

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: P882122

Luminaire Tested: **NVN-SB1D-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8692 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

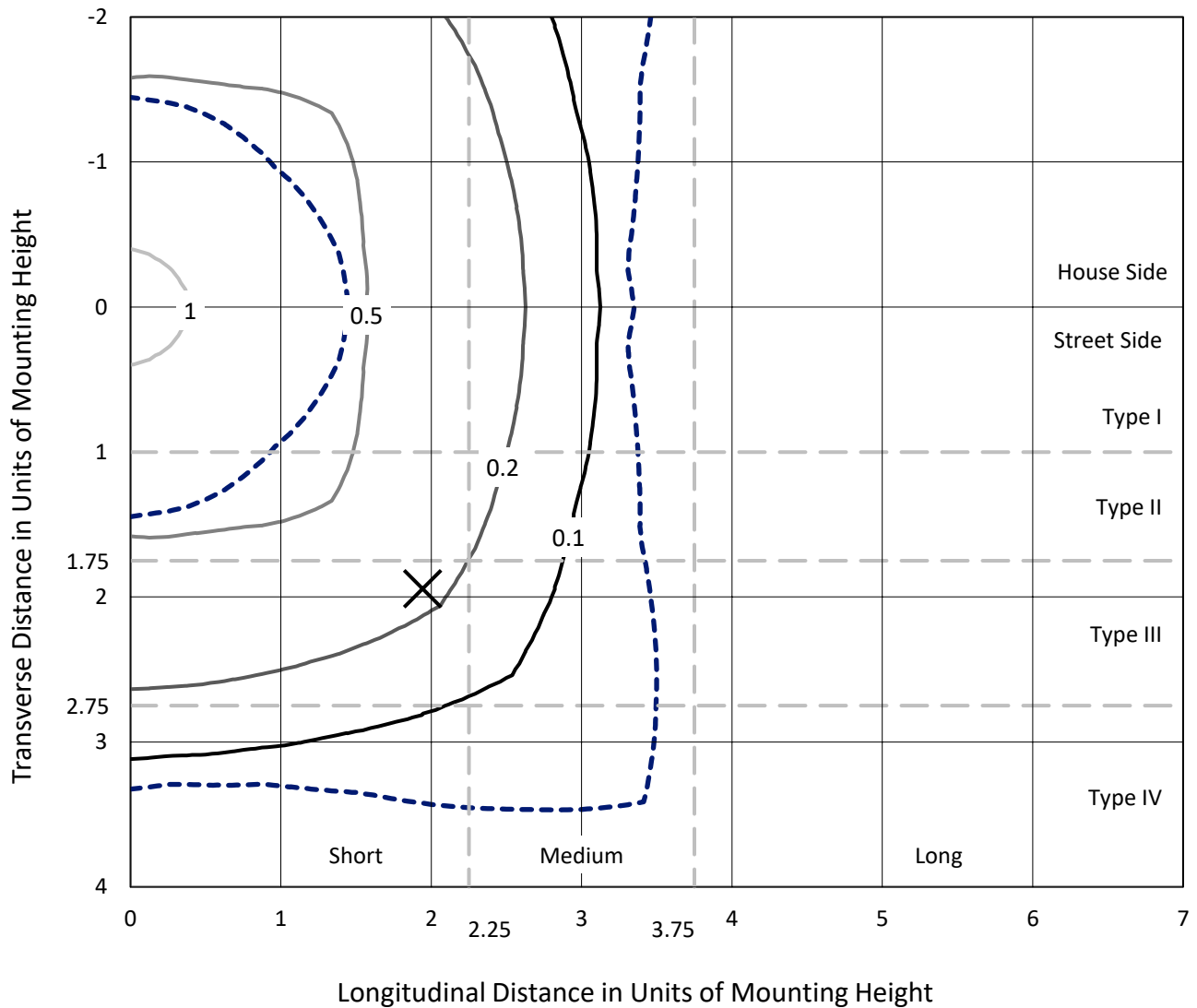
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

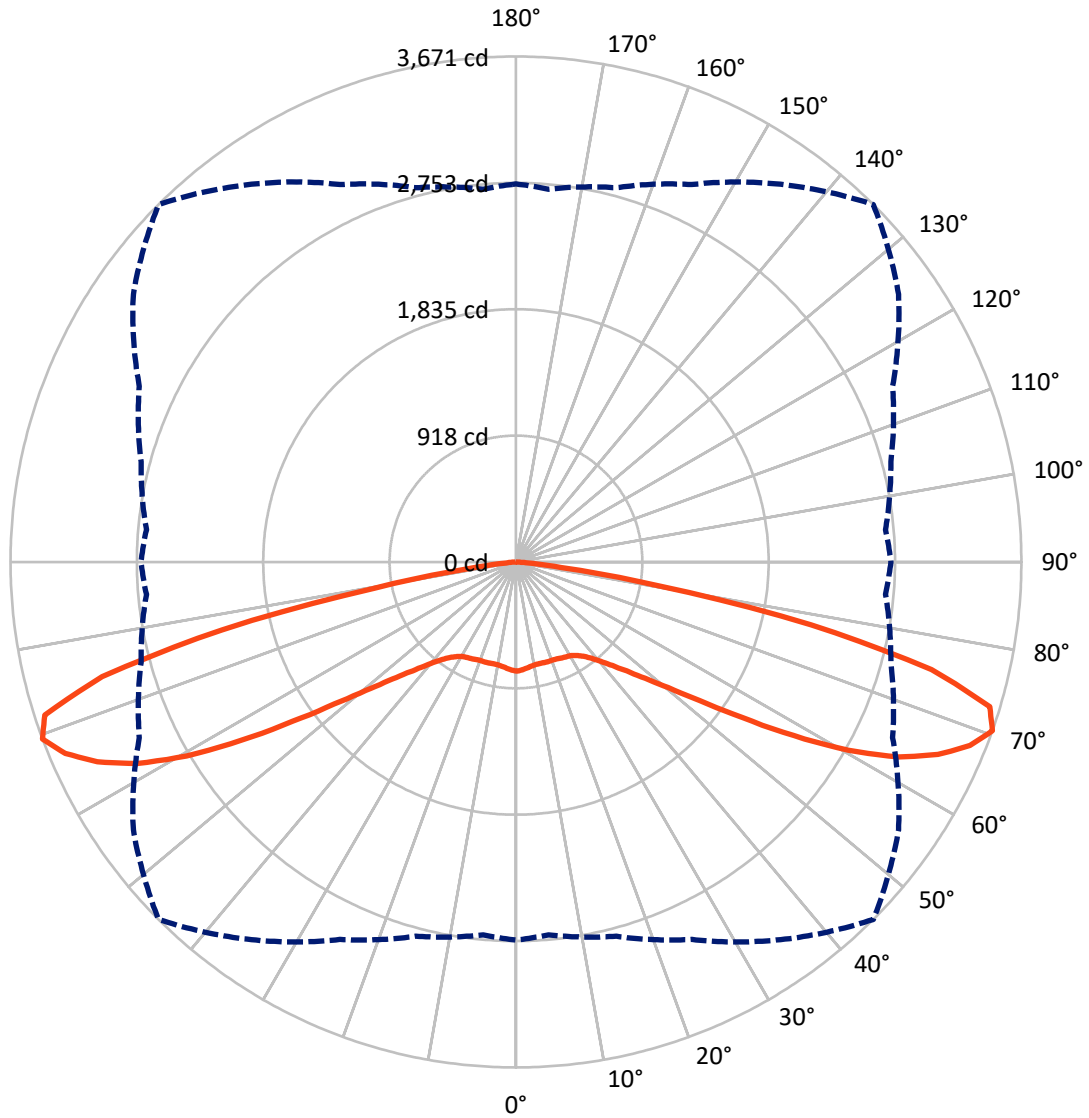
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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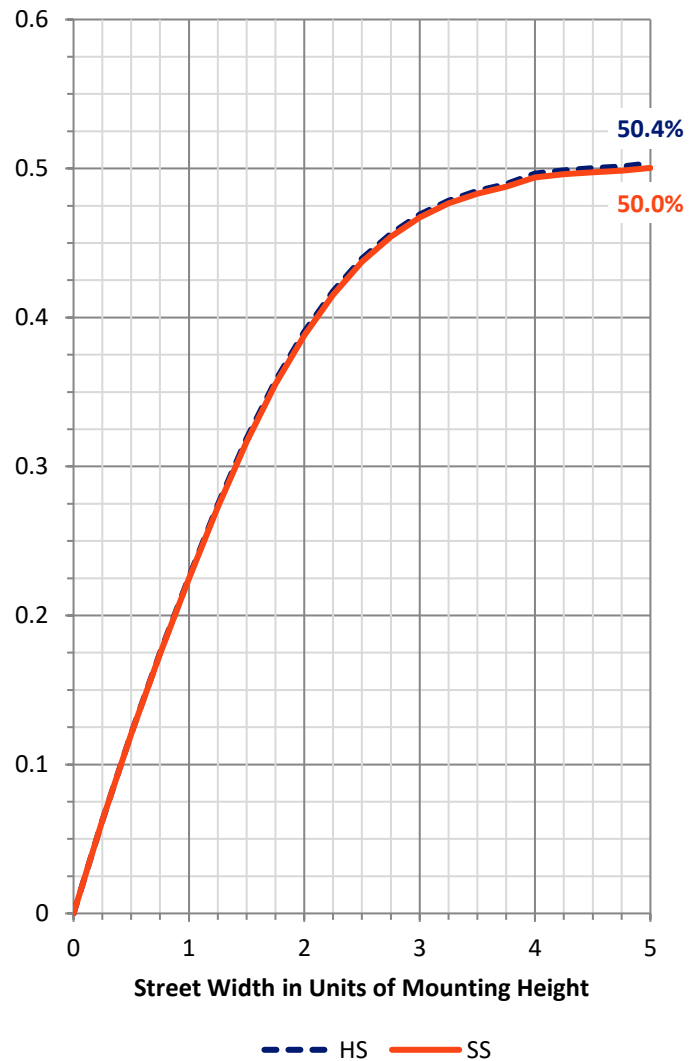
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4346.0 | 0.0 | 4346.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4346.0 | 0.0 | 4346.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8692.0 | 0.0 | 8692.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.8 | 0.8 |
| 10°-20° | 216.6 | 2.5 |
| 20°-30° | 360.4 | 4.1 |
| 30°-40° | 545.0 | 6.3 |
| 40°-50° | 905.7 | 10.4 |
| 50°-60° | 1709.1 | 19.7 |
| 60°-70° | 2885.8 | 33.2 |
| 70°-80° | 1896.3 | 21.8 |
| 80°-90° | 99.4 | 1.1 |
| 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° | 8692.0 | 100.0 |
| 0°-180° | 8692.0 | 100.0 |

Coefficient of Utilization



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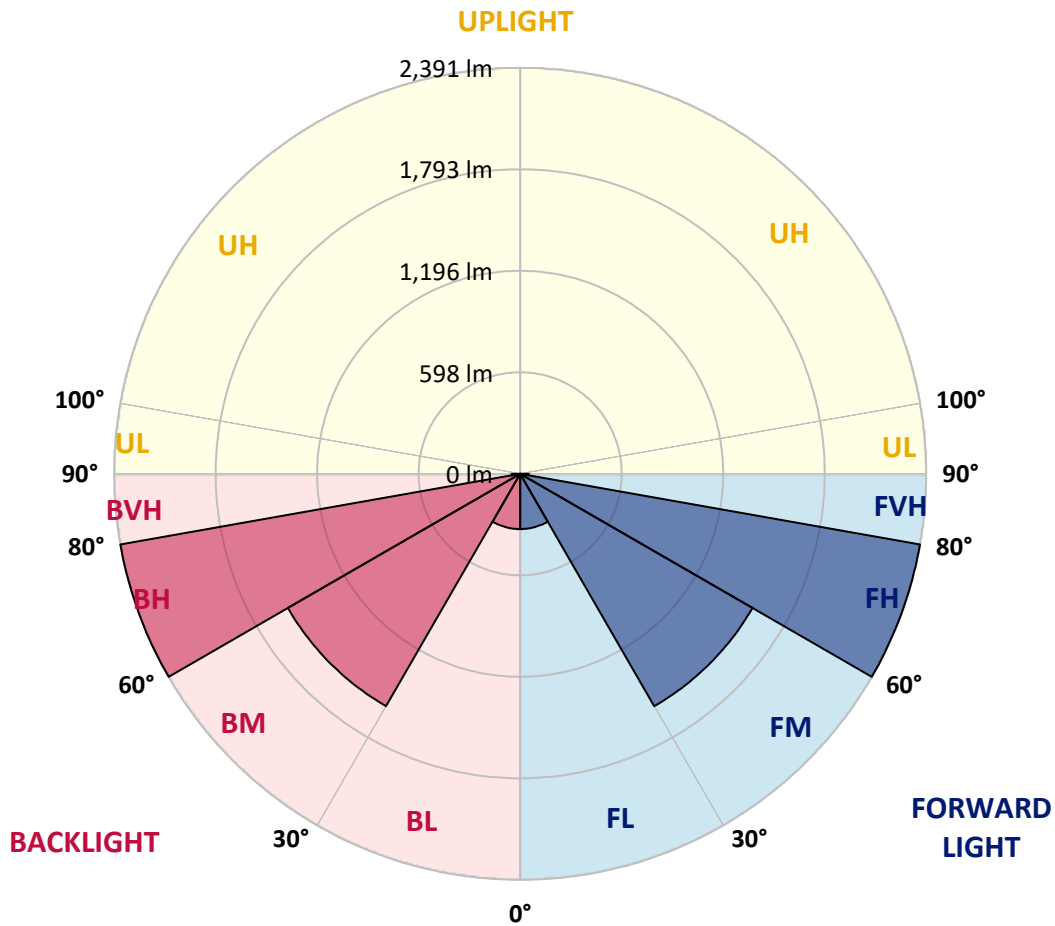
CATALOG NUMBER: NVN-SB1D-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 325.4 | 3.7 | | | |
| FM (30°-60°) | 1579.9 | 18.2 | | | |
| FH (60°-80°) | 2391.1 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 49.7 | 0.6 | | | G1/100 |
| BL (0°-30°) | 325.4 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1579.9 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 2391.1 | 27.5 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 49.7 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 |
| 2.5° | 787.9 | 790.2 | 789.3 | 787.5 | 787.5 | 786.1 | 787.5 | 788.4 | 789.7 | 790.6 | 790.2 |
| 5° | 777.5 | 779.3 | 778.9 | 777.5 | 778.0 | 776.6 | 777.5 | 778.9 | 779.8 | 780.2 | 780.2 |
| 7.5° | 768.5 | 770.3 | 769.4 | 767.1 | 767.1 | 765.8 | 766.2 | 767.6 | 768.9 | 769.4 | 769.4 |
| 10° | 766.2 | 768.0 | 765.3 | 761.7 | 760.4 | 758.5 | 759.0 | 760.4 | 763.1 | 764.4 | 764.4 |
| 12.5° | 767.1 | 768.5 | 765.8 | 760.4 | 759.0 | 757.2 | 757.2 | 758.5 | 762.2 | 764.0 | 764.4 |
| 15° | 769.8 | 771.2 | 767.1 | 761.3 | 759.9 | 758.5 | 758.1 | 759.9 | 764.0 | 767.1 | 767.6 |
| 17.5° | 774.8 | 776.2 | 769.8 | 761.7 | 759.9 | 760.4 | 759.9 | 761.3 | 767.6 | 773.5 | 773.5 |
| 20° | 779.3 | 780.2 | 771.7 | 761.7 | 759.9 | 760.4 | 759.9 | 762.6 | 770.7 | 778.9 | 779.3 |
| 22.5° | 780.7 | 781.6 | 773.5 | 764.9 | 763.5 | 764.0 | 763.5 | 766.2 | 773.9 | 782.0 | 782.0 |
| 25° | 781.1 | 782.5 | 776.2 | 769.4 | 771.7 | 772.6 | 771.7 | 772.1 | 778.0 | 785.2 | 784.8 |
| 27.5° | 787.9 | 789.7 | 783.8 | 778.0 | 779.3 | 778.9 | 780.2 | 781.6 | 786.1 | 793.3 | 791.5 |
| 30° | 801.9 | 803.3 | 798.3 | 792.4 | 791.5 | 788.4 | 792.4 | 797.0 | 801.9 | 808.2 | 806.9 |
| 32.5° | 825.0 | 827.7 | 821.3 | 815.0 | 811.0 | 809.1 | 812.3 | 820.0 | 826.8 | 833.5 | 830.8 |
| 35° | 863.4 | 865.2 | 859.3 | 847.6 | 840.3 | 840.3 | 843.0 | 853.0 | 863.8 | 872.4 | 869.2 |
| 37.5° | 917.6 | 919.8 | 909.4 | 895.4 | 884.6 | 884.6 | 888.2 | 898.6 | 914.9 | 927.1 | 922.5 |
| 40° | 983.5 | 986.7 | 973.6 | 959.1 | 948.8 | 946.9 | 951.5 | 963.2 | 978.6 | 993.9 | 989.0 |
| 42.5° | 1063.1 | 1066.7 | 1049.5 | 1036.9 | 1028.7 | 1028.7 | 1031.0 | 1041.8 | 1055.8 | 1074.8 | 1073.4 |
| 45° | 1164.7 | 1171.0 | 1147.5 | 1134.9 | 1127.2 | 1129.0 | 1130.4 | 1139.9 | 1152.5 | 1174.2 | 1173.3 |
| 47.5° | 1285.8 | 1292.1 | 1267.3 | 1254.2 | 1252.8 | 1261.4 | 1256.0 | 1262.7 | 1269.5 | 1294.4 | 1287.1 |
| 50° | 1423.1 | 1434.0 | 1416.8 | 1415.9 | 1418.6 | 1434.4 | 1421.8 | 1425.4 | 1417.7 | 1433.5 | 1424.0 |
| 52.5° | 1591.2 | 1607.0 | 1603.8 | 1609.3 | 1639.5 | 1672.1 | 1643.1 | 1630.5 | 1601.6 | 1606.6 | 1589.8 |
| 55° | 1794.9 | 1818.9 | 1823.4 | 1855.9 | 1924.6 | 1991.0 | 1929.6 | 1878.5 | 1817.1 | 1805.8 | 1788.2 |
| 57.5° | 2026.7 | 2045.7 | 2067.4 | 2133.8 | 2262.1 | 2380.0 | 2262.1 | 2149.1 | 2052.5 | 2029.4 | 2013.2 |
| 60° | 2276.1 | 2299.6 | 2320.4 | 2418.4 | 2609.1 | 2774.9 | 2605.5 | 2426.1 | 2298.2 | 2267.1 | 2240.0 |
| 62.5° | 2544.0 | 2574.3 | 2588.7 | 2697.6 | 2919.9 | 3117.8 | 2923.1 | 2705.7 | 2563.9 | 2530.5 | 2503.3 |
| 65° | 2801.1 | 2825.9 | 2842.2 | 2958.3 | 3170.6 | 3369.0 | 3185.1 | 2970.9 | 2825.0 | 2781.2 | 2759.5 |
| 67.5° | 2920.8 | 2934.4 | 2974.1 | 3105.6 | 3329.7 | 3556.0 | 3367.6 | 3119.6 | 2956.5 | 2879.7 | 2880.6 |
| 70° | 2745.5 | 2717.9 | 2813.7 | 3024.3 | 3348.6 | 3670.8 | 3392.0 | 3017.9 | 2818.2 | 2693.6 | 2723.4 |
| 72.5° | 2121.6 | 2074.2 | 2240.4 | 2600.5 | 3131.8 | 3597.6 | 3153.5 | 2620.8 | 2343.9 | 2090.9 | 2153.7 |
| 75° | 1154.3 | 1100.6 | 1330.1 | 1785.5 | 2497.5 | 3118.2 | 2554.9 | 1836.5 | 1481.0 | 1145.7 | 1220.3 |
| 77.5° | 325.7 | 305.4 | 490.6 | 863.8 | 1502.2 | 2189.4 | 1560.0 | 882.8 | 581.9 | 345.2 | 383.6 |
| 80° | 99.8 | 96.7 | 131.0 | 260.2 | 637.9 | 1048.6 | 613.1 | 263.4 | 166.7 | 105.3 | 111.1 |
| 82.5° | 59.2 | 54.2 | 65.1 | 94.9 | 162.6 | 329.4 | 158.1 | 98.9 | 79.5 | 53.3 | 57.8 |
| 85° | 33.9 | 31.6 | 38.4 | 46.1 | 54.7 | 70.0 | 45.6 | 47.0 | 42.5 | 28.5 | 29.8 |
| 87.5° | 14.0 | 12.7 | 14.9 | 14.5 | 12.7 | 16.3 | 12.2 | 14.5 | 17.2 | 11.3 | 10.4 |
| 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)