

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: P965791

Luminaire Tested: **NVN-SB4A-835-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965791
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-SB4A-835-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17910.8 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

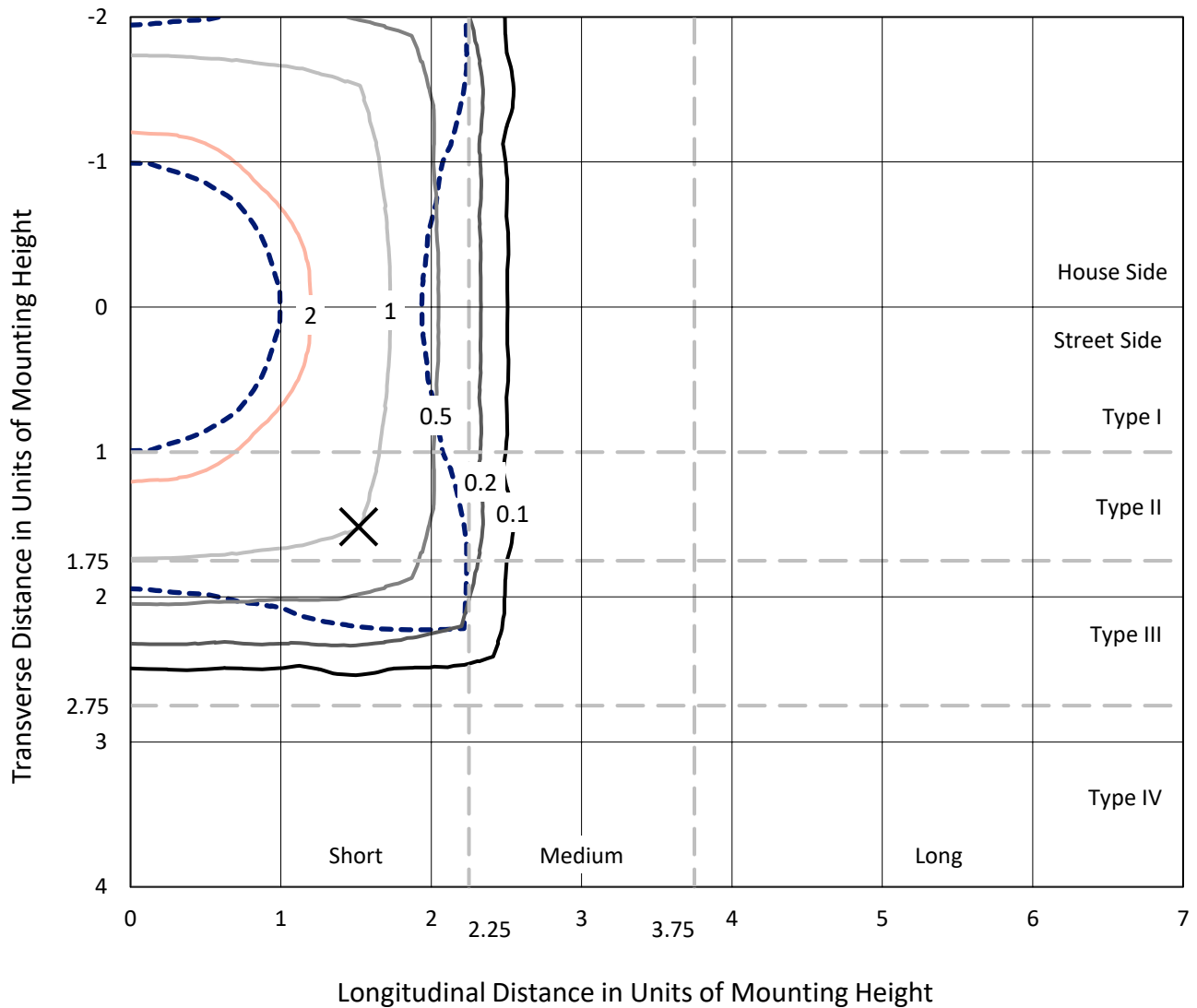
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

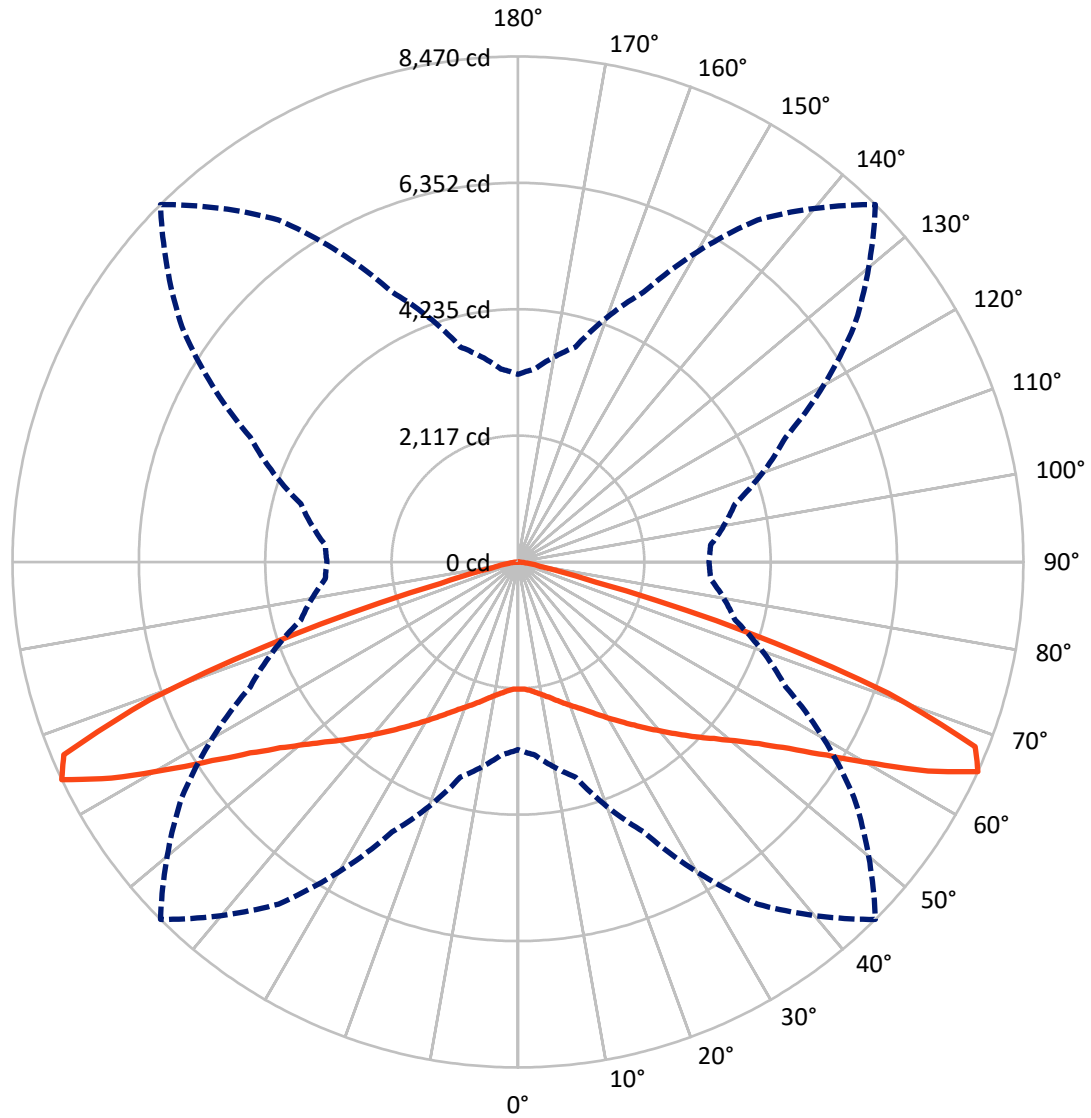
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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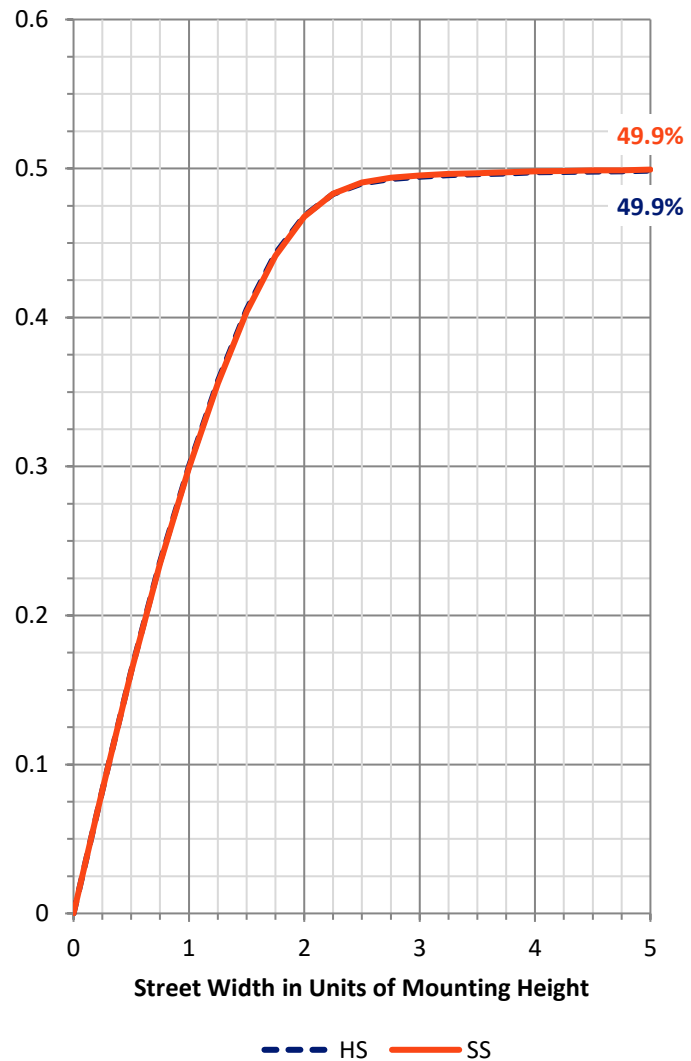
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8955.4 | 0.0 | 8955.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8955.4 | 0.0 | 8955.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17910.8 | 0.0 | 17910.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 210.4 | 1.2 |
| 10°-20° | 686.4 | 3.8 |
| 20°-30° | 1296.1 | 7.2 |
| 30°-40° | 2122.3 | 11.8 |
| 40°-50° | 3290.6 | 18.4 |
| 50°-60° | 4860.9 | 27.1 |
| 60°-70° | 4627.1 | 25.8 |
| 70°-80° | 746.7 | 4.2 |
| 80°-90° | 70.4 | 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° | 17910.8 | 100.0 |
| 0°-180° | 17910.8 | 100.0 |



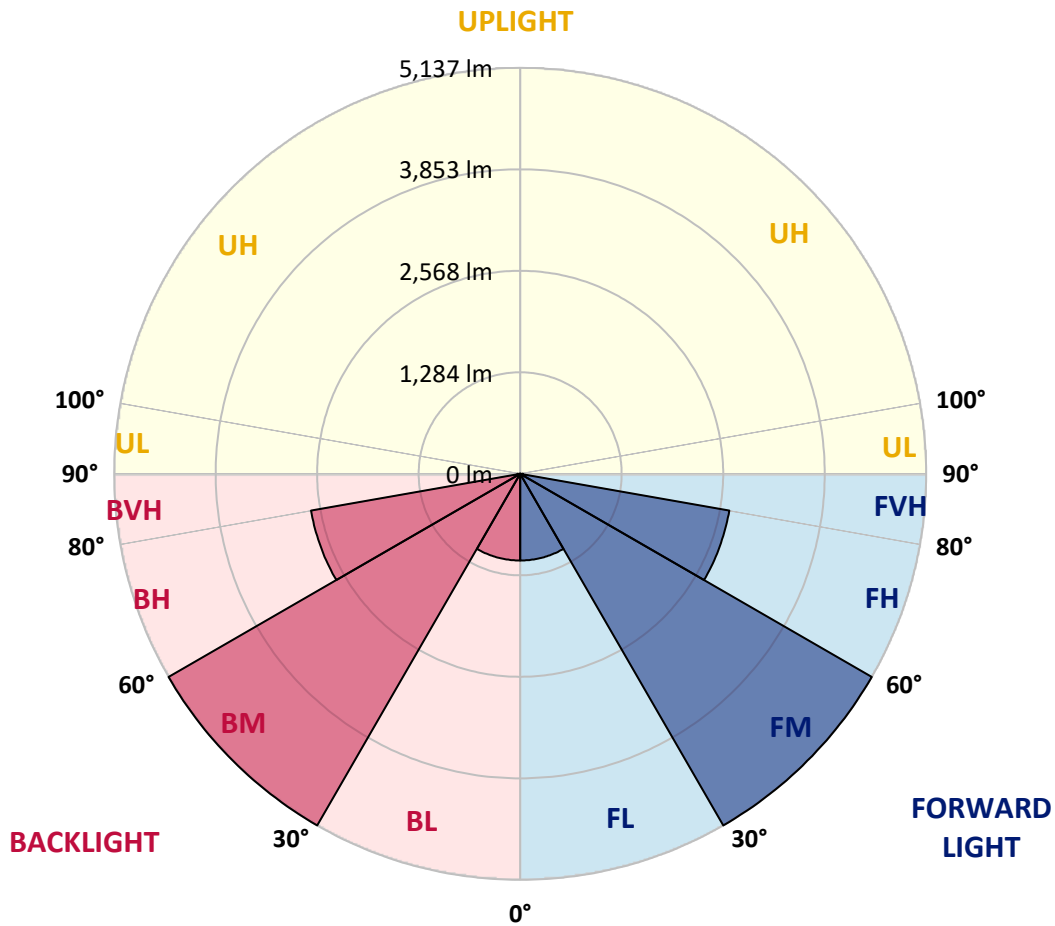
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1096.4 | 6.1 | | | |
| FM (30°-60°) | 5136.9 | 28.7 | | | |
| FH (60°-80°) | 2686.9 | 15.0 | | | G2/5000 |
| FVH (80°-90°) | 35.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1096.4 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 5136.9 | 28.7 | B4/8500 | | |
| BH (60°-80°) | 2686.9 | 15.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 35.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2131.6 | 2131.6 | 2131.6 | 2131.6 | 2131.6 | 2131.6 | 2131.6 | 2131.6 | 2131.6 | 2131.6 | 2131.6 |
| 2.5° | 2145.9 | 2138.8 | 2144.2 | 2139.7 | 2136.1 | 2132.5 | 2134.3 | 2140.5 | 2143.3 | 2144.2 | 2144.2 |
| 5° | 2174.7 | 2168.4 | 2171.2 | 2171.2 | 2164.8 | 2163.1 | 2163.9 | 2168.4 | 2173.8 | 2173.8 | 2173.8 |
| 7.5° | 2221.5 | 2215.1 | 2221.5 | 2217.8 | 2212.5 | 2210.6 | 2209.8 | 2213.4 | 2221.5 | 2221.5 | 2218.7 |
| 10° | 2278.1 | 2270.9 | 2274.5 | 2272.6 | 2266.4 | 2263.7 | 2262.8 | 2268.1 | 2275.4 | 2274.5 | 2272.6 |
| 12.5° | 2340.1 | 2332.0 | 2336.5 | 2331.1 | 2329.3 | 2326.5 | 2326.5 | 2325.7 | 2330.1 | 2326.5 | 2328.4 |
| 15° | 2409.3 | 2403.8 | 2405.7 | 2402.1 | 2404.8 | 2403.0 | 2395.7 | 2392.1 | 2394.0 | 2388.6 | 2389.5 |
| 17.5° | 2491.1 | 2478.4 | 2484.7 | 2483.0 | 2483.0 | 2486.5 | 2474.9 | 2470.4 | 2473.9 | 2468.6 | 2473.0 |
| 20° | 2585.4 | 2572.9 | 2575.5 | 2571.9 | 2567.4 | 2571.0 | 2556.7 | 2560.2 | 2562.9 | 2559.3 | 2567.4 |
| 22.5° | 2688.7 | 2672.6 | 2671.7 | 2673.4 | 2663.6 | 2664.5 | 2654.5 | 2663.6 | 2669.0 | 2659.1 | 2669.0 |
| 25° | 2794.8 | 2777.6 | 2789.3 | 2784.9 | 2772.3 | 2775.0 | 2767.8 | 2776.8 | 2781.2 | 2768.7 | 2783.1 |
| 27.5° | 2907.1 | 2895.4 | 2906.2 | 2908.8 | 2893.6 | 2904.4 | 2893.6 | 2901.7 | 2906.2 | 2887.3 | 2901.7 |
| 30° | 3038.3 | 3026.6 | 3036.5 | 3043.7 | 3025.7 | 3042.8 | 3033.8 | 3039.2 | 3040.0 | 3017.6 | 3031.1 |
| 32.5° | 3181.2 | 3163.3 | 3188.4 | 3192.0 | 3172.2 | 3192.9 | 3181.2 | 3188.4 | 3192.9 | 3162.3 | 3182.9 |
| 35° | 3355.5 | 3333.1 | 3361.8 | 3357.3 | 3340.3 | 3357.3 | 3346.5 | 3357.3 | 3368.0 | 3331.2 | 3353.7 |
| 37.5° | 3543.3 | 3520.0 | 3550.5 | 3542.4 | 3526.3 | 3537.9 | 3531.6 | 3538.8 | 3555.9 | 3516.4 | 3540.7 |
| 40° | 3750.1 | 3721.3 | 3762.6 | 3748.2 | 3732.9 | 3731.1 | 3734.7 | 3739.2 | 3761.7 | 3717.7 | 3732.0 |
| 42.5° | 3971.1 | 3940.5 | 4002.5 | 3980.1 | 3958.6 | 3944.1 | 3955.8 | 3964.8 | 3986.3 | 3936.9 | 3963.0 |
| 45° | 4223.6 | 4188.6 | 4269.4 | 4242.5 | 4208.3 | 4178.6 | 4197.6 | 4211.0 | 4242.5 | 4183.1 | 4213.7 |
| 47.5° | 4502.2 | 4462.6 | 4549.0 | 4540.9 | 4485.1 | 4420.4 | 4463.6 | 4502.2 | 4525.6 | 4453.6 | 4477.9 |
| 50° | 4774.4 | 4743.9 | 4857.2 | 4867.0 | 4798.7 | 4707.9 | 4768.2 | 4826.6 | 4832.9 | 4738.5 | 4750.2 |
| 52.5° | 5029.7 | 4999.1 | 5163.5 | 5225.6 | 5164.5 | 5056.6 | 5120.5 | 5179.7 | 5132.2 | 5009.9 | 5013.5 |
| 55° | 5233.6 | 5208.5 | 5417.8 | 5577.8 | 5598.5 | 5509.6 | 5547.3 | 5545.5 | 5389.1 | 5201.4 | 5207.6 |
| 57.5° | 5283.1 | 5279.5 | 5543.7 | 5882.5 | 6098.1 | 6108.9 | 6034.4 | 5843.8 | 5506.8 | 5254.4 | 5238.2 |
| 60° | 5058.5 | 5080.9 | 5444.0 | 6041.6 | 6616.7 | 6855.7 | 6533.1 | 5989.4 | 5372.9 | 5022.5 | 4981.2 |
| 62.5° | 4386.3 | 4445.5 | 4883.2 | 5847.4 | 7035.4 | 7714.8 | 6933.0 | 5768.4 | 4823.0 | 4365.6 | 4338.6 |
| 65° | 3143.5 | 3246.8 | 3730.3 | 4990.1 | 6997.7 | 8469.7 | 6875.5 | 4949.7 | 3766.2 | 3238.7 | 3200.0 |
| 67.5° | 1426.2 | 1531.2 | 1942.0 | 3416.6 | 6082.9 | 8264.8 | 6068.5 | 3452.6 | 2039.0 | 1536.7 | 1514.2 |
| 70° | 516.7 | 534.6 | 666.8 | 1367.8 | 3887.5 | 6585.2 | 4053.8 | 1377.6 | 709.0 | 569.7 | 562.5 |
| 72.5° | 312.7 | 315.4 | 343.3 | 489.7 | 1350.6 | 3998.0 | 1408.1 | 505.9 | 350.4 | 310.9 | 316.3 |
| 75° | 198.6 | 196.8 | 244.5 | 299.2 | 479.0 | 1348.9 | 502.4 | 299.2 | 243.5 | 221.9 | 223.8 |
| 77.5° | 142.9 | 147.4 | 175.3 | 223.8 | 302.0 | 457.5 | 296.5 | 213.9 | 175.3 | 143.8 | 146.5 |
| 80° | 106.9 | 109.7 | 127.6 | 174.4 | 212.1 | 284.8 | 188.7 | 158.2 | 132.1 | 89.9 | 92.6 |
| 82.5° | 77.3 | 77.3 | 83.5 | 126.7 | 129.4 | 153.6 | 102.4 | 111.4 | 87.1 | 63.8 | 63.8 |
| 85° | 45.8 | 44.9 | 52.1 | 75.4 | 67.4 | 56.6 | 46.7 | 68.3 | 54.8 | 39.6 | 38.6 |
| 87.5° | 16.2 | 17.1 | 16.2 | 21.5 | 17.9 | 15.3 | 14.3 | 18.9 | 15.3 | 13.5 | 12.6 |
| 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)