

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: P510074

Luminaire Tested: **VERD-M-CA4-200-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-727-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25083 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

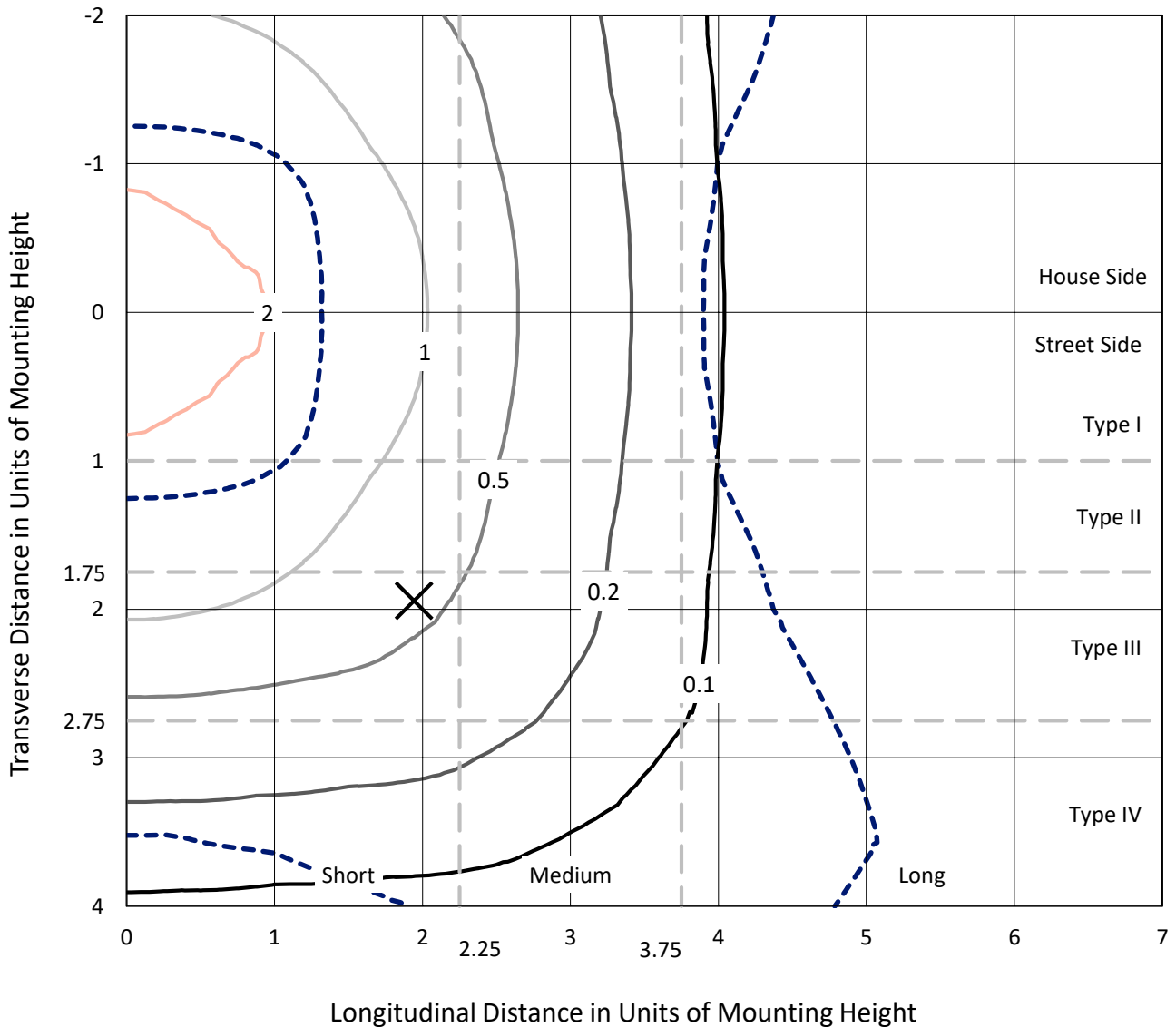
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

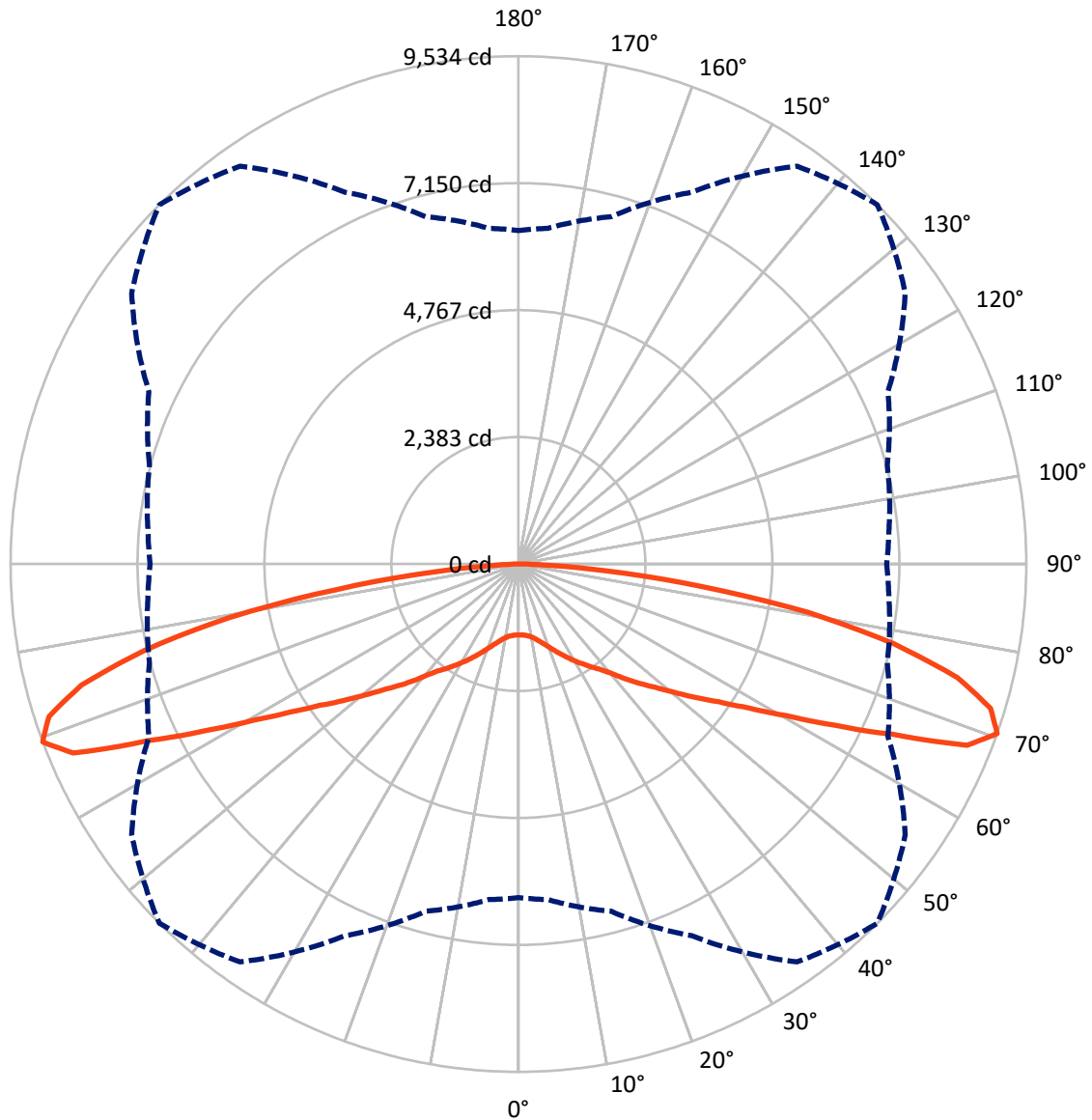
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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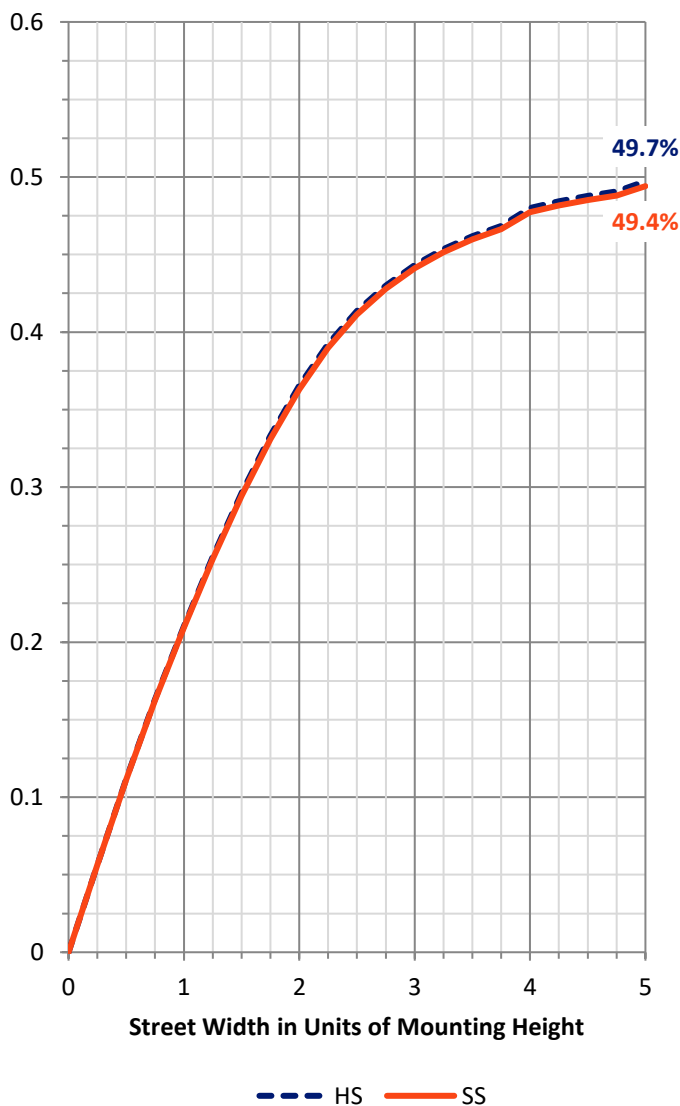
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12541.5 | 0.0 | 12541.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12541.5 | 0.0 | 12541.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25083.0 | 0.0 | 25083.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 130.5 | 0.5 |
| 10°-20° | 431.9 | 1.7 |
| 20°-30° | 863.7 | 3.4 |
| 30°-40° | 1502.8 | 6.0 |
| 40°-50° | 2614.5 | 10.4 |
| 50°-60° | 4552.1 | 18.1 |
| 60°-70° | 7372.6 | 29.4 |
| 70°-80° | 6324.9 | 25.2 |
| 80°-90° | 1290.1 | 5.1 |
| 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° | 25083.0 | 100.0 |
| 0°-180° | 25083.0 | 100.0 |

Coefficient of Utilization



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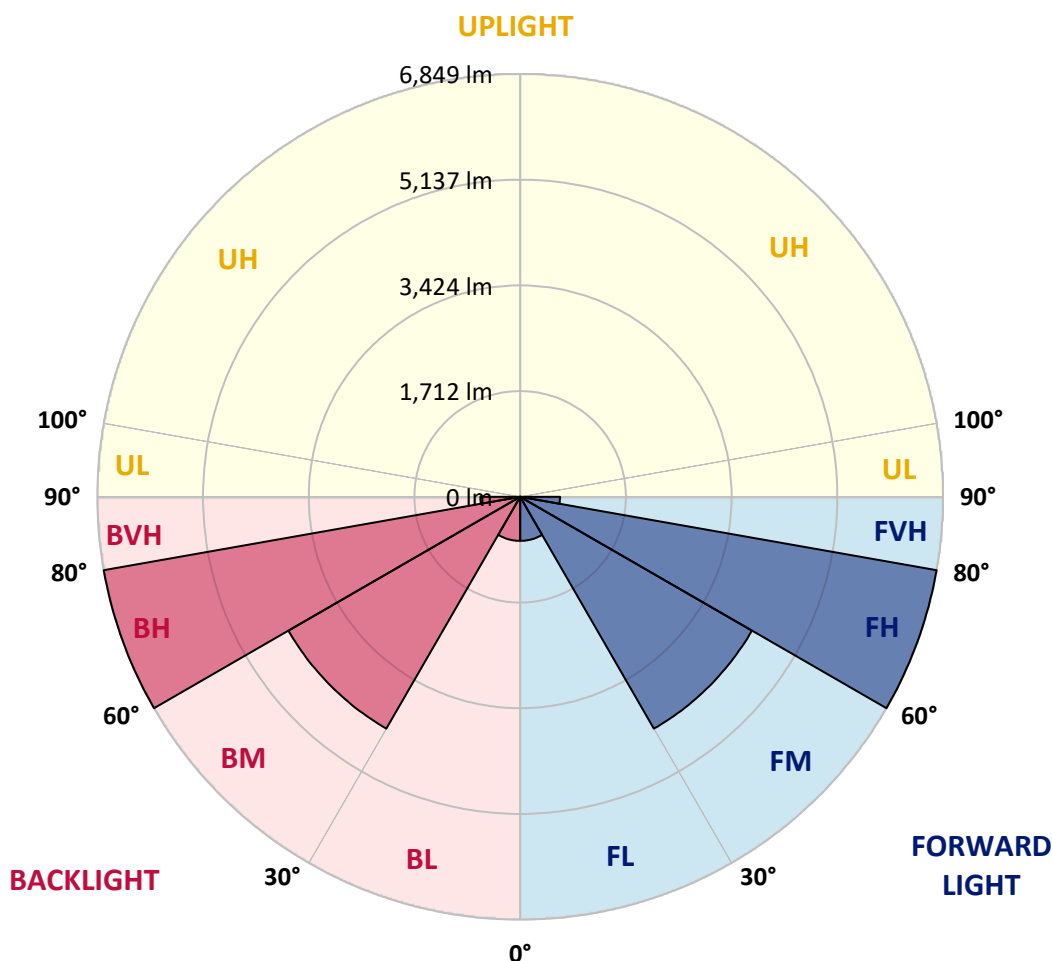
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 713.0 | 2.8 | | | |
| FM | (30°-60°) | 4334.7 | 17.3 | | | |
| FH | (60°-80°) | 6848.7 | 27.3 | | | G3/7500 |
| FVH | (80°-90°) | 645.1 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 713.0 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 4334.7 | 17.3 | B3/5000 | | |
| BH | (60°-80°) | 6848.7 | 27.3 | B5 | | G3/7500 |
| BVH | (80°-90°) | 645.1 | 2.6 | | | G4/750 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1334.1 | 1334.1 | 1334.1 | 1334.1 | 1334.1 | 1334.1 | 1334.1 | 1334.1 | 1334.1 | 1334.1 | 1334.1 |
| 2.5° | 1329.7 | 1337.4 | 1336.3 | 1334.1 | 1330.8 | 1330.8 | 1333.0 | 1340.7 | 1341.8 | 1341.8 | 1341.8 |
| 5° | 1345.1 | 1352.8 | 1351.7 | 1349.5 | 1346.2 | 1345.1 | 1347.3 | 1355.0 | 1356.1 | 1356.1 | 1357.2 |
| 7.5° | 1362.7 | 1371.5 | 1371.5 | 1370.4 | 1362.7 | 1362.7 | 1364.9 | 1374.8 | 1374.8 | 1377.0 | 1379.3 |
| 10° | 1392.5 | 1402.4 | 1405.7 | 1401.3 | 1396.9 | 1394.7 | 1396.9 | 1406.8 | 1405.7 | 1403.5 | 1404.6 |
| 12.5° | 1433.2 | 1443.1 | 1450.8 | 1449.7 | 1445.3 | 1443.1 | 1445.3 | 1450.8 | 1444.2 | 1435.4 | 1435.4 |
| 15° | 1483.8 | 1497.0 | 1505.8 | 1505.8 | 1511.3 | 1508.0 | 1504.7 | 1505.8 | 1495.9 | 1488.2 | 1488.2 |
| 17.5° | 1548.8 | 1559.8 | 1567.5 | 1574.1 | 1582.9 | 1582.9 | 1575.2 | 1573.0 | 1559.8 | 1553.2 | 1554.3 |
| 20° | 1628.0 | 1636.8 | 1647.8 | 1653.3 | 1671.0 | 1672.1 | 1658.8 | 1653.3 | 1640.1 | 1631.3 | 1633.5 |
| 22.5° | 1713.9 | 1729.3 | 1733.7 | 1750.2 | 1771.1 | 1772.2 | 1754.6 | 1742.5 | 1729.3 | 1722.7 | 1723.8 |
| 25° | 1817.4 | 1832.8 | 1829.5 | 1843.8 | 1875.7 | 1879.0 | 1859.2 | 1841.6 | 1830.6 | 1824.0 | 1826.2 |
| 27.5° | 1930.7 | 1946.1 | 1945.0 | 1945.0 | 1982.5 | 1996.8 | 1969.3 | 1950.5 | 1952.7 | 1940.6 | 1945.0 |
| 30° | 2051.8 | 2065.0 | 2072.7 | 2059.5 | 2095.8 | 2119.0 | 2074.9 | 2077.1 | 2076.0 | 2068.3 | 2067.2 |
| 32.5° | 2193.8 | 2205.9 | 2204.8 | 2196.0 | 2207.0 | 2240.0 | 2204.8 | 2215.8 | 2219.1 | 2220.2 | 2229.0 |
| 35° | 2355.6 | 2369.9 | 2354.5 | 2342.4 | 2343.5 | 2375.4 | 2349.0 | 2366.6 | 2384.2 | 2390.8 | 2390.8 |
| 37.5° | 2528.4 | 2536.1 | 2519.6 | 2500.9 | 2496.5 | 2514.1 | 2509.7 | 2538.3 | 2568.1 | 2584.6 | 2593.4 |
| 40° | 2751.9 | 2758.5 | 2726.6 | 2690.3 | 2683.6 | 2703.5 | 2709.0 | 2771.7 | 2816.8 | 2847.7 | 2853.2 |
| 42.5° | 3062.3 | 3061.2 | 3016.1 | 2948.9 | 2917.0 | 2947.8 | 2987.5 | 3060.1 | 3136.1 | 3142.7 | 3165.8 |
| 45° | 3461.9 | 3446.5 | 3388.1 | 3288.0 | 3207.6 | 3196.6 | 3243.9 | 3351.8 | 3436.6 | 3472.9 | 3487.2 |
| 47.5° | 3917.6 | 3900.0 | 3794.3 | 3639.1 | 3501.5 | 3458.6 | 3498.2 | 3633.6 | 3760.2 | 3813.0 | 3841.6 |
| 50° | 4426.1 | 4405.2 | 4298.5 | 4088.2 | 3859.3 | 3781.1 | 3805.3 | 3973.7 | 4121.2 | 4188.4 | 4239.0 |
| 52.5° | 4973.2 | 4969.9 | 4833.4 | 4591.3 | 4285.3 | 4158.7 | 4151.0 | 4353.5 | 4551.6 | 4640.8 | 4668.3 |
| 55° | 5559.9 | 5543.4 | 5421.2 | 5158.2 | 4803.7 | 4567.0 | 4568.1 | 4792.7 | 5034.9 | 5151.5 | 5164.8 |
| 57.5° | 6135.6 | 6129.0 | 5993.6 | 5769.1 | 5406.9 | 5095.4 | 5064.6 | 5362.9 | 5607.3 | 5703.0 | 5707.4 |
| 60° | 6679.4 | 6700.3 | 6629.9 | 6424.0 | 6132.3 | 5780.1 | 5735.0 | 5987.0 | 6195.1 | 6277.6 | 6307.3 |
| 62.5° | 7284.8 | 7291.4 | 7282.6 | 7130.7 | 6908.4 | 6670.6 | 6559.4 | 6688.2 | 6894.0 | 6962.3 | 6948.0 |
| 65° | 7717.4 | 7760.3 | 7860.5 | 7938.7 | 7891.3 | 7709.7 | 7563.3 | 7569.9 | 7610.6 | 7566.6 | 7563.3 |
| 67.5° | 7165.9 | 7259.5 | 7600.7 | 8150.0 | 8797.3 | 9080.2 | 8485.7 | 7822.0 | 7575.4 | 7415.8 | 7414.7 |
| 70° | 6261.1 | 6323.9 | 6749.8 | 7699.8 | 9117.6 | 9533.7 | 8863.3 | 7652.5 | 7169.2 | 6979.9 | 6912.8 |
| 72.5° | 5326.6 | 5376.1 | 5845.0 | 6814.8 | 8609.0 | 9266.2 | 8622.2 | 7154.9 | 6518.7 | 6101.5 | 6109.2 |
| 75° | 4436.1 | 4428.4 | 4782.8 | 5779.0 | 7620.5 | 8510.0 | 7983.8 | 6367.9 | 5462.0 | 5082.2 | 5039.3 |
| 77.5° | 3075.5 | 3146.0 | 3548.8 | 4567.0 | 6178.6 | 7201.2 | 7124.1 | 5241.8 | 4186.2 | 3781.1 | 3807.5 |
| 80° | 1611.5 | 1655.5 | 2133.3 | 3100.8 | 4520.8 | 5523.6 | 5422.3 | 3707.4 | 2704.6 | 2256.6 | 2171.8 |
| 82.5° | 671.5 | 700.1 | 975.3 | 1675.4 | 2762.9 | 3437.7 | 3391.4 | 2259.9 | 1508.0 | 1050.1 | 1047.9 |
| 85° | 285.1 | 286.2 | 413.9 | 717.7 | 1394.7 | 1633.5 | 1311.0 | 970.9 | 528.4 | 331.3 | 296.1 |
| 87.5° | 121.1 | 125.5 | 168.4 | 329.1 | 441.4 | 356.6 | 210.2 | 129.9 | 87.0 | 52.8 | 40.7 |
| 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)