

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: P963450

Luminaire Tested: **NVN-SB3A-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963450
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-SB3A-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12658.7 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

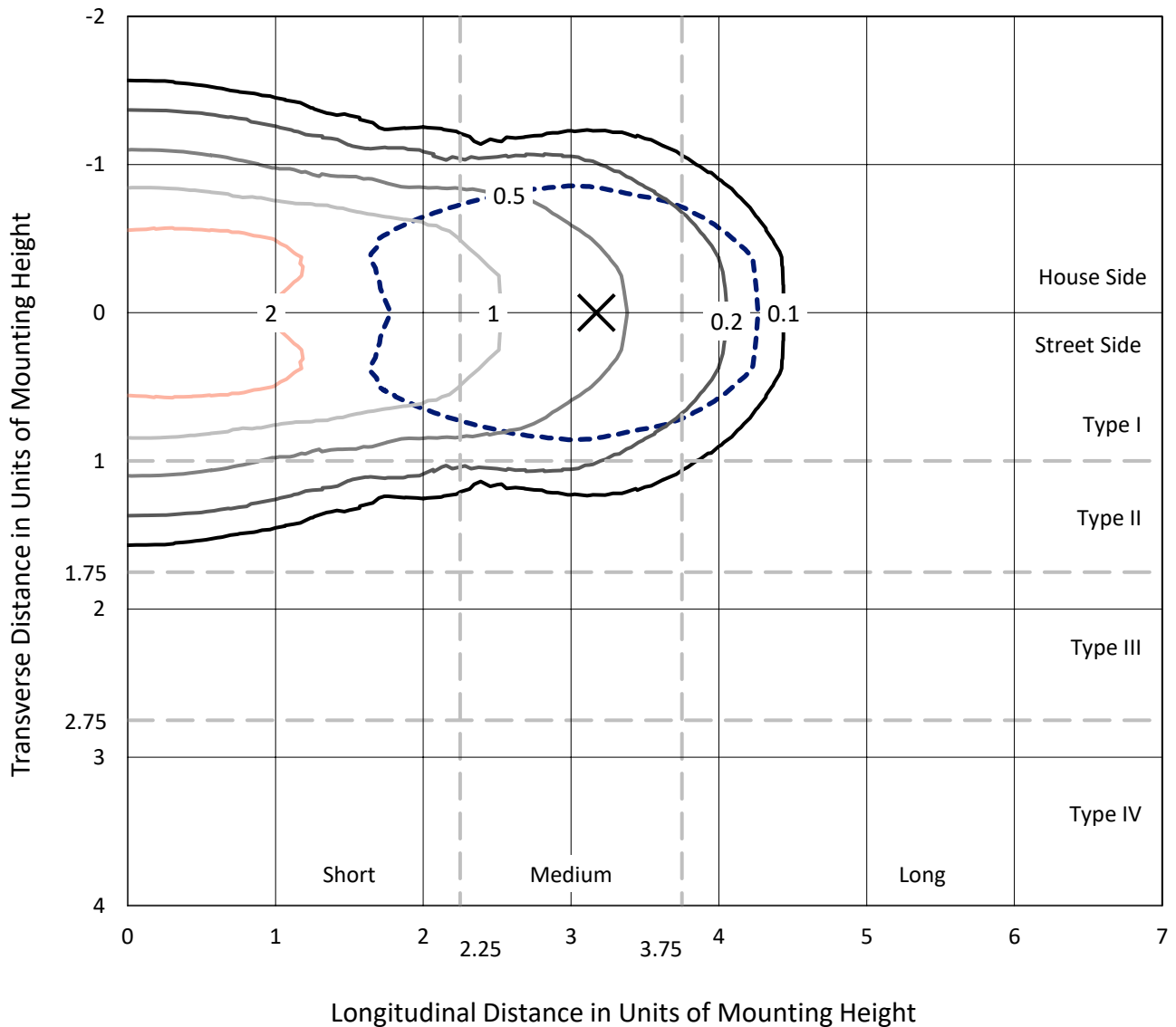
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

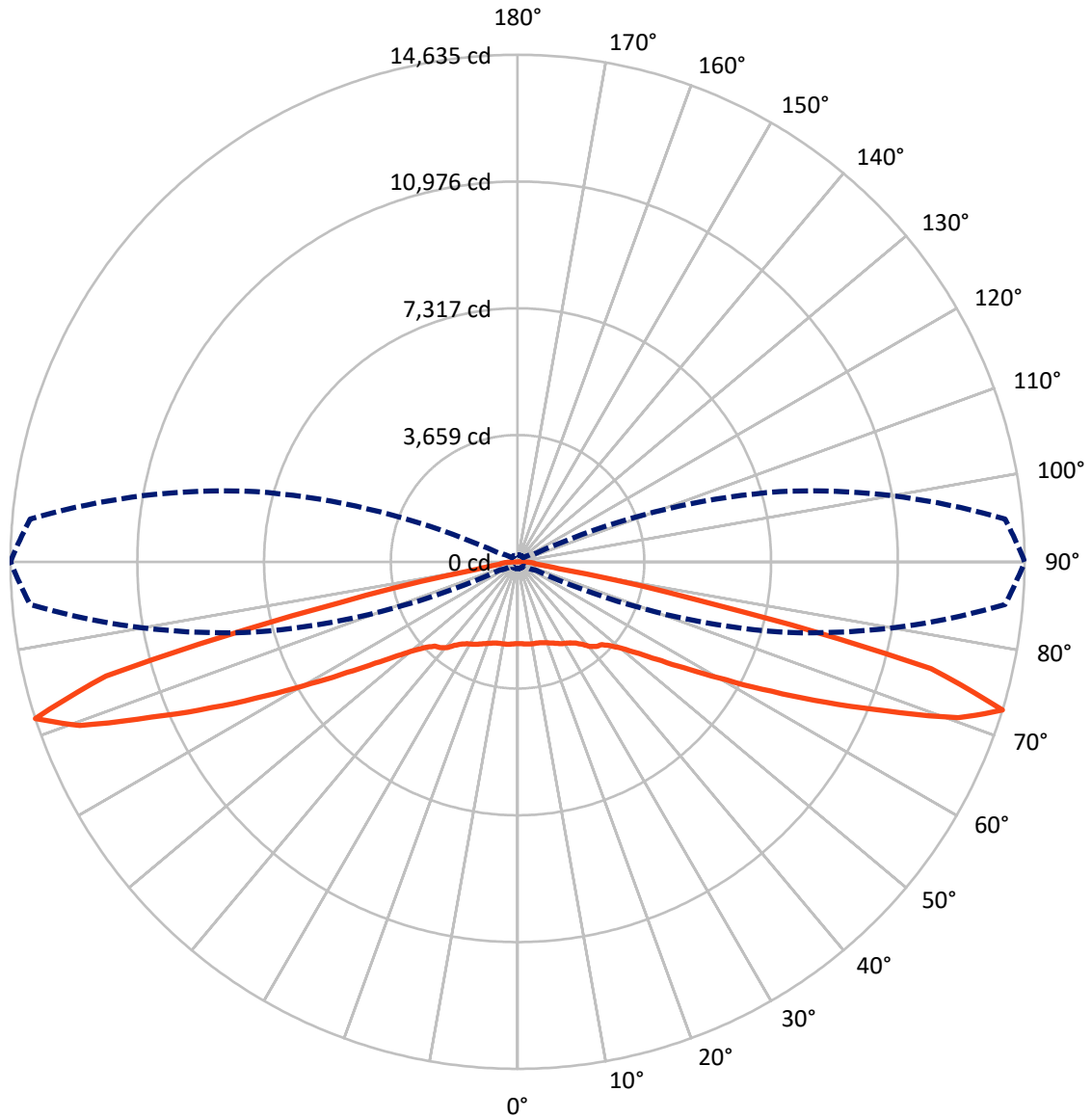
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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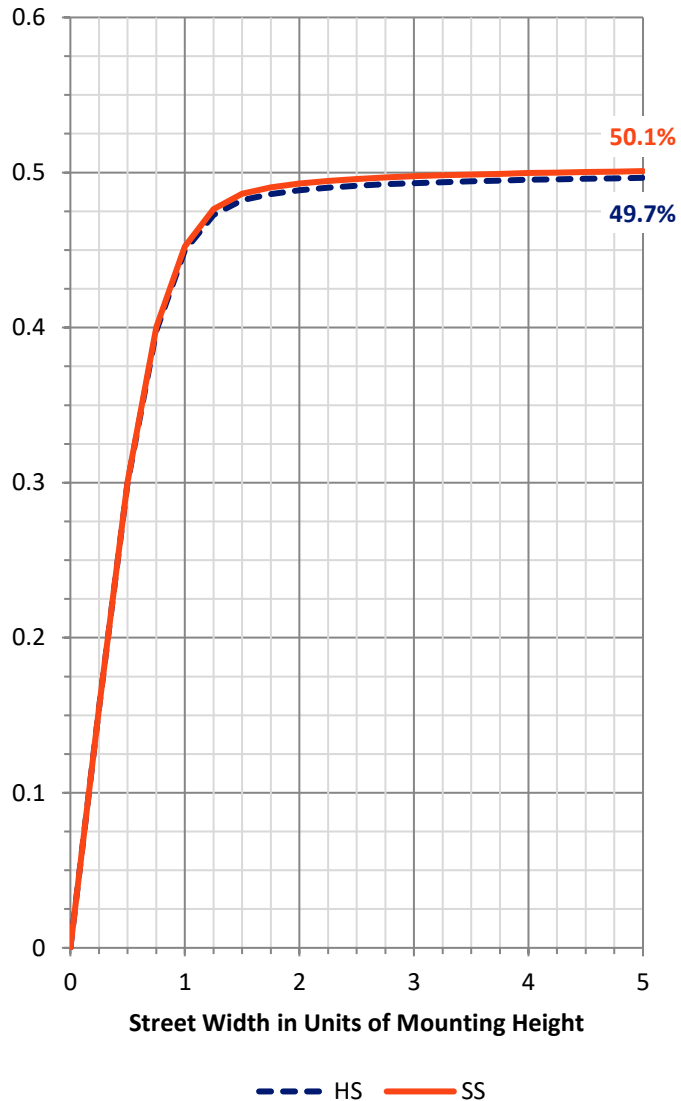
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6329.4 | 0.0 | 6329.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6329.4 | 0.0 | 6329.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12658.7 | 0.0 | 12658.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.4 | 1.8 |
| 10°-20° | 701.3 | 5.5 |
| 20°-30° | 1169.3 | 9.2 |
| 30°-40° | 1608.2 | 12.7 |
| 40°-50° | 1964.0 | 15.5 |
| 50°-60° | 2271.6 | 17.9 |
| 60°-70° | 2708.5 | 21.4 |
| 70°-80° | 1890.4 | 14.9 |
| 80°-90° | 116.1 | 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° | 12658.7 | 100.0 |
| 0°-180° | 12658.7 | 100.0 |

Coefficient of Utilization



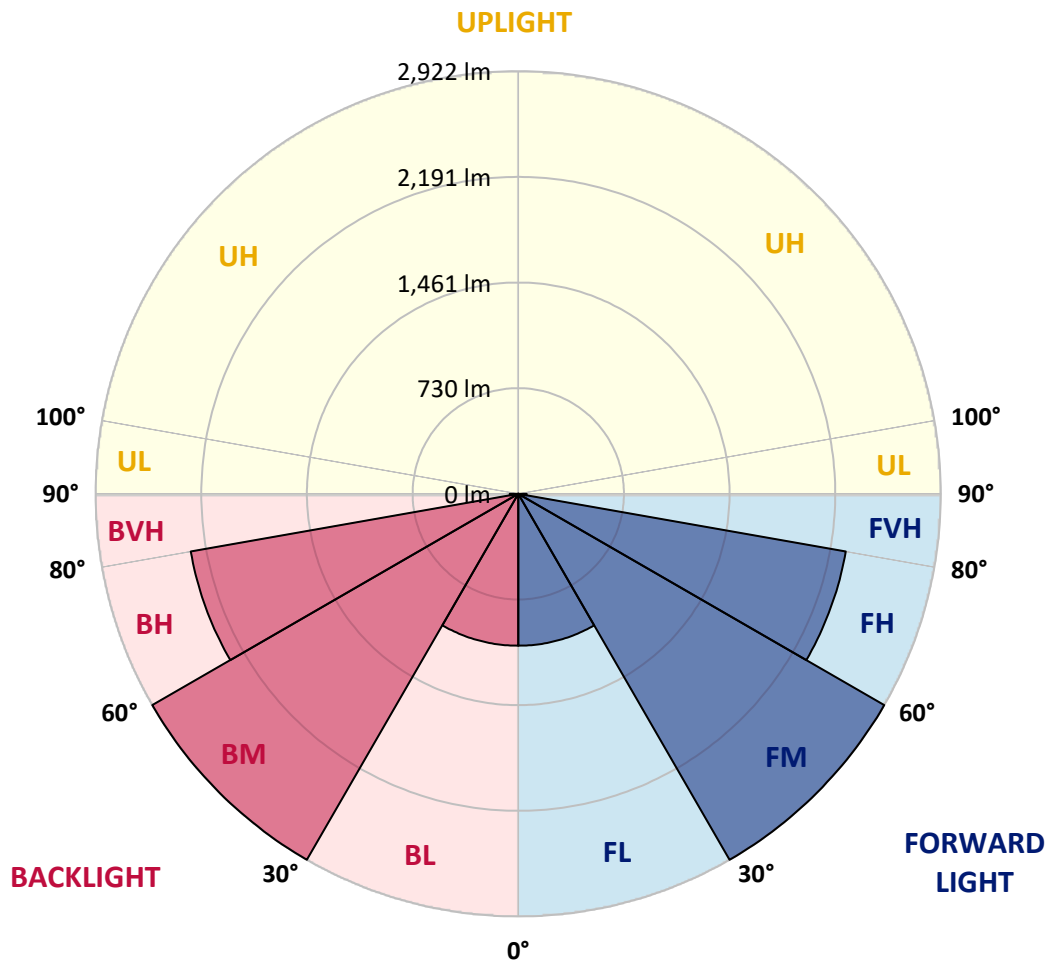
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1050.0 | 8.3 | | | |
| FM (30°-60°) | 2921.9 | 23.1 | | | |
| FH (60°-80°) | 2299.4 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 58.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1050.0 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 2921.9 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 2299.4 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 58.1 | 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° | 2365.4 | 2365.4 | 2365.4 | 2365.4 | 2365.4 | 2365.4 | 2365.4 | 2365.4 | 2365.4 | 2365.4 | 2365.4 |
| 2.5° | 2367.4 | 2370.1 | 2370.1 | 2368.2 | 2372.8 | 2368.8 | 2368.8 | 2366.7 | 2368.8 | 2366.7 | 2366.7 |
| 5° | 2379.5 | 2382.9 | 2384.3 | 2383.5 | 2389.7 | 2386.3 | 2386.3 | 2383.5 | 2384.3 | 2382.2 | 2382.2 |
| 7.5° | 2402.4 | 2407.1 | 2409.8 | 2413.2 | 2422.0 | 2417.9 | 2415.2 | 2407.1 | 2403.7 | 2398.4 | 2398.4 |
| 10° | 2409.8 | 2415.2 | 2423.9 | 2441.4 | 2461.6 | 2462.3 | 2454.3 | 2434.1 | 2418.6 | 2406.5 | 2404.4 |
| 12.5° | 2386.9 | 2394.4 | 2412.5 | 2448.2 | 2493.2 | 2511.5 | 2498.6 | 2465.0 | 2434.7 | 2413.2 | 2409.8 |
| 15° | 2358.0 | 2366.1 | 2393.7 | 2447.5 | 2514.1 | 2556.5 | 2555.1 | 2510.7 | 2462.3 | 2428.6 | 2423.3 |
| 17.5° | 2312.9 | 2321.0 | 2360.7 | 2436.0 | 2530.2 | 2600.2 | 2619.1 | 2573.3 | 2505.3 | 2460.3 | 2452.9 |
| 20° | 2231.5 | 2238.9 | 2294.2 | 2399.7 | 2535.6 | 2646.7 | 2695.7 | 2655.4 | 2570.6 | 2509.4 | 2497.9 |
| 22.5° | 2126.0 | 2137.3 | 2201.9 | 2337.2 | 2522.8 | 2695.0 | 2783.2 | 2755.6 | 2646.7 | 2561.9 | 2546.4 |
| 25° | 2012.9 | 2025.0 | 2100.3 | 2260.4 | 2489.9 | 2730.1 | 2886.8 | 2869.3 | 2732.8 | 2627.1 | 2605.5 |
| 27.5° | 1915.3 | 1928.1 | 2010.2 | 2184.5 | 2438.8 | 2743.5 | 2989.1 | 2997.8 | 2837.0 | 2699.1 | 2676.3 |
| 30° | 1838.6 | 1850.7 | 1938.2 | 2123.2 | 2372.8 | 2730.1 | 3078.6 | 3139.1 | 2943.3 | 2761.7 | 2728.8 |
| 32.5° | 1754.6 | 1770.1 | 1862.2 | 2048.6 | 2294.8 | 2697.8 | 3156.6 | 3291.8 | 3066.4 | 2829.0 | 2787.3 |
| 35° | 1648.3 | 1662.3 | 1759.3 | 1946.3 | 2192.5 | 2645.9 | 3221.9 | 3461.3 | 3242.7 | 2931.2 | 2884.8 |
| 37.5° | 1519.0 | 1532.6 | 1628.7 | 1818.5 | 2090.9 | 2573.3 | 3271.6 | 3652.4 | 3452.6 | 3078.6 | 3016.7 |
| 40° | 1389.3 | 1402.0 | 1492.2 | 1675.9 | 1969.1 | 2480.5 | 3289.1 | 3839.4 | 3693.5 | 3281.0 | 3215.1 |
| 42.5° | 1270.2 | 1281.6 | 1364.4 | 1535.2 | 1832.6 | 2362.0 | 3266.3 | 4002.2 | 3909.5 | 3422.4 | 3337.6 |
| 45° | 1160.5 | 1170.6 | 1243.9 | 1403.3 | 1690.6 | 2218.1 | 3197.6 | 4177.2 | 4166.4 | 3523.2 | 3408.8 |
| 47.5° | 1035.4 | 1045.5 | 1121.5 | 1275.5 | 1548.7 | 2049.2 | 3081.3 | 4349.4 | 4523.6 | 3752.0 | 3620.1 |
| 50° | 882.6 | 891.4 | 969.4 | 1128.2 | 1401.4 | 1869.6 | 2919.8 | 4484.6 | 4974.4 | 4098.5 | 3932.9 |
| 52.5° | 701.7 | 711.1 | 787.1 | 945.9 | 1226.4 | 1676.5 | 2707.2 | 4572.7 | 5495.1 | 4604.4 | 4400.5 |
| 55° | 522.0 | 528.8 | 594.7 | 737.4 | 1009.8 | 1456.5 | 2440.7 | 4597.6 | 6085.7 | 5296.0 | 5041.0 |
| 57.5° | 378.7 | 382.8 | 425.2 | 531.5 | 765.6 | 1181.4 | 2117.1 | 4533.1 | 6788.8 | 6182.7 | 5861.8 |
| 60° | 306.8 | 308.1 | 320.9 | 368.0 | 532.2 | 870.5 | 1726.3 | 4311.0 | 7551.7 | 7325.7 | 6921.3 |
| 62.5° | 278.5 | 278.5 | 281.9 | 294.7 | 359.9 | 574.5 | 1253.4 | 3850.8 | 8369.8 | 8770.1 | 8228.5 |
| 65° | 259.0 | 259.0 | 260.3 | 266.4 | 283.9 | 366.0 | 791.2 | 3101.4 | 9059.4 | 10462.1 | 9777.2 |
| 67.5° | 241.5 | 242.2 | 241.5 | 243.5 | 253.6 | 270.5 | 458.8 | 2142.0 | 9430.7 | 12215.3 | 11475.9 |
| 70° | 223.3 | 224.7 | 221.3 | 221.3 | 229.4 | 230.1 | 287.3 | 1174.6 | 9122.6 | 13684.6 | 13490.1 |
| 72.5° | 201.8 | 203.9 | 198.4 | 197.1 | 203.2 | 200.5 | 216.0 | 563.8 | 7832.2 | 14123.3 | 14634.5 |
| 75° | 183.0 | 185.7 | 173.5 | 170.3 | 170.3 | 168.2 | 175.6 | 289.3 | 5083.4 | 11521.0 | 12323.0 |
| 77.5° | 166.2 | 171.6 | 152.0 | 141.2 | 138.6 | 132.5 | 143.3 | 176.9 | 2223.4 | 5409.0 | 5296.6 |
| 80° | 137.2 | 144.6 | 125.2 | 112.3 | 107.6 | 101.0 | 113.1 | 123.8 | 661.3 | 1256.0 | 1202.9 |
| 82.5° | 102.3 | 105.6 | 88.8 | 80.1 | 76.1 | 71.3 | 84.8 | 86.1 | 215.2 | 444.6 | 502.6 |
| 85° | 65.3 | 66.6 | 54.5 | 47.0 | 45.1 | 43.0 | 53.8 | 47.0 | 82.1 | 327.0 | 475.0 |
| 87.5° | 22.9 | 26.2 | 20.8 | 18.9 | 20.2 | 16.8 | 24.9 | 14.1 | 22.9 | 230.7 | 285.9 |
| 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)