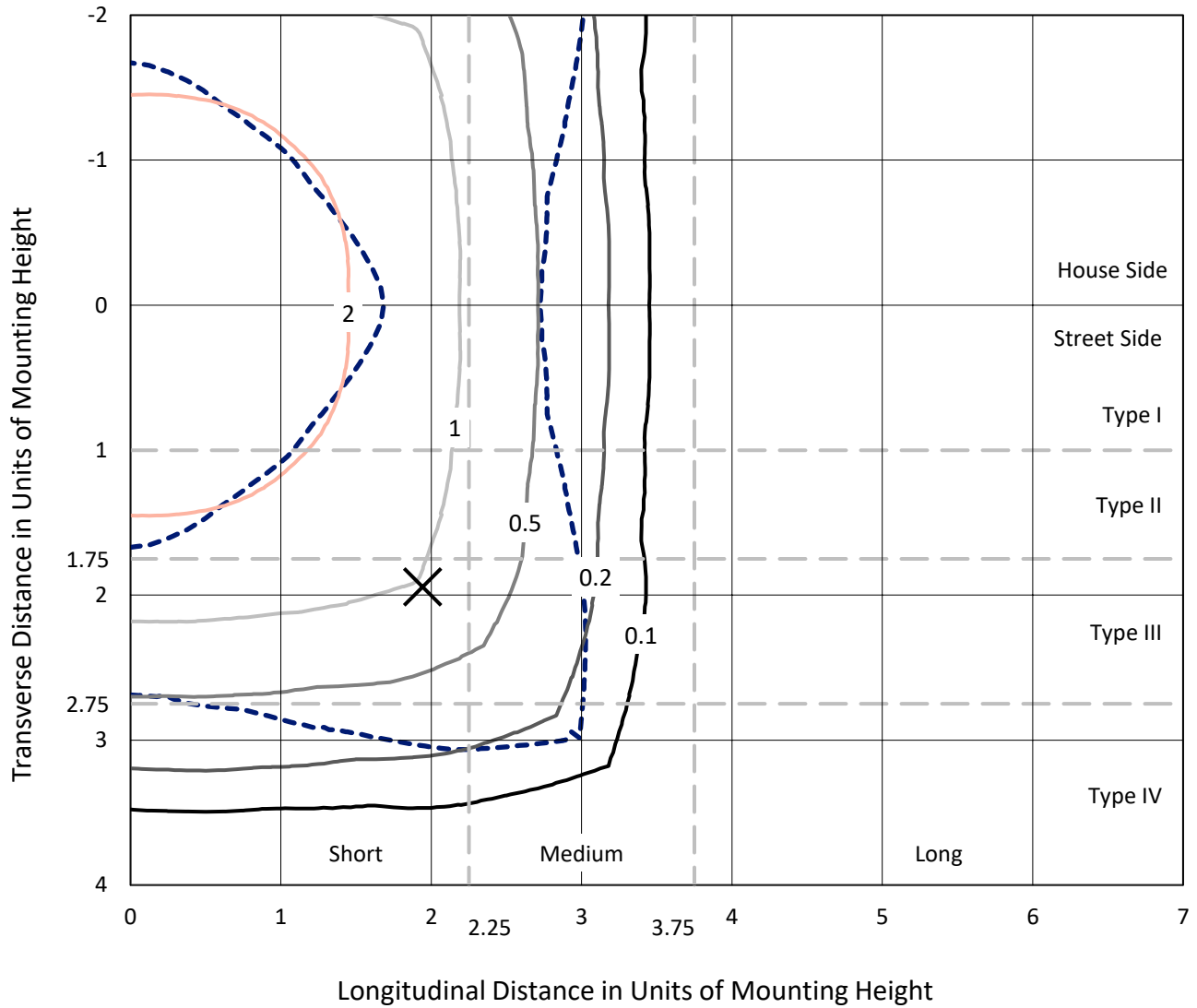
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969851
 CATALOG NUMBER: NVN-SB6A-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

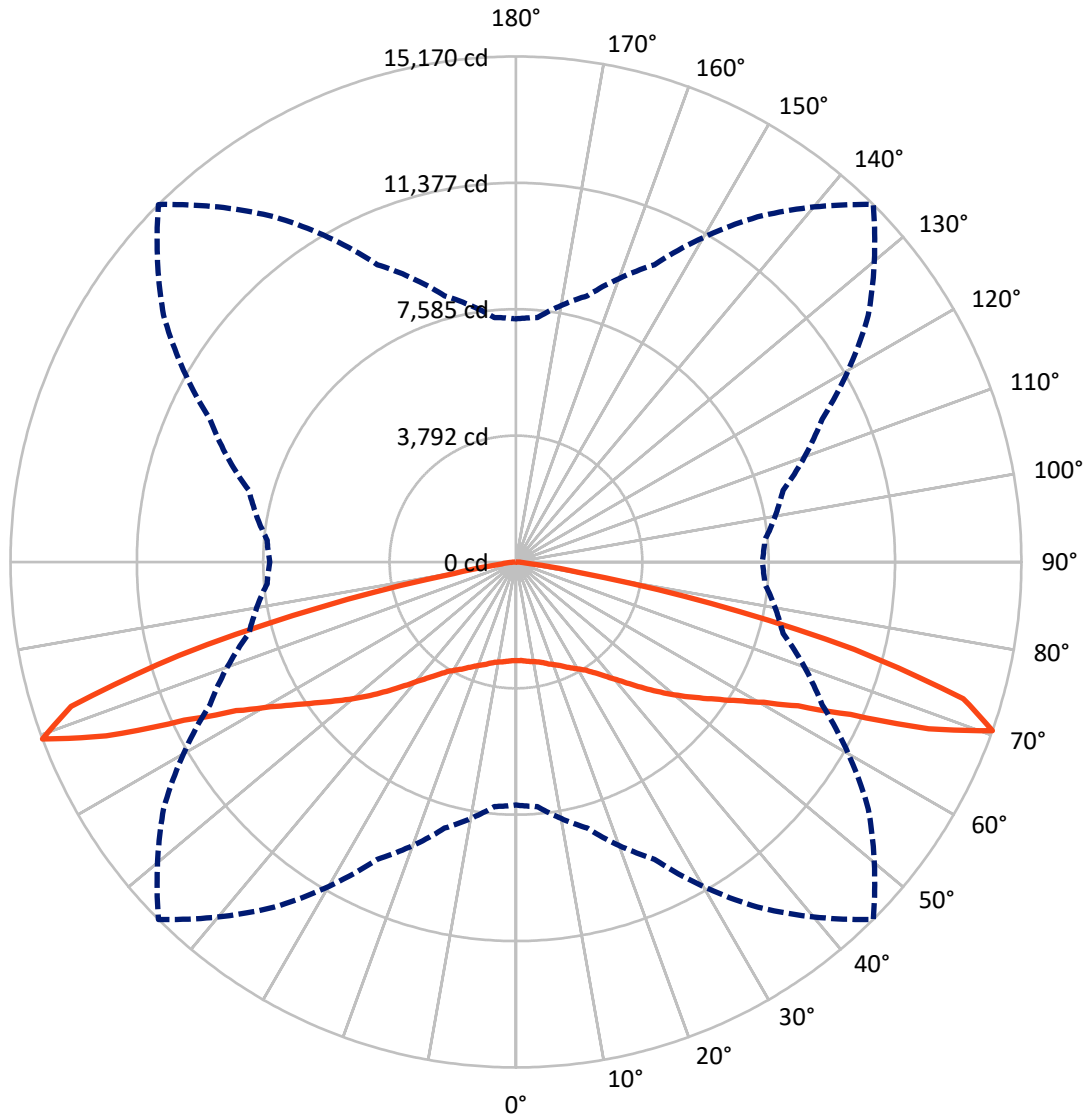
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P969851
CATALOG NUMBER: NVN-SB6A-740-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P969851
 CATALOG NUMBER: NVN-SB6A-740-U-5MQ

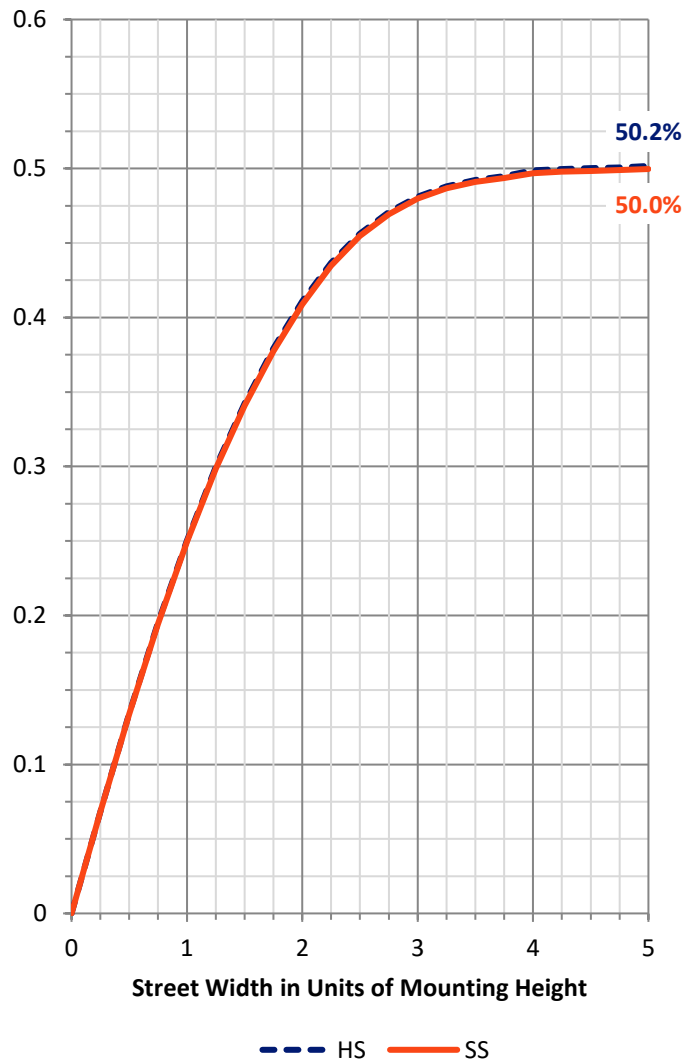
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15446.2 | 0.0 | 15446.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15446.2 | 0.0 | 15446.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30892.5 | 0.0 | 30892.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.5 | 0.9 |
| 10°-20° | 891.5 | 2.9 |
| 20°-30° | 1593.1 | 5.2 |
| 30°-40° | 2582.5 | 8.4 |
| 40°-50° | 4206.4 | 13.6 |
| 50°-60° | 6413.3 | 20.8 |
| 60°-70° | 9541.0 | 30.9 |
| 70°-80° | 5200.1 | 16.8 |
| 80°-90° | 177.1 | 0.6 |
| 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° | 30892.5 | 100.0 |
| 0°-180° | 30892.5 | 100.0 |



REPORT NUMBER: P969851

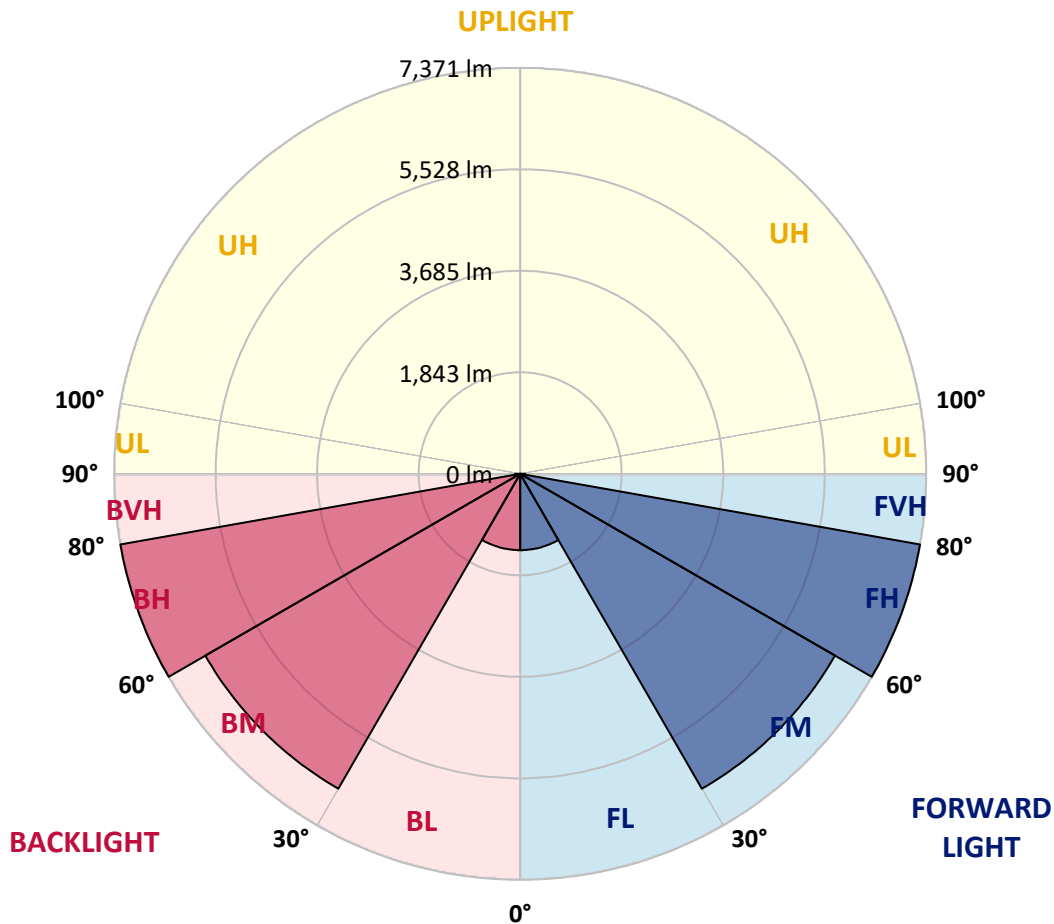
CATALOG NUMBER: NVN-SB6A-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1386.0 | 4.5 | | | |
| FM (30°-60°) | 6601.1 | 21.4 | | | |
| FH (60°-80°) | 7370.6 | 23.9 | | | G3/7500 |
| FVH (80°-90°) | 88.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1386.0 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 6601.1 | 21.4 | B4/8500 | | |
| BH (60°-80°) | 7370.6 | 23.9 | B5 | | G3/7500 |
| BVH (80°-90°) | 88.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P969851
 CATALOG NUMBER: NVN-SB6A-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2959.2 | 2959.2 | 2959.2 | 2959.2 | 2959.2 | 2959.2 | 2959.2 | 2959.2 | 2959.2 | 2959.2 | 2959.2 |
| 2.5° | 2973.1 | 2976.2 | 2970.0 | 2967.0 | 2963.8 | 2959.2 | 2960.7 | 2968.5 | 2974.7 | 2973.1 | 2974.7 |
| 5° | 2997.9 | 3001.1 | 2996.4 | 2994.8 | 2988.7 | 2987.1 | 2987.1 | 2994.8 | 2999.5 | 2996.4 | 2997.9 |
| 7.5° | 3025.9 | 3030.5 | 3022.7 | 3021.2 | 3018.1 | 3015.0 | 3013.5 | 3021.2 | 3025.9 | 3025.9 | 3025.9 |
| 10° | 3052.2 | 3056.9 | 3050.7 | 3046.0 | 3042.9 | 3042.9 | 3039.8 | 3046.0 | 3053.8 | 3052.2 | 3052.2 |
| 12.5° | 3080.1 | 3083.3 | 3077.0 | 3074.0 | 3074.0 | 3078.6 | 3074.0 | 3077.0 | 3083.3 | 3080.1 | 3078.6 |
| 15° | 3114.3 | 3115.8 | 3114.3 | 3119.0 | 3126.7 | 3142.2 | 3128.2 | 3125.1 | 3128.2 | 3120.5 | 3120.5 |
| 17.5° | 3160.8 | 3163.9 | 3170.1 | 3181.0 | 3191.8 | 3219.7 | 3194.9 | 3187.1 | 3187.1 | 3171.7 | 3171.7 |
| 20° | 3218.2 | 3222.8 | 3232.1 | 3250.8 | 3264.7 | 3291.1 | 3266.3 | 3255.4 | 3250.8 | 3230.6 | 3230.6 |
| 22.5° | 3278.7 | 3286.5 | 3300.4 | 3325.2 | 3350.0 | 3374.8 | 3350.0 | 3331.4 | 3317.4 | 3291.1 | 3289.5 |
| 25° | 3348.5 | 3357.8 | 3379.5 | 3419.8 | 3453.9 | 3489.6 | 3460.1 | 3422.9 | 3395.0 | 3357.8 | 3356.3 |
| 27.5° | 3447.7 | 3458.6 | 3484.9 | 3534.6 | 3578.0 | 3609.0 | 3581.1 | 3533.1 | 3494.2 | 3449.2 | 3447.7 |
| 30° | 3587.3 | 3598.2 | 3629.2 | 3681.9 | 3711.4 | 3731.5 | 3713.0 | 3675.8 | 3629.2 | 3578.0 | 3578.0 |
| 32.5° | 3767.2 | 3781.1 | 3815.3 | 3865.0 | 3871.1 | 3874.2 | 3868.0 | 3849.4 | 3815.3 | 3753.2 | 3754.8 |
| 35° | 3995.2 | 4010.7 | 4049.5 | 4089.9 | 4083.6 | 4089.9 | 4080.5 | 4074.3 | 4049.5 | 3978.1 | 3978.1 |
| 37.5° | 4274.4 | 4293.0 | 4333.3 | 4364.3 | 4348.8 | 4341.1 | 4342.6 | 4344.2 | 4330.2 | 4251.1 | 4251.1 |
| 40° | 4598.6 | 4623.4 | 4652.8 | 4685.4 | 4659.0 | 4635.8 | 4651.2 | 4663.6 | 4651.2 | 4570.6 | 4570.6 |
| 42.5° | 4932.0 | 4967.7 | 4998.6 | 5045.2 | 5023.4 | 4994.0 | 5015.7 | 5029.7 | 5003.3 | 4916.4 | 4922.7 |
| 45° | 5302.6 | 5336.8 | 5377.0 | 5446.8 | 5431.4 | 5400.3 | 5431.4 | 5434.4 | 5389.4 | 5287.2 | 5298.0 |
| 47.5° | 5685.7 | 5721.3 | 5781.9 | 5874.9 | 5868.7 | 5834.6 | 5874.9 | 5853.3 | 5795.9 | 5673.3 | 5665.6 |
| 50° | 6048.6 | 6098.2 | 6191.3 | 6321.6 | 6334.0 | 6292.2 | 6346.4 | 6304.6 | 6208.4 | 6054.9 | 6051.7 |
| 52.5° | 6389.8 | 6442.5 | 6589.9 | 6766.7 | 6811.7 | 6757.4 | 6830.3 | 6757.4 | 6613.2 | 6416.2 | 6397.6 |
| 55° | 6748.1 | 6807.0 | 6982.3 | 7213.4 | 7303.3 | 7263.0 | 7331.2 | 7221.1 | 7016.4 | 6777.6 | 6745.0 |
| 57.5° | 7170.0 | 7205.6 | 7415.1 | 7689.6 | 7841.6 | 7850.8 | 7881.8 | 7695.7 | 7447.5 | 7176.1 | 7138.9 |
| 60° | 7627.5 | 7677.1 | 7905.1 | 8233.9 | 8474.3 | 8551.9 | 8519.3 | 8243.3 | 7954.7 | 7643.0 | 7593.4 |
| 62.5° | 8213.7 | 8268.1 | 8541.0 | 8934.9 | 9314.9 | 9507.2 | 9380.1 | 8979.9 | 8623.2 | 8249.4 | 8184.3 |
| 65° | 8699.2 | 8759.6 | 9252.9 | 9955.4 | 10647.2 | 11033.3 | 10713.8 | 9977.1 | 9335.1 | 8807.7 | 8720.9 |
| 67.5° | 8347.1 | 8421.6 | 9195.5 | 10485.9 | 12205.8 | 13358.2 | 12264.7 | 10644.0 | 9386.2 | 8671.3 | 8564.3 |
| 70° | 7295.5 | 7365.3 | 8268.1 | 9845.3 | 12644.7 | 15169.7 | 12908.4 | 10135.3 | 8297.5 | 7497.2 | 7390.1 |
| 72.5° | 4843.5 | 5068.4 | 5981.9 | 7874.0 | 11290.8 | 14037.5 | 11402.4 | 7714.4 | 5549.2 | 4832.7 | 4676.0 |
| 75° | 1606.8 | 1786.7 | 2410.2 | 4082.1 | 7562.3 | 10498.3 | 7199.4 | 3612.1 | 1909.2 | 1374.1 | 1299.7 |
| 77.5° | 404.8 | 466.8 | 643.6 | 1167.9 | 3016.6 | 5977.3 | 2715.6 | 953.9 | 519.6 | 363.0 | 324.1 |
| 80° | 197.0 | 217.1 | 310.2 | 389.3 | 755.3 | 1899.9 | 708.8 | 366.0 | 245.1 | 189.2 | 173.7 |
| 82.5° | 108.5 | 110.1 | 175.3 | 220.3 | 280.7 | 491.7 | 291.6 | 214.0 | 141.1 | 114.8 | 114.8 |
| 85° | 66.7 | 65.2 | 93.1 | 117.9 | 117.9 | 175.3 | 139.6 | 117.9 | 80.7 | 71.3 | 74.4 |
| 87.5° | 26.3 | 26.3 | 34.1 | 37.2 | 32.6 | 45.0 | 35.7 | 38.7 | 31.1 | 29.4 | 31.1 |
| 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)