

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: P884775

Luminaire Tested: **NVN-SB5D-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50284 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

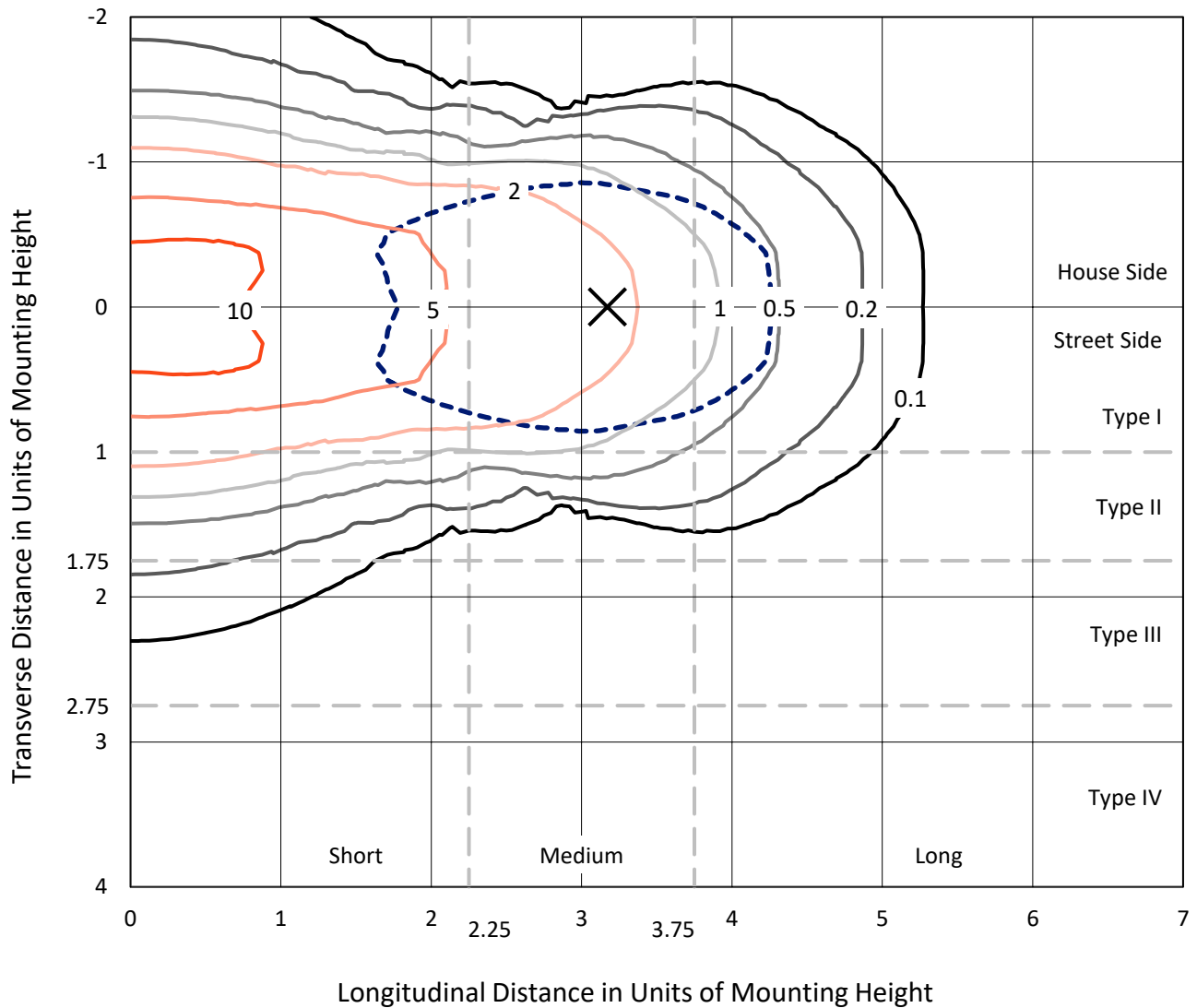
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

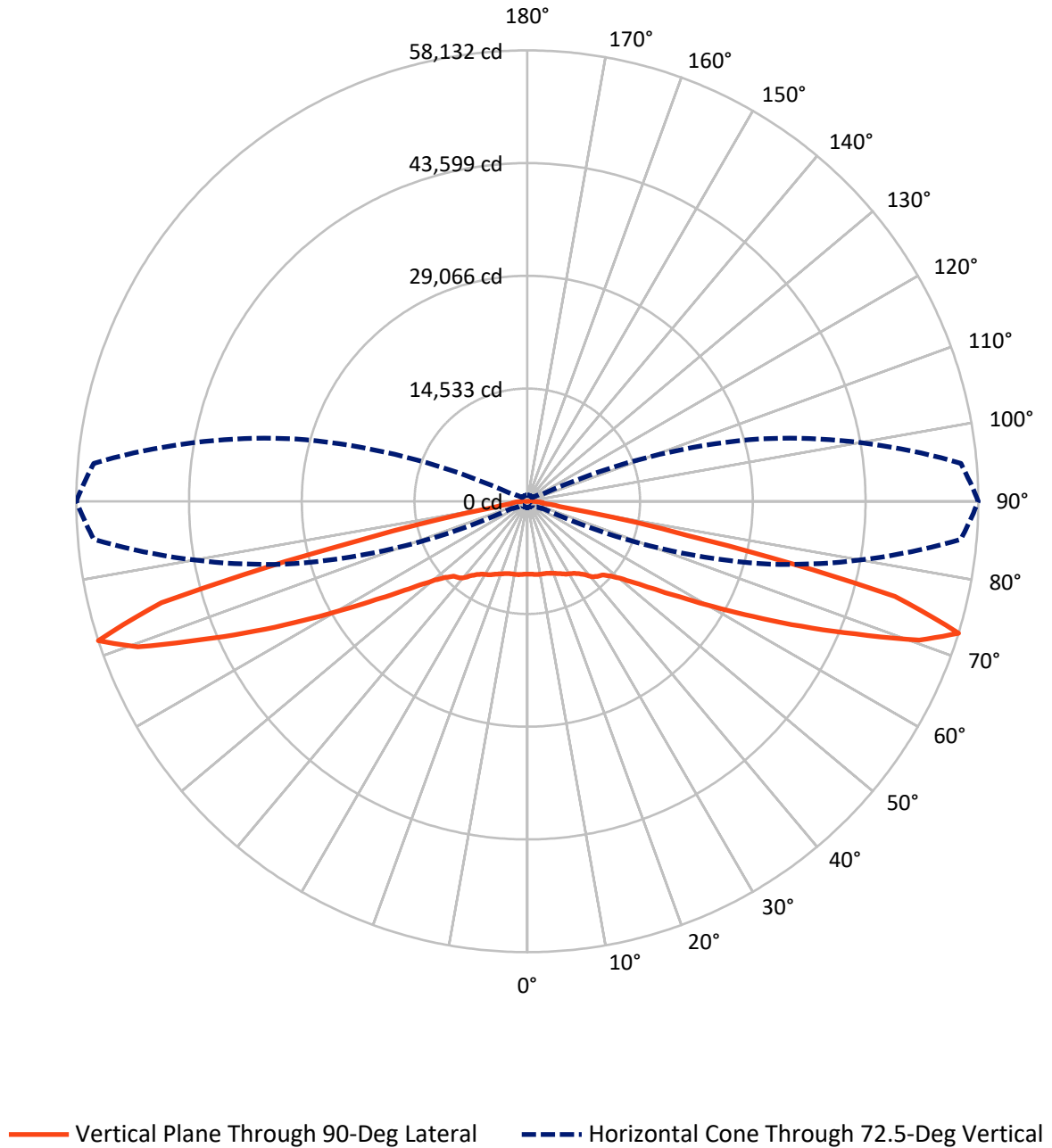
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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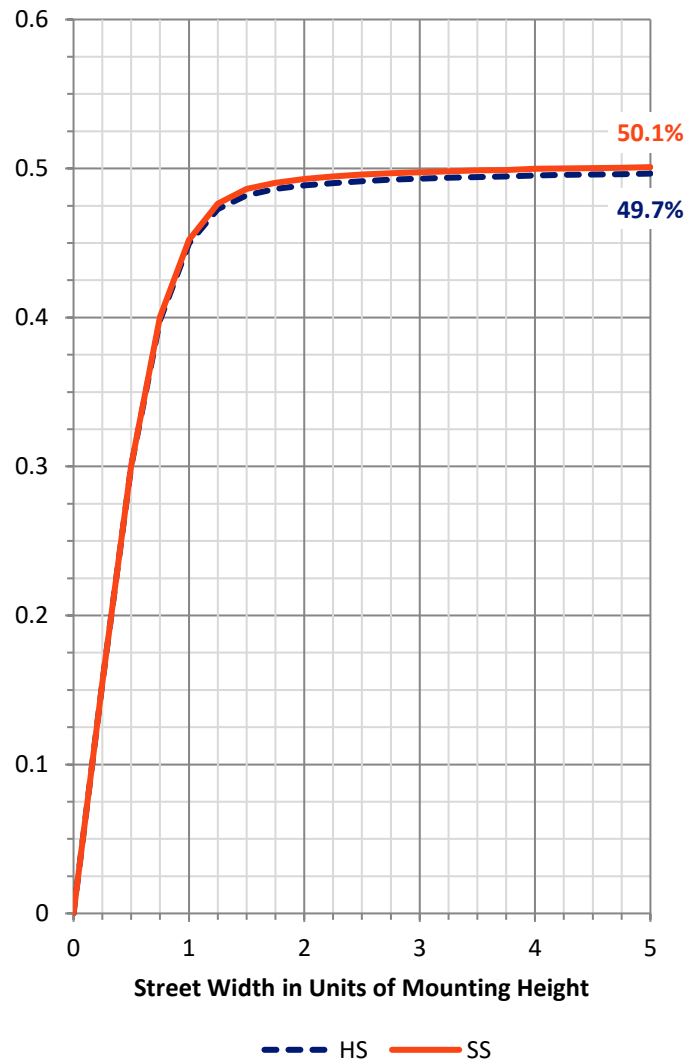
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 25142.0 | 0.0 | 25142.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 25142.0 | 0.0 | 25142.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 50284.0 | 0.0 | 50284.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 911.1 | 1.8 |
| 10°-20° | 2785.7 | 5.5 |
| 20°-30° | 4644.9 | 9.2 |
| 30°-40° | 6388.1 | 12.7 |
| 40°-50° | 7801.6 | 15.5 |
| 50°-60° | 9023.4 | 17.9 |
| 60°-70° | 10759.0 | 21.4 |
| 70°-80° | 7509.0 | 14.9 |
| 80°-90° | 461.2 | 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° | 50284.0 | 100.0 |
| 0°-180° | 50284.0 | 100.0 |

Coefficient of Utilization



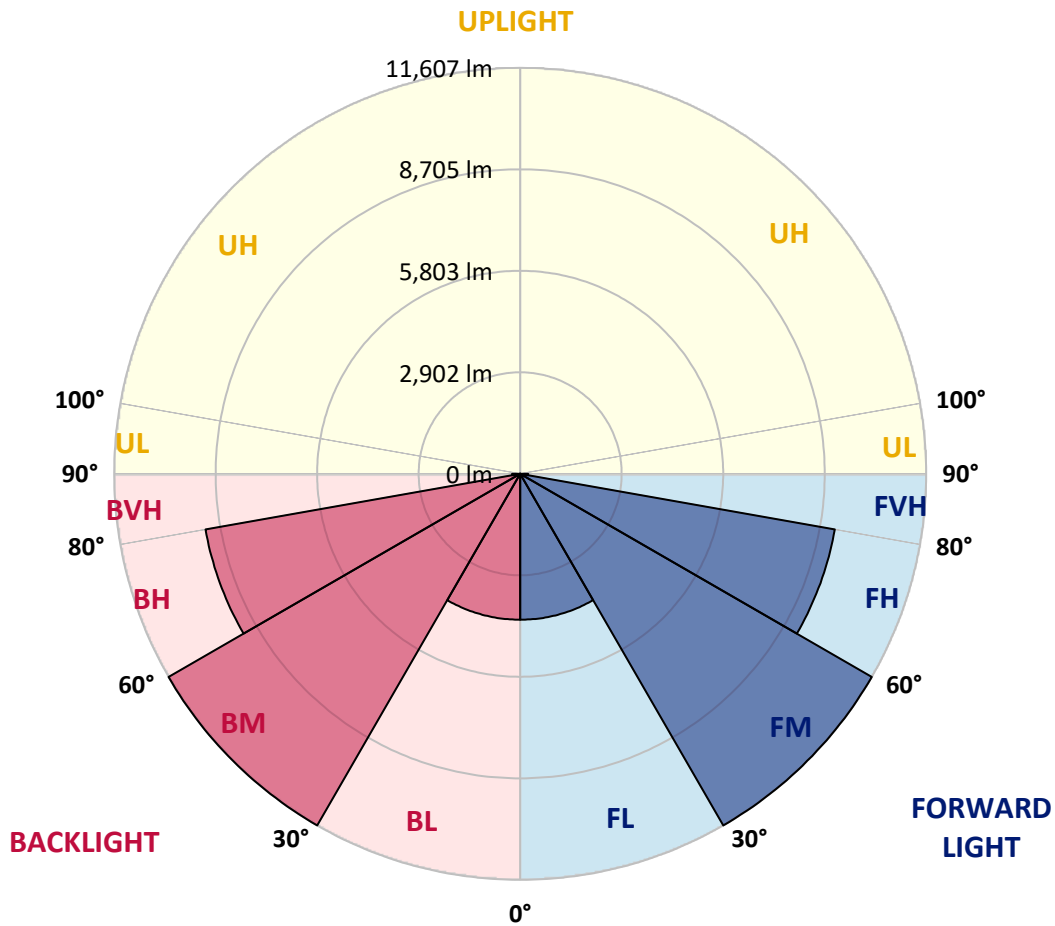
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4170.8 | 8.3 | | | |
| FM (30°-60°) | 11606.6 | 23.1 | | | |
| FH (60°-80°) | 9134.0 | 18.2 | | | G4/12000 |
| FVH (80°-90°) | 230.6 | 0.5 | | | G3/500 |
| BL (0°-30°) | 4170.8 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 11606.6 | 23.1 | B5 | | |
| BH (60°-80°) | 9134.0 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 230.6 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9396.1 | 9396.1 | 9396.1 | 9396.1 | 9396.1 | 9396.1 | 9396.1 | 9396.1 | 9396.1 | 9396.1 | 9396.1 |
| 2.5° | 9404.1 | 9414.8 | 9414.8 | 9406.8 | 9425.5 | 9409.5 | 9409.5 | 9401.4 | 9409.5 | 9401.4 | 9401.4 |
| 5° | 9452.2 | 9465.6 | 9470.9 | 9468.3 | 9492.3 | 9478.9 | 9478.9 | 9468.3 | 9470.9 | 9462.9 | 9462.9 |
| 7.5° | 9543.1 | 9561.8 | 9572.5 | 9585.8 | 9620.6 | 9604.5 | 9593.9 | 9561.8 | 9548.4 | 9527.0 | 9527.0 |
| 10° | 9572.5 | 9593.9 | 9628.6 | 9698.1 | 9778.2 | 9780.9 | 9748.9 | 9668.7 | 9607.2 | 9559.1 | 9551.1 |
| 12.5° | 9481.6 | 9511.0 | 9583.2 | 9724.8 | 9903.8 | 9976.0 | 9925.2 | 9791.6 | 9671.4 | 9585.8 | 9572.5 |
| 15° | 9366.7 | 9398.8 | 9508.3 | 9722.1 | 9986.7 | 10155.1 | 10149.7 | 9973.3 | 9780.9 | 9647.3 | 9625.9 |
| 17.5° | 9187.7 | 9219.7 | 9377.4 | 9676.7 | 10050.8 | 10328.8 | 10403.6 | 10221.9 | 9952.0 | 9772.9 | 9743.5 |
| 20° | 8864.3 | 8893.7 | 9112.8 | 9532.4 | 10072.2 | 10513.2 | 10708.2 | 10547.9 | 10211.2 | 9968.0 | 9922.6 |
| 22.5° | 8444.7 | 8490.2 | 8746.7 | 9283.9 | 10021.4 | 10705.6 | 11055.6 | 10946.1 | 10513.2 | 10176.4 | 10115.0 |
| 25° | 7995.8 | 8043.9 | 8343.2 | 8979.2 | 9890.5 | 10844.5 | 11467.2 | 11397.7 | 10855.2 | 10435.7 | 10350.1 |
| 27.5° | 7608.3 | 7659.0 | 7985.1 | 8677.2 | 9687.4 | 10898.0 | 11873.4 | 11908.1 | 11269.4 | 10721.6 | 10630.7 |
| 30° | 7303.6 | 7351.7 | 7699.1 | 8434.0 | 9425.5 | 10844.5 | 12228.8 | 12469.3 | 11691.7 | 10970.1 | 10839.2 |
| 32.5° | 6969.6 | 7031.0 | 7397.2 | 8137.4 | 9115.5 | 10716.3 | 12538.8 | 13076.0 | 12180.7 | 11237.4 | 11071.7 |
| 35° | 6547.3 | 6603.5 | 6988.3 | 7731.2 | 8709.3 | 10510.5 | 12798.0 | 13749.4 | 12880.9 | 11643.6 | 11459.2 |
| 37.5° | 6034.2 | 6087.7 | 6469.8 | 7223.4 | 8305.8 | 10221.9 | 12995.8 | 14508.4 | 13714.7 | 12228.8 | 11983.0 |
| 40° | 5518.5 | 5569.2 | 5927.3 | 6656.9 | 7822.1 | 9853.1 | 13065.3 | 15251.3 | 14671.4 | 13033.2 | 12771.3 |
| 42.5° | 5045.5 | 5090.9 | 5419.6 | 6098.4 | 7279.6 | 9382.7 | 12974.4 | 15898.0 | 15529.2 | 13594.4 | 13257.7 |
| 45° | 4609.9 | 4649.9 | 4941.2 | 5574.6 | 6715.7 | 8810.8 | 12701.8 | 16592.8 | 16550.1 | 13995.3 | 13541.0 |
| 47.5° | 4112.8 | 4152.9 | 4454.9 | 5066.8 | 6151.8 | 8140.1 | 12239.5 | 17277.0 | 17969.1 | 14903.9 | 14380.1 |
| 50° | 3506.2 | 3540.9 | 3850.9 | 4481.6 | 5566.6 | 7426.6 | 11598.1 | 17814.1 | 19759.6 | 16280.2 | 15622.7 |
| 52.5° | 2787.3 | 2824.7 | 3126.7 | 3757.4 | 4871.8 | 6659.6 | 10753.7 | 18164.2 | 21828.0 | 18289.8 | 17480.1 |
| 55° | 2073.8 | 2100.5 | 2362.4 | 2928.9 | 4011.2 | 5785.7 | 9695.4 | 18263.1 | 24174.4 | 21037.0 | 20024.2 |
| 57.5° | 1504.6 | 1520.6 | 1688.9 | 2111.2 | 3041.2 | 4692.7 | 8410.0 | 18006.5 | 26967.0 | 24559.2 | 23284.5 |
| 60° | 1218.6 | 1224.0 | 1274.7 | 1461.8 | 2113.9 | 3458.1 | 6857.3 | 17124.6 | 29997.5 | 29099.6 | 27493.5 |
| 62.5° | 1106.4 | 1106.4 | 1119.7 | 1170.5 | 1429.7 | 2282.2 | 4978.6 | 15296.7 | 33247.1 | 34837.2 | 32685.9 |
| 65° | 1028.9 | 1028.9 | 1034.2 | 1058.3 | 1127.7 | 1453.8 | 3142.7 | 12319.7 | 35986.3 | 41558.2 | 38837.7 |
| 67.5° | 959.4 | 962.1 | 959.4 | 967.4 | 1007.5 | 1074.3 | 1822.6 | 8508.9 | 37461.5 | 48522.4 | 45585.5 |
| 70° | 887.2 | 892.6 | 879.2 | 879.2 | 911.3 | 914.0 | 1141.1 | 4666.0 | 36237.5 | 54358.9 | 53586.6 |
| 72.5° | 801.7 | 809.7 | 788.4 | 783.0 | 807.1 | 796.4 | 857.8 | 2239.5 | 31111.9 | 56101.3 | 58132.3 |
| 75° | 726.9 | 737.6 | 689.5 | 676.1 | 676.1 | 668.1 | 697.5 | 1149.1 | 20192.5 | 45764.5 | 48950.0 |
| 77.5° | 660.1 | 681.5 | 604.0 | 561.2 | 550.5 | 526.5 | 569.2 | 702.8 | 8832.2 | 21486.0 | 21039.7 |
| 80° | 545.2 | 574.6 | 497.1 | 446.3 | 427.6 | 400.9 | 449.0 | 491.7 | 2627.0 | 4989.3 | 4778.2 |
| 82.5° | 406.2 | 419.6 | 352.8 | 318.0 | 302.0 | 283.3 | 336.7 | 342.1 | 855.2 | 1766.4 | 1996.3 |
| 85° | 259.2 | 264.6 | 216.5 | 187.1 | 179.0 | 171.0 | 213.8 | 187.1 | 326.0 | 1298.8 | 1886.7 |
| 87.5° | 90.9 | 104.2 | 82.8 | 74.8 | 80.2 | 66.8 | 98.9 | 56.1 | 90.9 | 916.6 | 1135.8 |
| 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)