

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: P959203

Luminaire Tested: **NVN-SB1A-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959203
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-SB1A-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3758.7 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

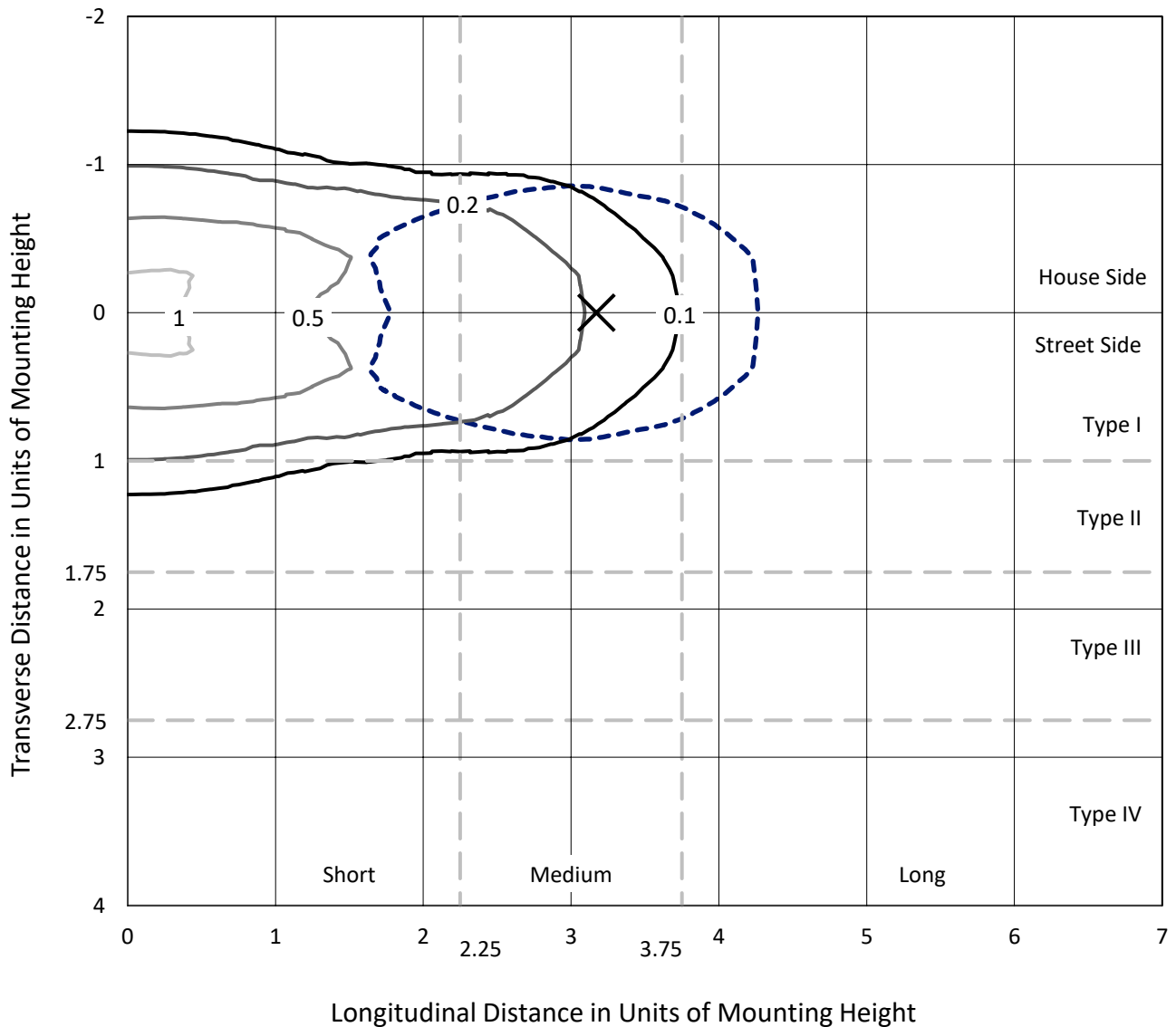
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

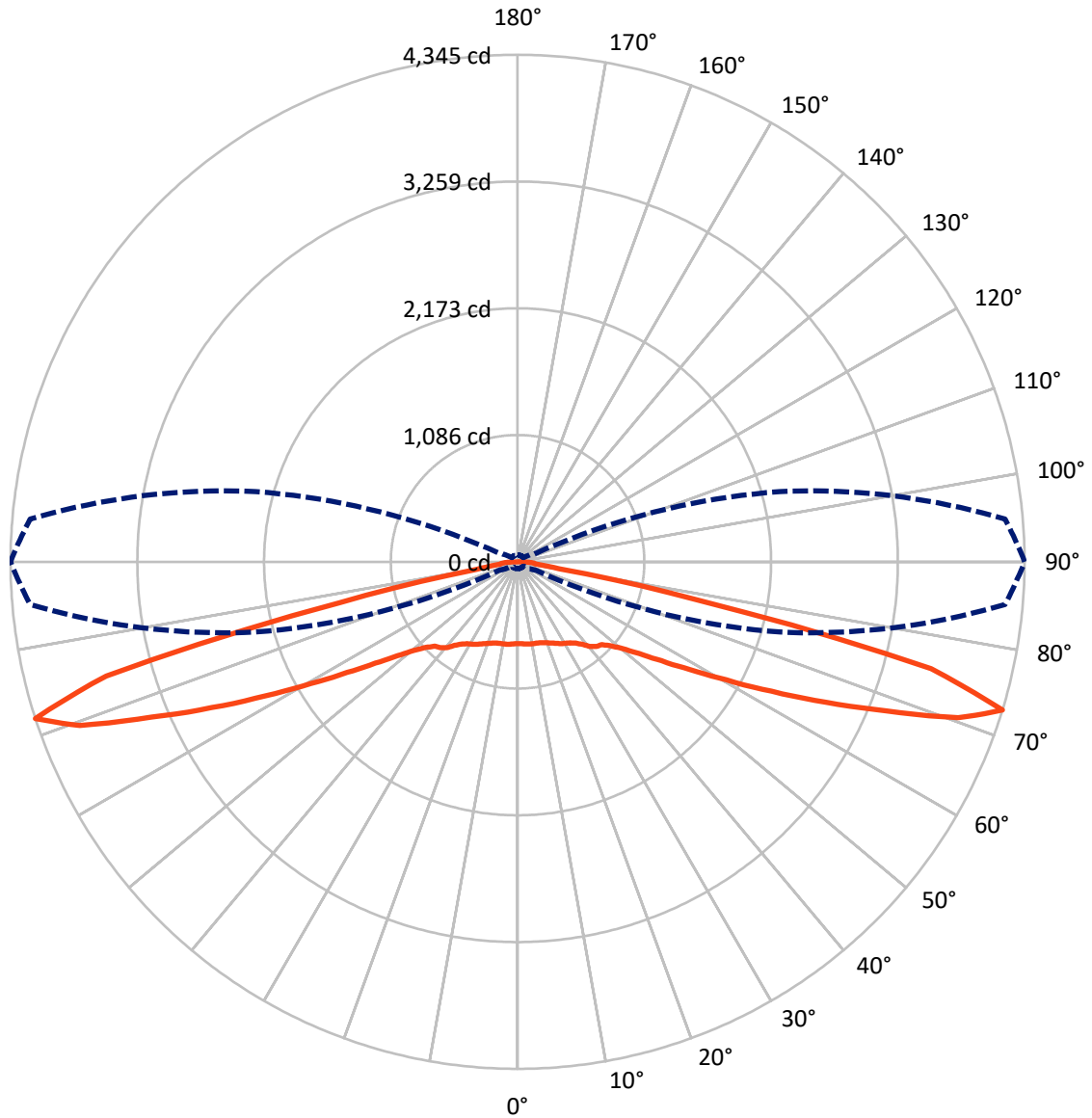
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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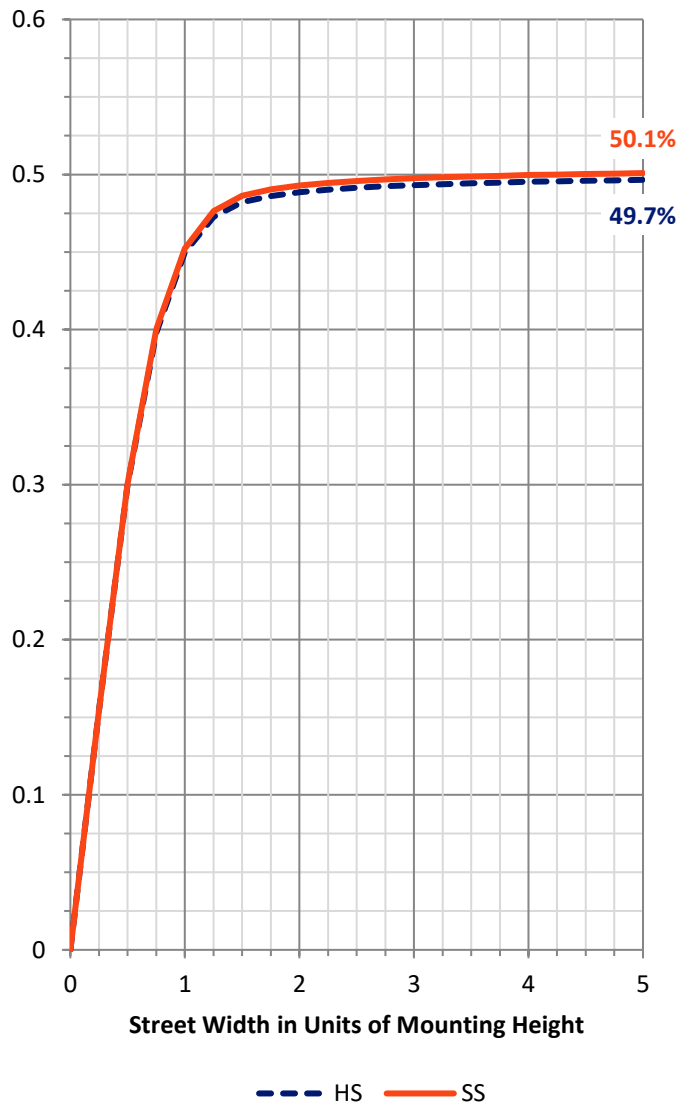
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1879.3 | 0.0 | 1879.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1879.3 | 0.0 | 1879.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3758.7 | 0.0 | 3758.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.1 | 1.8 |
| 10°-20° | 208.2 | 5.5 |
| 20°-30° | 347.2 | 9.2 |
| 30°-40° | 477.5 | 12.7 |
| 40°-50° | 583.2 | 15.5 |
| 50°-60° | 674.5 | 17.9 |
| 60°-70° | 804.2 | 21.4 |
| 70°-80° | 561.3 | 14.9 |
| 80°-90° | 34.5 | 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° | 3758.7 | 100.0 |
| 0°-180° | 3758.7 | 100.0 |

Coefficient of Utilization

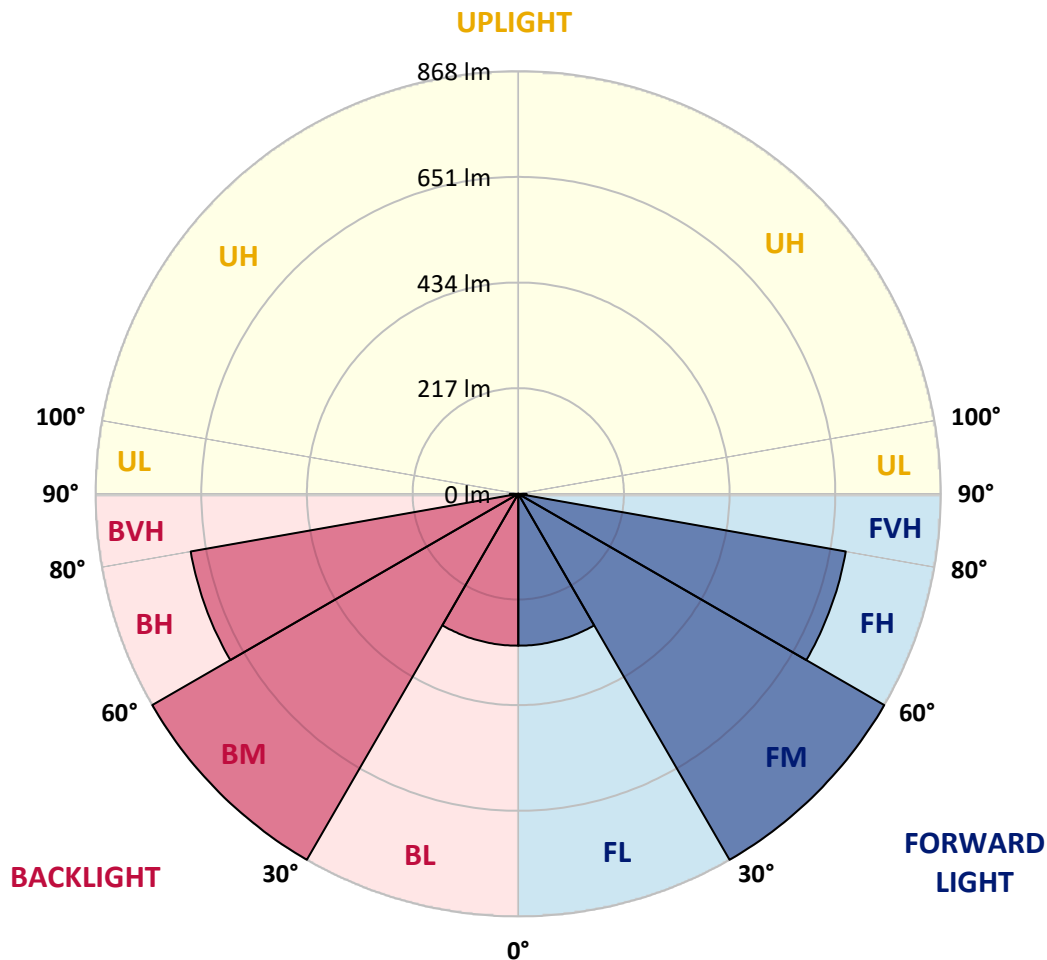


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 311.8 | 8.3 | | | |
| FM (30°-60°) | 867.6 | 23.1 | | | |
| FH (60°-80°) | 682.8 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 17.2 | 0.5 | | | G1/100 |
| BL (0°-30°) | 311.8 | 8.3 | B1/500 | | |
| BM (30°-60°) | 867.6 | 23.1 | B1/1000 | | |
| BH (60°-80°) | 682.8 | 18.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 17.2 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 702.3 | 702.3 | 702.3 | 702.3 | 702.3 | 702.3 | 702.3 | 702.3 | 702.3 | 702.3 | 702.3 |
| 2.5° | 702.9 | 703.8 | 703.8 | 703.2 | 704.6 | 703.4 | 703.4 | 702.7 | 703.4 | 702.7 | 702.7 |
| 5° | 706.5 | 707.6 | 708.0 | 707.8 | 709.5 | 708.6 | 708.6 | 707.8 | 708.0 | 707.4 | 707.4 |
| 7.5° | 713.3 | 714.7 | 715.6 | 716.6 | 719.1 | 717.9 | 717.1 | 714.7 | 713.7 | 712.2 | 712.2 |
| 10° | 715.6 | 717.1 | 719.8 | 724.9 | 730.9 | 731.1 | 728.7 | 722.7 | 718.1 | 714.5 | 713.9 |
| 12.5° | 708.8 | 710.9 | 716.4 | 726.9 | 740.3 | 745.7 | 741.9 | 732.0 | 722.9 | 716.6 | 715.6 |
| 15° | 700.2 | 702.5 | 710.7 | 726.7 | 746.5 | 759.1 | 758.7 | 745.5 | 731.1 | 721.1 | 719.6 |
| 17.5° | 686.7 | 689.2 | 701.0 | 723.3 | 751.3 | 772.0 | 777.7 | 764.0 | 743.9 | 730.5 | 728.4 |
| 20° | 662.6 | 664.8 | 681.2 | 712.6 | 752.9 | 785.9 | 800.4 | 788.4 | 763.3 | 745.1 | 741.7 |
| 22.5° | 631.2 | 634.7 | 653.8 | 693.9 | 749.1 | 800.2 | 826.4 | 818.3 | 785.9 | 760.7 | 756.0 |
| 25° | 597.7 | 601.3 | 623.6 | 671.2 | 739.3 | 810.6 | 857.2 | 852.0 | 811.4 | 780.0 | 773.7 |
| 27.5° | 568.7 | 572.5 | 596.9 | 648.6 | 724.2 | 814.6 | 887.5 | 890.1 | 842.3 | 801.4 | 794.7 |
| 30° | 545.9 | 549.5 | 575.5 | 630.5 | 704.6 | 810.6 | 914.1 | 932.0 | 873.9 | 820.0 | 810.3 |
| 32.5° | 521.0 | 525.5 | 552.9 | 608.2 | 681.4 | 801.0 | 937.3 | 977.4 | 910.5 | 840.0 | 827.6 |
| 35° | 489.4 | 493.6 | 522.3 | 577.9 | 651.0 | 785.7 | 956.6 | 1027.8 | 962.8 | 870.3 | 856.6 |
| 37.5° | 451.1 | 455.0 | 483.6 | 540.0 | 620.8 | 764.0 | 971.4 | 1084.4 | 1025.2 | 914.1 | 895.7 |
| 40° | 412.5 | 416.3 | 443.1 | 497.6 | 584.7 | 736.5 | 976.6 | 1140.0 | 1096.6 | 974.3 | 954.7 |
| 42.5° | 377.1 | 380.6 | 405.1 | 455.8 | 544.2 | 701.3 | 969.9 | 1188.4 | 1160.8 | 1016.2 | 991.0 |
| 45° | 344.6 | 347.6 | 369.3 | 416.7 | 501.9 | 658.6 | 949.5 | 1240.2 | 1237.1 | 1046.1 | 1012.2 |
| 47.5° | 307.4 | 310.5 | 333.0 | 378.7 | 459.8 | 608.4 | 914.9 | 1291.4 | 1343.2 | 1114.1 | 1074.9 |
| 50° | 262.1 | 264.7 | 287.8 | 335.0 | 416.0 | 555.1 | 866.9 | 1331.6 | 1477.0 | 1216.9 | 1167.8 |
| 52.5° | 208.4 | 211.2 | 233.7 | 280.8 | 364.2 | 497.8 | 803.8 | 1357.7 | 1631.6 | 1367.1 | 1306.6 |
| 55° | 155.0 | 157.0 | 176.6 | 218.9 | 299.8 | 432.4 | 724.7 | 1365.1 | 1807.0 | 1572.5 | 1496.8 |
| 57.5° | 112.4 | 113.7 | 126.3 | 157.8 | 227.3 | 350.8 | 628.6 | 1345.9 | 2015.8 | 1835.8 | 1740.4 |
| 60° | 91.1 | 91.5 | 95.3 | 109.3 | 158.1 | 258.5 | 512.6 | 1280.0 | 2242.3 | 2175.2 | 2055.1 |
| 62.5° | 82.7 | 82.7 | 83.7 | 87.5 | 106.9 | 170.6 | 372.2 | 1143.4 | 2485.2 | 2604.0 | 2443.2 |
| 65° | 76.9 | 76.9 | 77.3 | 79.1 | 84.3 | 108.6 | 234.9 | 920.9 | 2689.9 | 3106.5 | 2903.1 |
| 67.5° | 71.8 | 72.0 | 71.8 | 72.3 | 75.3 | 80.3 | 136.2 | 636.0 | 2800.2 | 3627.0 | 3407.5 |
| 70° | 66.3 | 66.7 | 65.7 | 65.7 | 68.2 | 68.4 | 85.3 | 348.8 | 2708.7 | 4063.3 | 4005.5 |
| 72.5° | 60.0 | 60.6 | 58.9 | 58.5 | 60.4 | 59.6 | 64.2 | 167.4 | 2325.6 | 4193.5 | 4345.3 |
| 75° | 54.3 | 55.1 | 51.6 | 50.5 | 50.5 | 49.9 | 52.2 | 85.9 | 1509.4 | 3420.8 | 3658.9 |
| 77.5° | 49.3 | 50.9 | 45.1 | 41.9 | 41.1 | 39.4 | 42.5 | 52.6 | 660.2 | 1606.1 | 1572.7 |
| 80° | 40.8 | 42.9 | 37.1 | 33.3 | 32.0 | 29.9 | 33.5 | 36.8 | 196.4 | 373.0 | 357.2 |
| 82.5° | 30.3 | 31.4 | 26.3 | 23.8 | 22.5 | 21.2 | 25.2 | 25.5 | 64.0 | 132.0 | 149.2 |
| 85° | 19.4 | 19.8 | 16.2 | 13.9 | 13.4 | 12.8 | 16.0 | 13.9 | 24.4 | 97.1 | 141.0 |
| 87.5° | 6.8 | 7.8 | 6.1 | 5.6 | 5.9 | 5.0 | 7.4 | 4.2 | 6.8 | 68.5 | 84.9 |
| 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)