

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: P510083

Luminaire Tested: **VERD-M-CA4-200-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 910mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30522 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

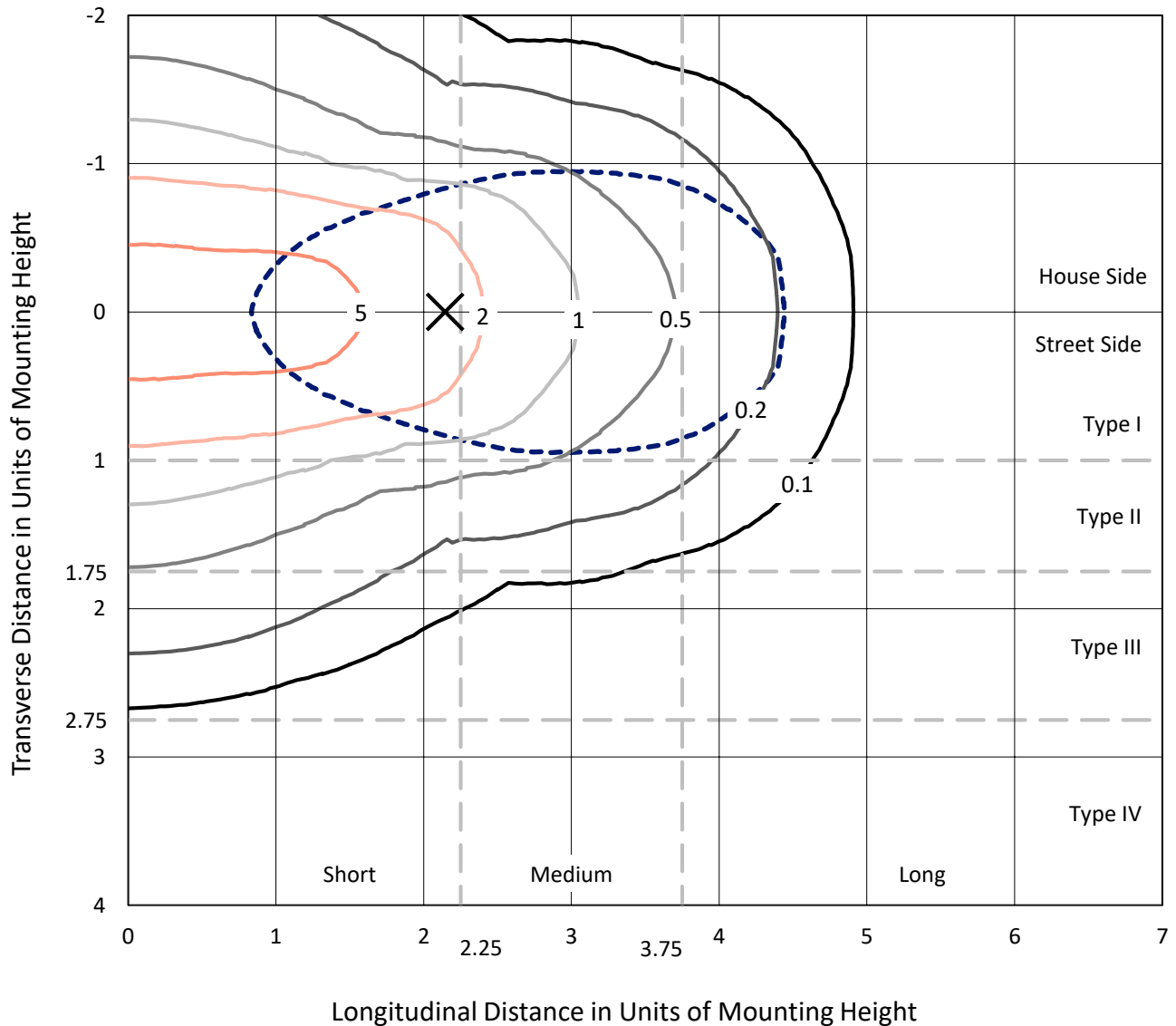
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

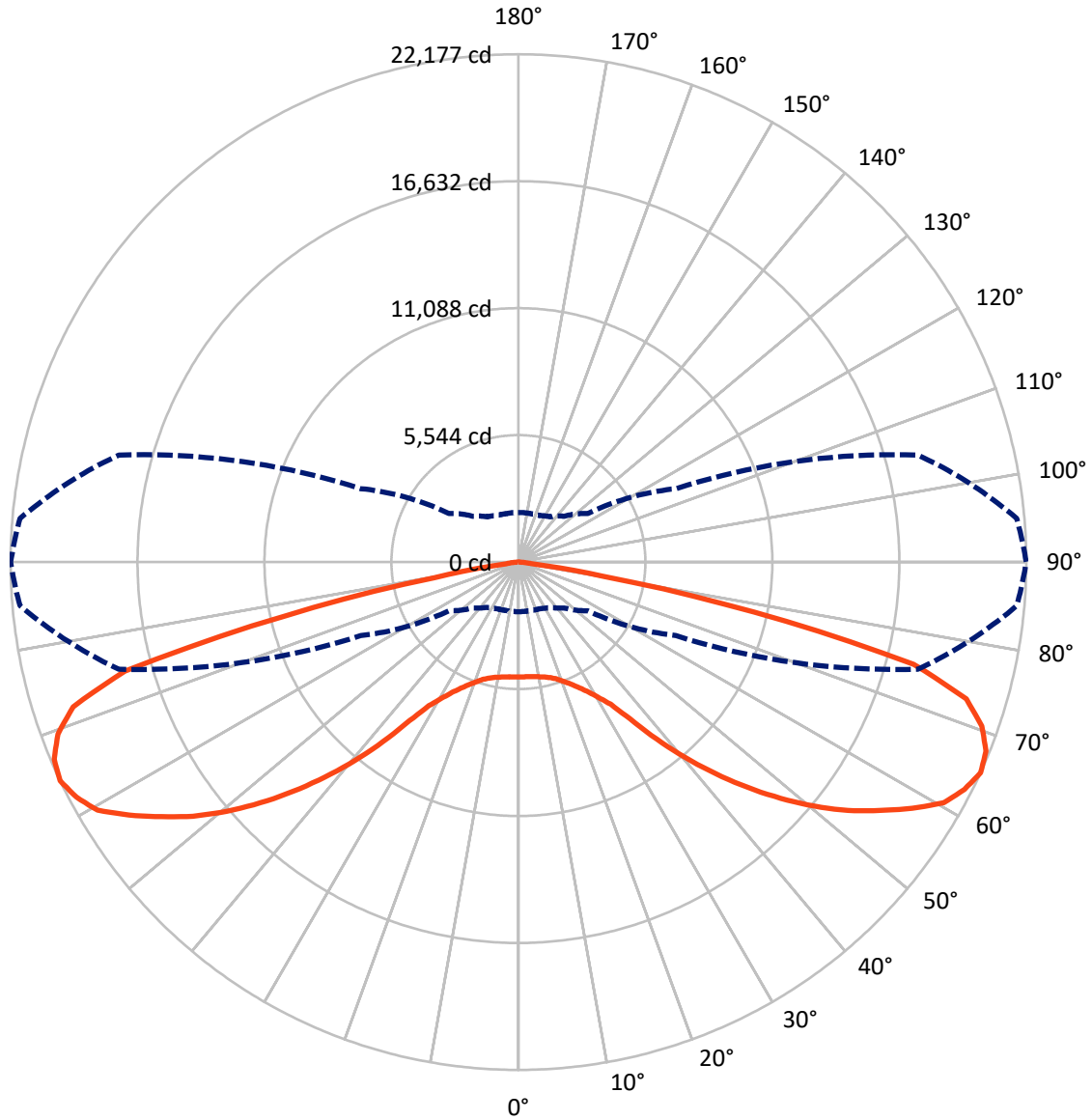
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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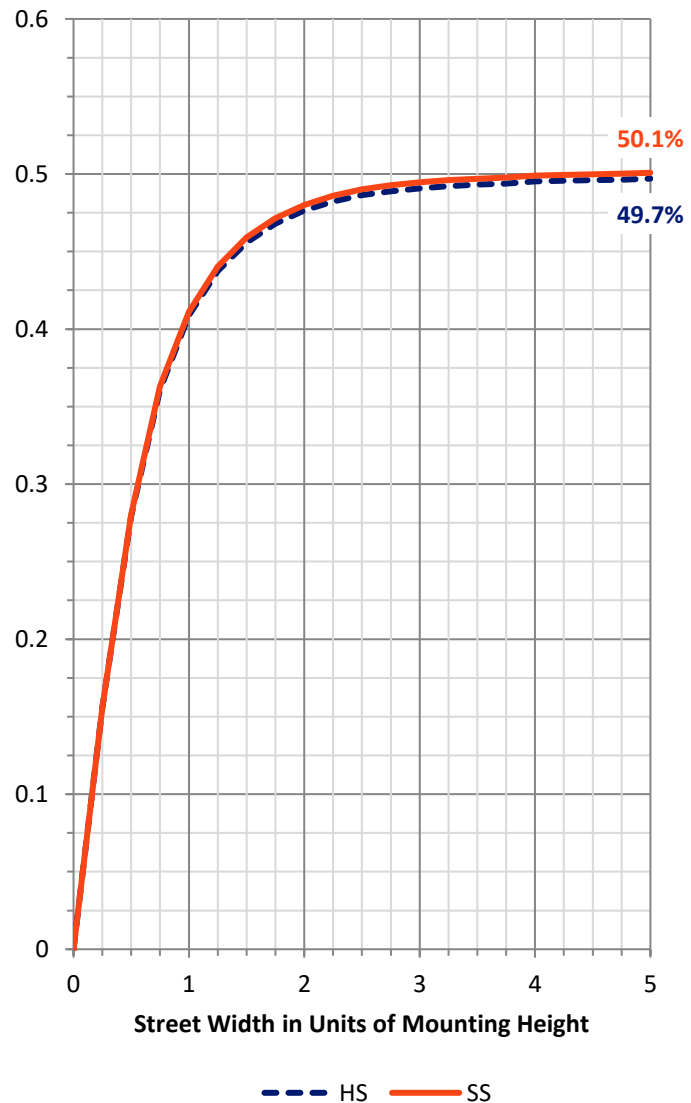
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15261.0 | 0.0 | 15261.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15261.0 | 0.0 | 15261.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30522.0 | 0.0 | 30522.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 477.9 | 1.6 |
| 10°-20° | 1419.1 | 4.6 |
| 20°-30° | 2342.8 | 7.7 |
| 30°-40° | 3432.8 | 11.2 |
| 40°-50° | 5007.4 | 16.4 |
| 50°-60° | 6482.9 | 21.2 |
| 60°-70° | 6830.2 | 22.4 |
| 70°-80° | 4168.7 | 13.7 |
| 80°-90° | 360.4 | 1.2 |
| 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° | 30522.0 | 100.0 |
| 0°-180° | 30522.0 | 100.0 |



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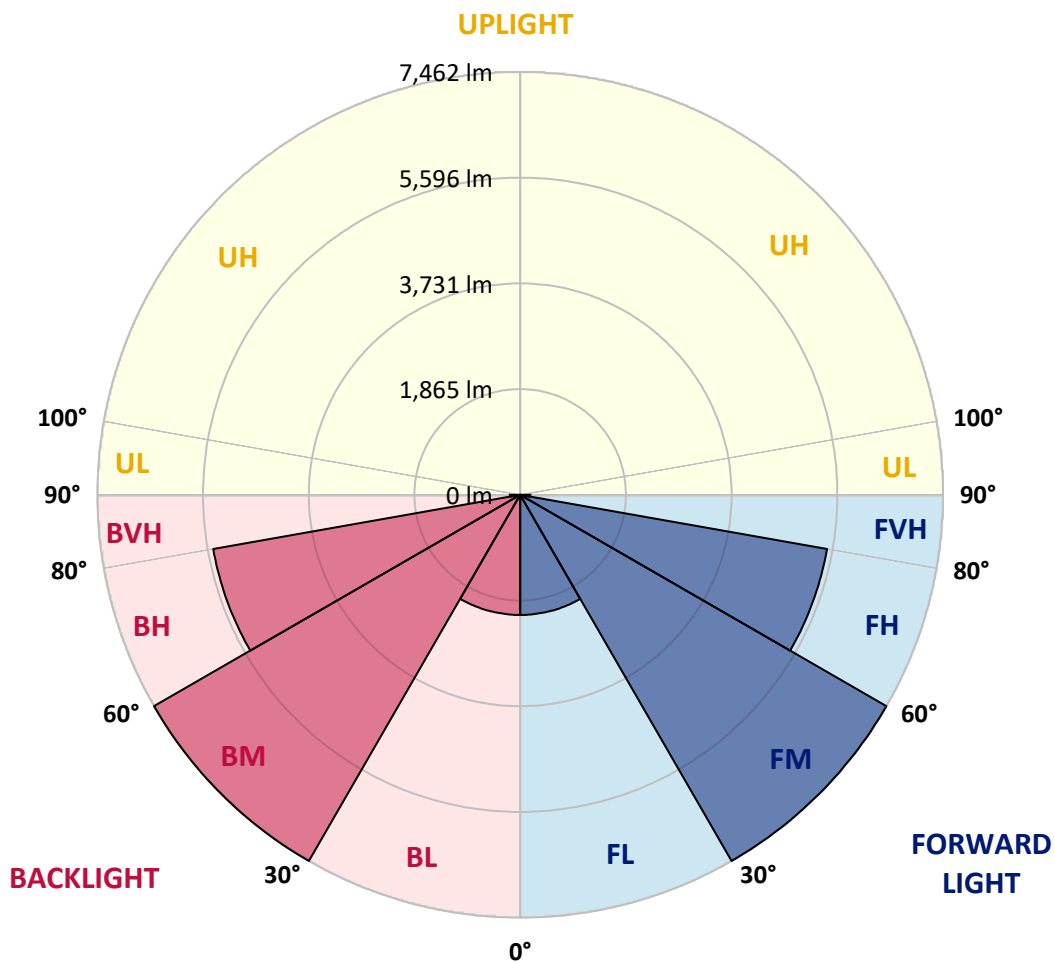
CATALOG NUMBER: VERD-M-CA4-200-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2119.9 | 6.9 | | | |
| FM (30°-60°) | 7461.5 | 24.4 | | | |
| FH (60°-80°) | 5499.4 | 18.0 | | | G3/7500 |
| FVH (80°-90°) | 180.2 | 0.6 | | | G2/225 |
| BL (0°-30°) | 2119.9 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 7461.5 | 24.4 | B4/8500 | | |
| BH (60°-80°) | 5499.4 | 18.0 | B5 | | G5 |
| BVH (80°-90°) | 180.2 | 0.6 | | | G2/225 |
| 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° | 5021.6 | 5021.6 | 5021.6 | 5021.6 | 5021.6 | 5021.6 | 5021.6 | 5021.6 | 5021.6 | 5021.6 | 5021.6 |
| 2.5° | 4980.0 | 5020.3 | 5026.8 | 5009.9 | 5011.2 | 5008.6 | 5019.0 | 5022.9 | 5028.1 | 5020.3 | 5016.4 |
| 5° | 4972.2 | 5007.3 | 5013.8 | 5006.0 | 5016.4 | 5013.8 | 5019.0 | 5028.1 | 5026.8 | 5024.2 | 5024.2 |
| 7.5° | 4930.6 | 4956.6 | 4977.4 | 4972.2 | 4974.8 | 4991.7 | 5009.9 | 5039.8 | 5054.1 | 5054.1 | 5051.5 |
| 10° | 4876.0 | 4903.3 | 4938.4 | 4930.6 | 4947.5 | 4982.6 | 5019.0 | 5050.2 | 5086.6 | 5094.3 | 5094.3 |
| 12.5° | 4817.5 | 4855.2 | 4889.0 | 4896.8 | 4935.8 | 4976.1 | 5042.4 | 5090.5 | 5132.0 | 5150.2 | 5148.9 |
| 15° | 4739.5 | 4772.0 | 4812.3 | 4840.9 | 4903.3 | 4990.4 | 5077.5 | 5151.5 | 5211.3 | 5236.0 | 5239.9 |
| 17.5° | 4635.5 | 4670.6 | 4713.5 | 4773.3 | 4882.5 | 5007.3 | 5142.4 | 5242.5 | 5333.5 | 5359.5 | 5359.5 |
| 20° | 4499.0 | 4536.7 | 4588.7 | 4681.0 | 4829.2 | 5024.2 | 5204.8 | 5362.1 | 5480.4 | 5541.5 | 5550.6 |
| 22.5° | 4287.1 | 4328.7 | 4413.2 | 4573.1 | 4768.1 | 5021.6 | 5278.9 | 5502.5 | 5680.6 | 5759.9 | 5769.0 |
| 25° | 4051.8 | 4105.1 | 4224.7 | 4435.3 | 4692.7 | 5019.0 | 5353.0 | 5661.1 | 5899.0 | 6021.2 | 6047.2 |
| 27.5° | 3843.8 | 3894.5 | 4041.4 | 4301.4 | 4622.5 | 5024.2 | 5427.1 | 5843.1 | 6186.3 | 6361.8 | 6383.9 |
| 30° | 3639.7 | 3685.2 | 3849.0 | 4158.4 | 4557.5 | 5030.7 | 5522.0 | 6052.4 | 6512.6 | 6780.3 | 6833.6 |
| 32.5° | 3472.1 | 3517.6 | 3676.1 | 4006.3 | 4478.2 | 5045.0 | 5642.9 | 6331.9 | 6966.2 | 7366.6 | 7400.4 |
| 35° | 3325.2 | 3377.2 | 3516.3 | 3852.9 | 4372.9 | 5065.8 | 5795.0 | 6698.4 | 7616.2 | 8354.5 | 8393.5 |
| 37.5° | 3197.8 | 3239.4 | 3362.9 | 3690.4 | 4262.4 | 5069.7 | 5971.8 | 7128.7 | 8455.9 | 9546.5 | 9813.0 |
| 40° | 3113.3 | 3141.9 | 3236.8 | 3541.0 | 4116.8 | 5037.2 | 6174.6 | 7609.7 | 9391.9 | 10930.9 | 11235.1 |
| 42.5° | 3036.6 | 3062.6 | 3138.0 | 3403.2 | 3964.7 | 4974.8 | 6363.1 | 8103.6 | 10329.1 | 12345.3 | 12632.5 |
| 45° | 2944.3 | 2965.1 | 3041.8 | 3286.2 | 3816.5 | 4878.6 | 6519.1 | 8561.2 | 11298.8 | 13766.1 | 14036.4 |
| 47.5° | 2868.9 | 2884.5 | 2949.5 | 3180.9 | 3651.4 | 4723.9 | 6585.3 | 8975.9 | 12338.8 | 15080.3 | 15415.6 |
| 50° | 2816.9 | 2811.7 | 2868.9 | 3071.7 | 3482.5 | 4508.1 | 6529.5 | 9282.7 | 13434.6 | 16395.8 | 16757.1 |
| 52.5° | 2727.2 | 2732.4 | 2787.0 | 2958.6 | 3342.1 | 4241.6 | 6311.1 | 9498.4 | 14536.9 | 17596.9 | 18024.6 |
| 55° | 2634.9 | 2642.7 | 2685.6 | 2840.3 | 3193.9 | 3988.1 | 5906.8 | 9528.3 | 15689.9 | 18852.6 | 19143.8 |
| 57.5° | 2536.1 | 2540.0 | 2576.4 | 2712.9 | 3028.8 | 3725.5 | 5397.2 | 9338.6 | 16759.7 | 20004.3 | 20279.9 |
| 60° | 2449.0 | 2450.3 | 2475.0 | 2580.3 | 2845.5 | 3442.2 | 4804.5 | 8957.7 | 17621.6 | 20888.3 | 21336.7 |
| 62.5° | 2332.0 | 2332.0 | 2347.6 | 2436.0 | 2658.3 | 3149.7 | 4235.1 | 8367.5 | 18092.2 | 21533.0 | 21859.3 |
| 65° | 2164.4 | 2167.0 | 2182.5 | 2239.7 | 2412.6 | 2831.2 | 3700.8 | 7587.6 | 18063.6 | 21848.9 | 22176.5 |
| 67.5° | 1843.3 | 1836.8 | 1930.4 | 2024.0 | 2159.2 | 2508.8 | 3177.0 | 6821.9 | 17408.4 | 21713.7 | 22020.5 |
| 70° | 1335.0 | 1325.9 | 1380.5 | 1513.1 | 1839.4 | 2095.5 | 2699.9 | 6182.4 | 15526.1 | 21208.0 | 21462.8 |
| 72.5° | 1095.8 | 1101.0 | 1103.6 | 1086.7 | 1231.0 | 1696.4 | 2255.3 | 5437.5 | 12810.6 | 19657.2 | 20450.2 |
| 75° | 867.0 | 854.0 | 868.3 | 881.3 | 920.3 | 994.4 | 1825.1 | 4527.6 | 10396.7 | 16482.9 | 17820.5 |
| 77.5° | 547.3 | 539.5 | 538.2 | 546.0 | 596.7 | 630.5 | 1117.9 | 3318.7 | 7234.0 | 10426.6 | 10515.0 |
| 80° | 380.9 | 379.6 | 380.9 | 391.3 | 408.2 | 416.0 | 620.1 | 1818.6 | 3642.3 | 3797.0 | 3729.4 |
| 82.5° | 270.4 | 261.3 | 253.5 | 273.0 | 263.9 | 256.1 | 373.1 | 833.2 | 982.7 | 669.5 | 543.4 |
| 85° | 133.9 | 136.5 | 115.7 | 146.9 | 137.8 | 133.9 | 145.6 | 158.6 | 146.9 | 274.3 | 310.7 |
| 87.5° | 37.7 | 36.4 | 40.3 | 46.8 | 45.5 | 52.0 | 46.8 | 50.7 | 59.8 | 104.0 | 102.7 |
| 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)