

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: P884762

Luminaire Tested: **NVN-SB5D-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884762
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-SB5D-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47334 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

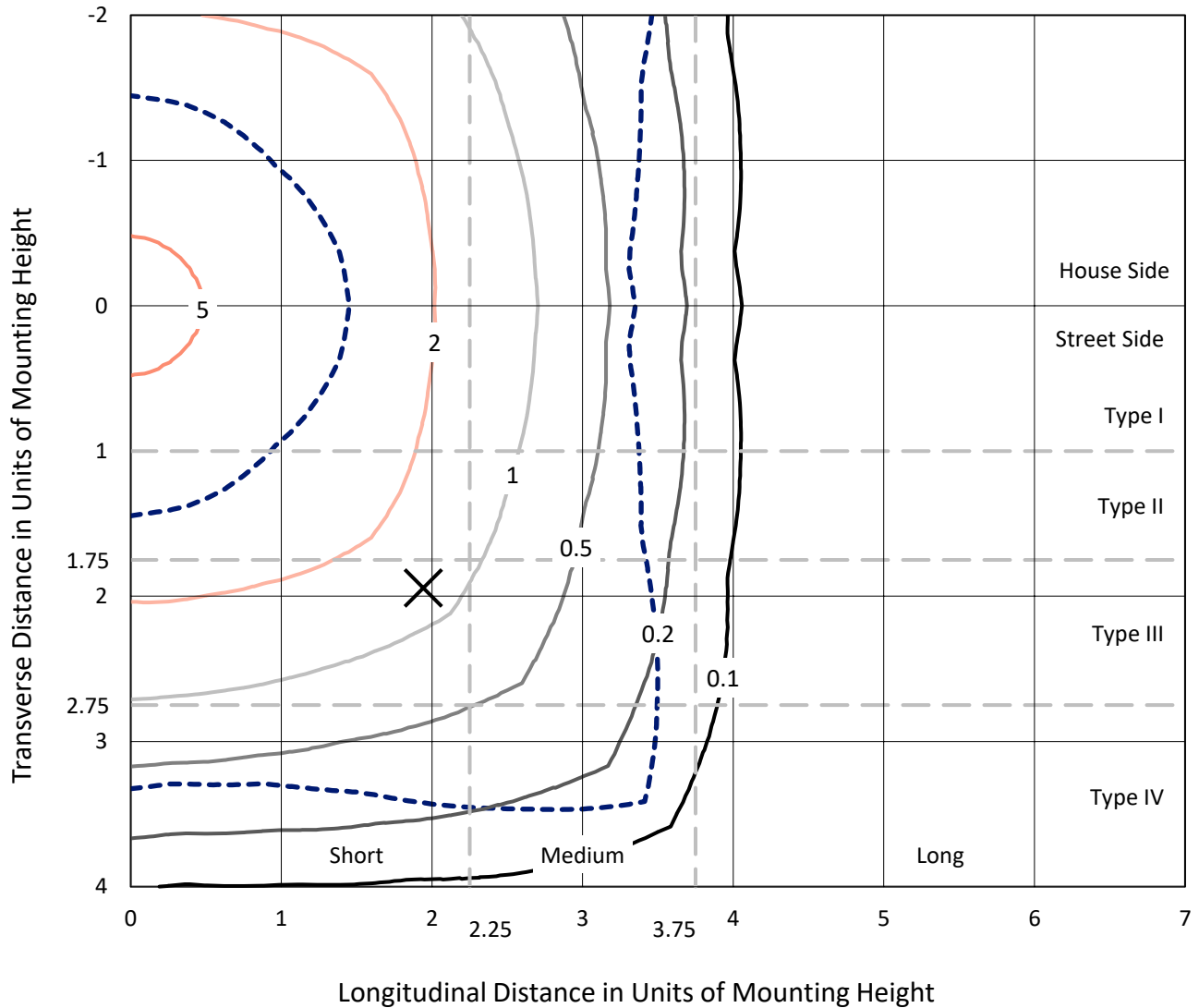
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

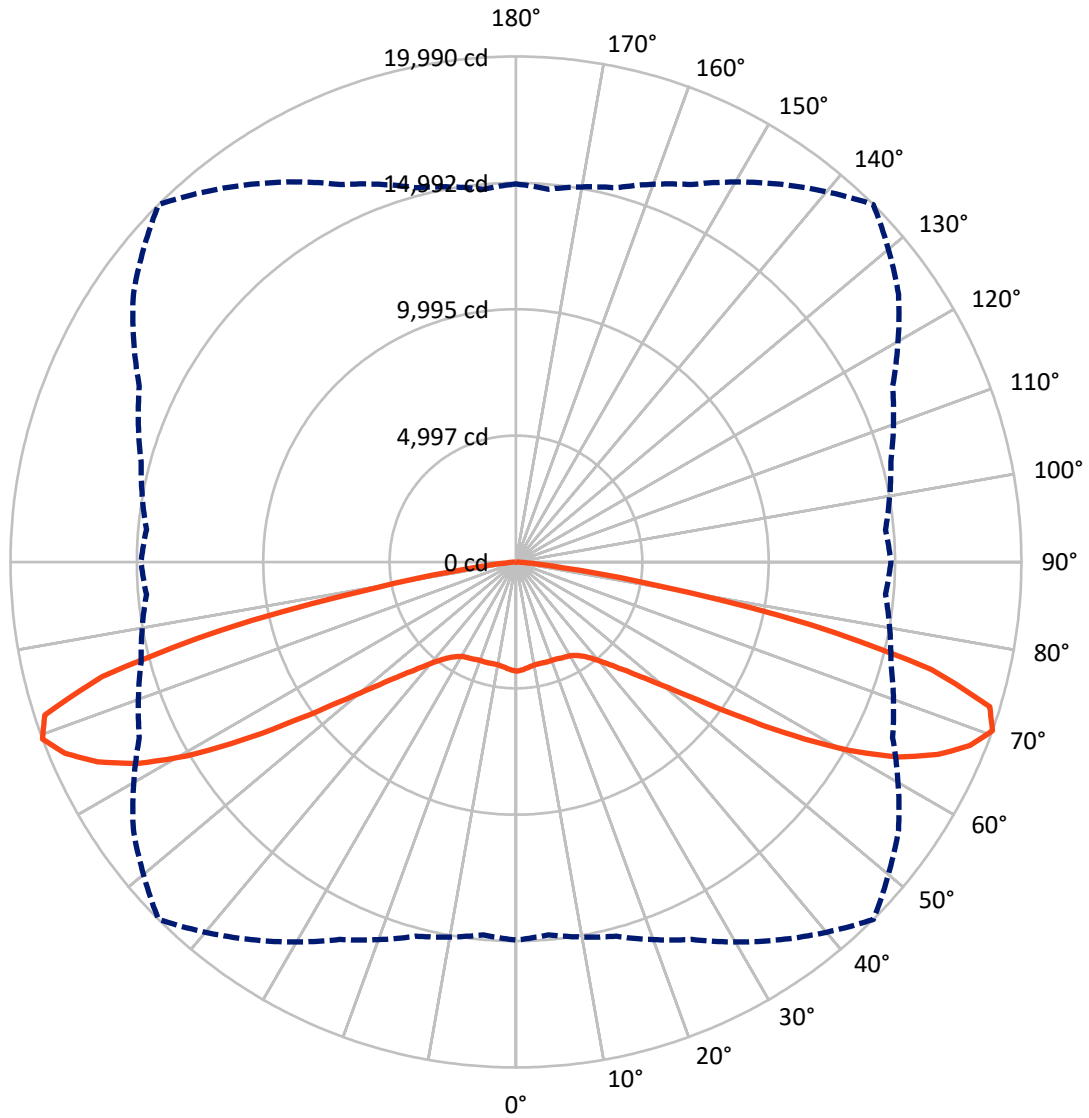
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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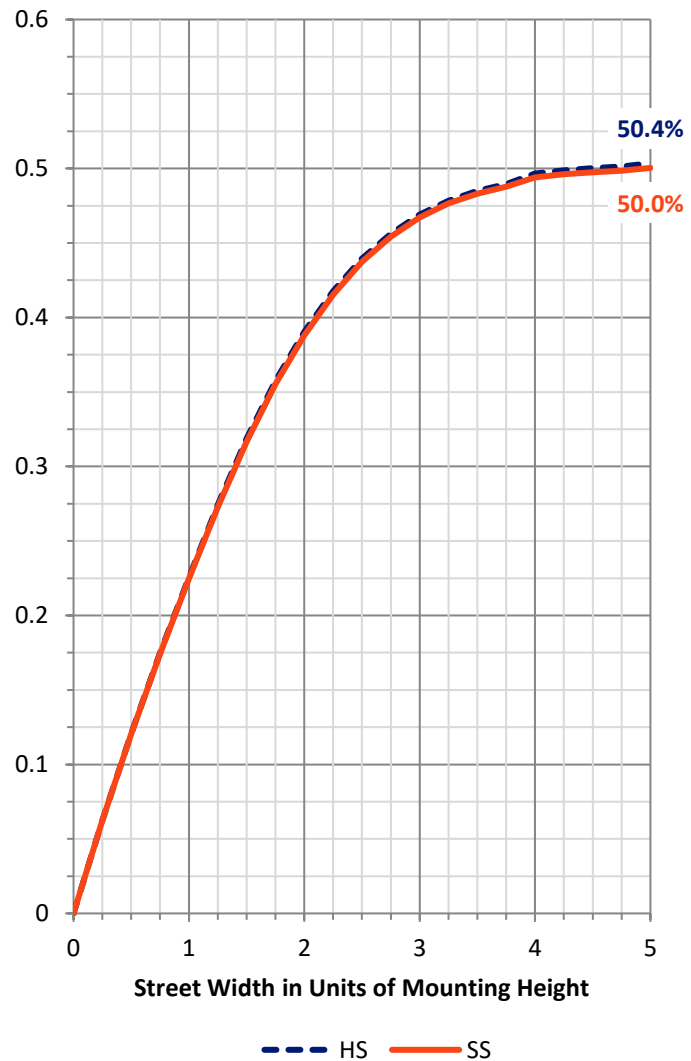
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23667.0 | 0.0 | 23667.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23667.0 | 0.0 | 23667.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 47334.0 | 0.0 | 47334.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 401.7 | 0.8 |
| 10°-20° | 1179.4 | 2.5 |
| 20°-30° | 1962.6 | 4.1 |
| 30°-40° | 2968.1 | 6.3 |
| 40°-50° | 4932.3 | 10.4 |
| 50°-60° | 9307.0 | 19.7 |
| 60°-70° | 15715.3 | 33.2 |
| 70°-80° | 10326.6 | 21.8 |
| 80°-90° | 541.0 | 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° | 47334.0 | 100.0 |
| 0°-180° | 47334.0 | 100.0 |

Coefficient of Utilization



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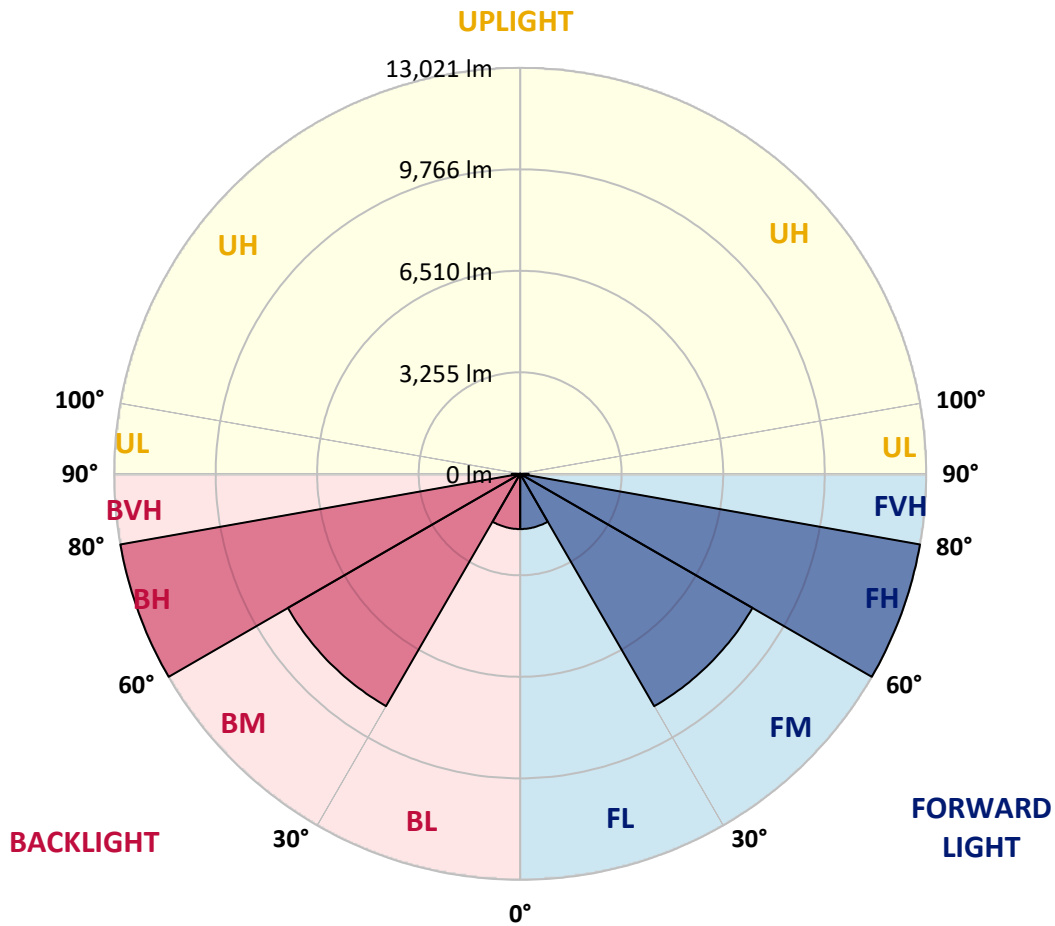
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1771.8 | 3.7 | | | |
| FM (30°-60°) | 8603.7 | 18.2 | | | |
| FH (60°-80°) | 13021.0 | 27.5 | | | G5 |
| FVH (80°-90°) | 270.5 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1771.8 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 8603.7 | 18.2 | B5 | | |
| BH (60°-80°) | 13021.0 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 270.5 | 0.6 | | | 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 V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4317.8 | 4317.8 | 4317.8 | 4317.8 | 4317.8 | 4317.8 | 4317.8 | 4317.8 | 4317.8 | 4317.8 | 4317.8 |
| 2.5° | 4290.8 | 4303.1 | 4298.1 | 4288.3 | 4288.3 | 4280.9 | 4288.3 | 4293.2 | 4300.6 | 4305.5 | 4303.1 |
| 5° | 4234.2 | 4244.0 | 4241.5 | 4234.2 | 4236.6 | 4229.2 | 4234.2 | 4241.5 | 4246.5 | 4248.9 | 4248.9 |
| 7.5° | 4185.0 | 4194.8 | 4189.9 | 4177.6 | 4177.6 | 4170.2 | 4172.7 | 4180.0 | 4187.4 | 4189.9 | 4189.9 |
| 10° | 4172.7 | 4182.5 | 4167.7 | 4148.1 | 4140.7 | 4130.8 | 4133.3 | 4140.7 | 4155.4 | 4162.8 | 4162.8 |
| 12.5° | 4177.6 | 4185.0 | 4170.2 | 4140.7 | 4133.3 | 4123.5 | 4123.5 | 4130.8 | 4150.5 | 4160.4 | 4162.8 |
| 15° | 4192.3 | 4199.7 | 4177.6 | 4145.6 | 4138.2 | 4130.8 | 4128.4 | 4138.2 | 4160.4 | 4177.6 | 4180.0 |
| 17.5° | 4219.4 | 4226.8 | 4192.3 | 4148.1 | 4138.2 | 4140.7 | 4138.2 | 4145.6 | 4180.0 | 4212.0 | 4212.0 |
| 20° | 4244.0 | 4248.9 | 4202.2 | 4148.1 | 4138.2 | 4140.7 | 4138.2 | 4153.0 | 4197.3 | 4241.5 | 4244.0 |
| 22.5° | 4251.4 | 4256.3 | 4212.0 | 4165.3 | 4157.9 | 4160.4 | 4157.9 | 4172.7 | 4214.5 | 4258.8 | 4258.8 |
| 25° | 4253.8 | 4261.2 | 4226.8 | 4189.9 | 4202.2 | 4207.1 | 4202.2 | 4204.6 | 4236.6 | 4276.0 | 4273.5 |
| 27.5° | 4290.8 | 4300.6 | 4268.6 | 4236.6 | 4244.0 | 4241.5 | 4248.9 | 4256.3 | 4280.9 | 4320.3 | 4310.4 |
| 30° | 4367.0 | 4374.4 | 4347.3 | 4315.4 | 4310.4 | 4293.2 | 4315.4 | 4340.0 | 4367.0 | 4401.5 | 4394.1 |
| 32.5° | 4492.5 | 4507.3 | 4472.8 | 4438.4 | 4416.2 | 4406.4 | 4423.6 | 4465.4 | 4502.3 | 4539.2 | 4524.5 |
| 35° | 4701.6 | 4711.5 | 4679.5 | 4615.5 | 4576.1 | 4576.1 | 4590.9 | 4645.0 | 4704.1 | 4750.8 | 4733.6 |
| 37.5° | 4996.9 | 5009.2 | 4952.6 | 4876.3 | 4817.3 | 4817.3 | 4836.9 | 4893.5 | 4982.1 | 5048.5 | 5023.9 |
| 40° | 5356.1 | 5373.3 | 5301.9 | 5223.2 | 5166.6 | 5156.8 | 5181.4 | 5245.3 | 5329.0 | 5412.6 | 5385.6 |
| 42.5° | 5789.1 | 5808.8 | 5715.3 | 5646.4 | 5602.1 | 5602.1 | 5614.4 | 5673.4 | 5749.7 | 5853.0 | 5845.7 |
| 45° | 6342.6 | 6377.1 | 6249.1 | 6180.3 | 6138.4 | 6148.3 | 6155.7 | 6207.3 | 6276.2 | 6394.3 | 6389.4 |
| 47.5° | 7002.0 | 7036.4 | 6901.1 | 6829.8 | 6822.4 | 6869.1 | 6839.6 | 6876.5 | 6913.4 | 7048.7 | 7009.4 |
| 50° | 7749.9 | 7809.0 | 7715.5 | 7710.6 | 7725.3 | 7811.4 | 7742.5 | 7762.2 | 7720.4 | 7806.5 | 7754.8 |
| 52.5° | 8665.2 | 8751.3 | 8734.0 | 8763.6 | 8928.4 | 9105.5 | 8948.1 | 8879.2 | 8721.7 | 8748.8 | 8657.8 |
| 55° | 9774.7 | 9905.1 | 9929.7 | 10106.9 | 10480.8 | 10842.5 | 10507.9 | 10229.9 | 9895.3 | 9833.8 | 9737.8 |
| 57.5° | 11036.9 | 11140.2 | 11258.3 | 11620.0 | 12318.7 | 12960.8 | 12318.7 | 11703.6 | 11177.1 | 11051.6 | 10963.1 |
| 60° | 12395.0 | 12522.9 | 12636.1 | 13169.9 | 14208.2 | 15111.1 | 14188.5 | 13211.8 | 12515.5 | 12345.7 | 12198.1 |
| 62.5° | 13853.9 | 14018.7 | 14097.5 | 14690.4 | 15900.9 | 16978.5 | 15918.1 | 14734.7 | 13962.2 | 13780.1 | 13632.5 |
| 65° | 15253.8 | 15389.1 | 15477.7 | 16110.0 | 17266.3 | 18346.4 | 17345.1 | 16178.9 | 15384.2 | 15145.6 | 15027.5 |
| 67.5° | 15905.8 | 15979.6 | 16196.1 | 16912.1 | 18132.4 | 19365.0 | 18339.0 | 16988.3 | 16100.2 | 15681.9 | 15686.8 |
| 70° | 14951.2 | 14801.1 | 15322.7 | 16469.2 | 18235.7 | 19989.9 | 18471.9 | 16434.8 | 15347.3 | 14668.3 | 14830.6 |
| 72.5° | 11553.5 | 11295.2 | 12200.6 | 14161.4 | 17054.7 | 19591.3 | 17172.8 | 14272.2 | 12764.0 | 11386.2 | 11728.2 |
| 75° | 6286.0 | 5993.3 | 7243.1 | 9723.1 | 13600.5 | 16980.9 | 13913.0 | 10001.1 | 8064.8 | 6239.3 | 6645.3 |
| 77.5° | 1773.9 | 1663.2 | 2671.9 | 4704.1 | 8180.5 | 11922.6 | 8495.4 | 4807.4 | 3168.9 | 1879.7 | 2088.8 |
| 80° | 543.7 | 526.5 | 713.5 | 1417.1 | 3473.9 | 5710.3 | 3338.6 | 1434.4 | 907.8 | 573.2 | 605.2 |
| 82.5° | 322.3 | 295.2 | 354.3 | 516.7 | 885.7 | 1793.6 | 861.1 | 538.8 | 433.0 | 290.3 | 314.9 |
| 85° | 184.5 | 172.2 | 209.1 | 250.9 | 297.7 | 381.3 | 248.5 | 255.9 | 231.3 | 155.0 | 162.4 |
| 87.5° | 76.3 | 68.9 | 81.2 | 78.7 | 68.9 | 88.6 | 66.4 | 78.7 | 93.5 | 61.5 | 56.6 |
| 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)