

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: P509570

Luminaire Tested: **VERD-G-CA2-120-750-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-750-U-T5
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18576 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

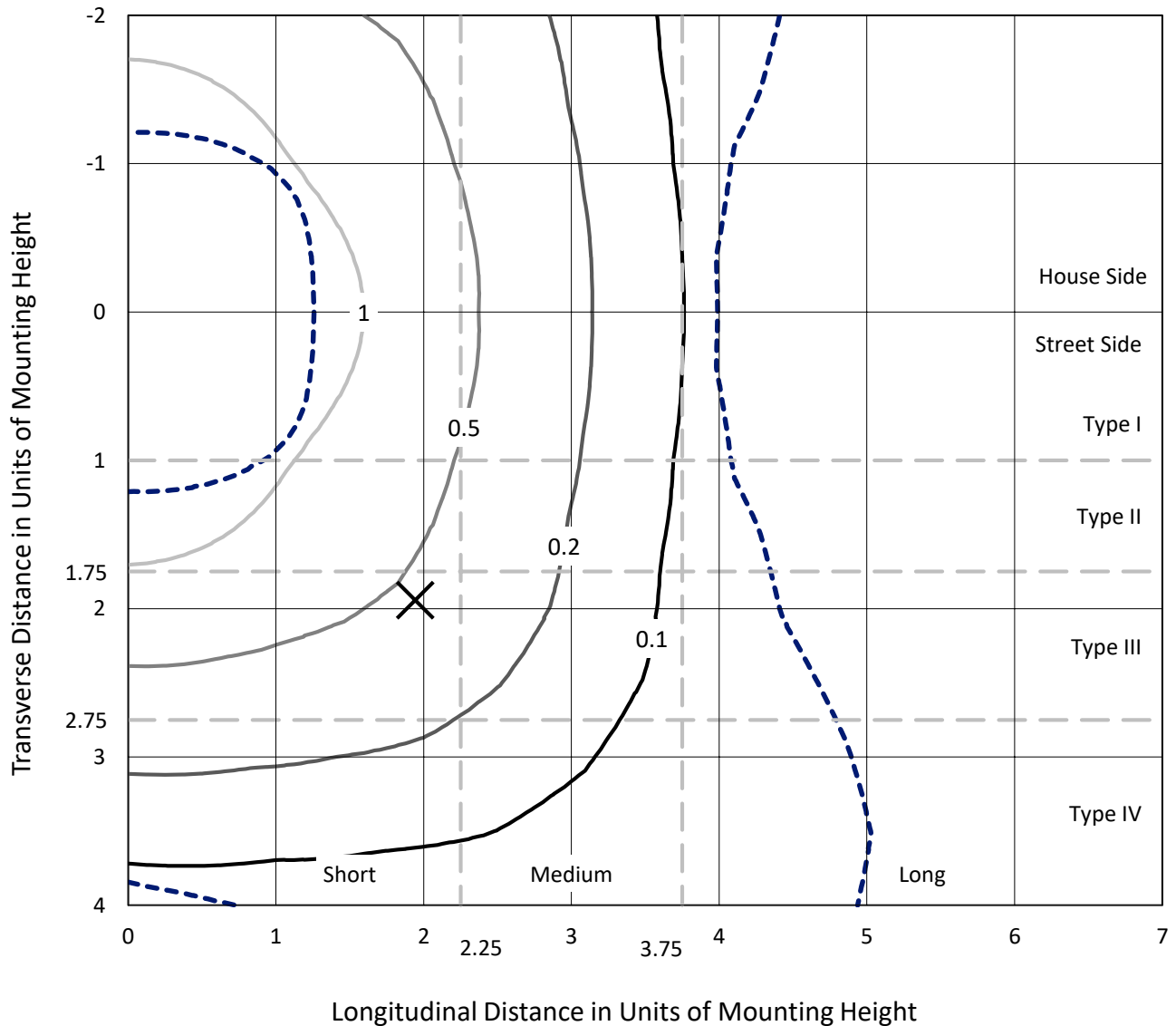
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

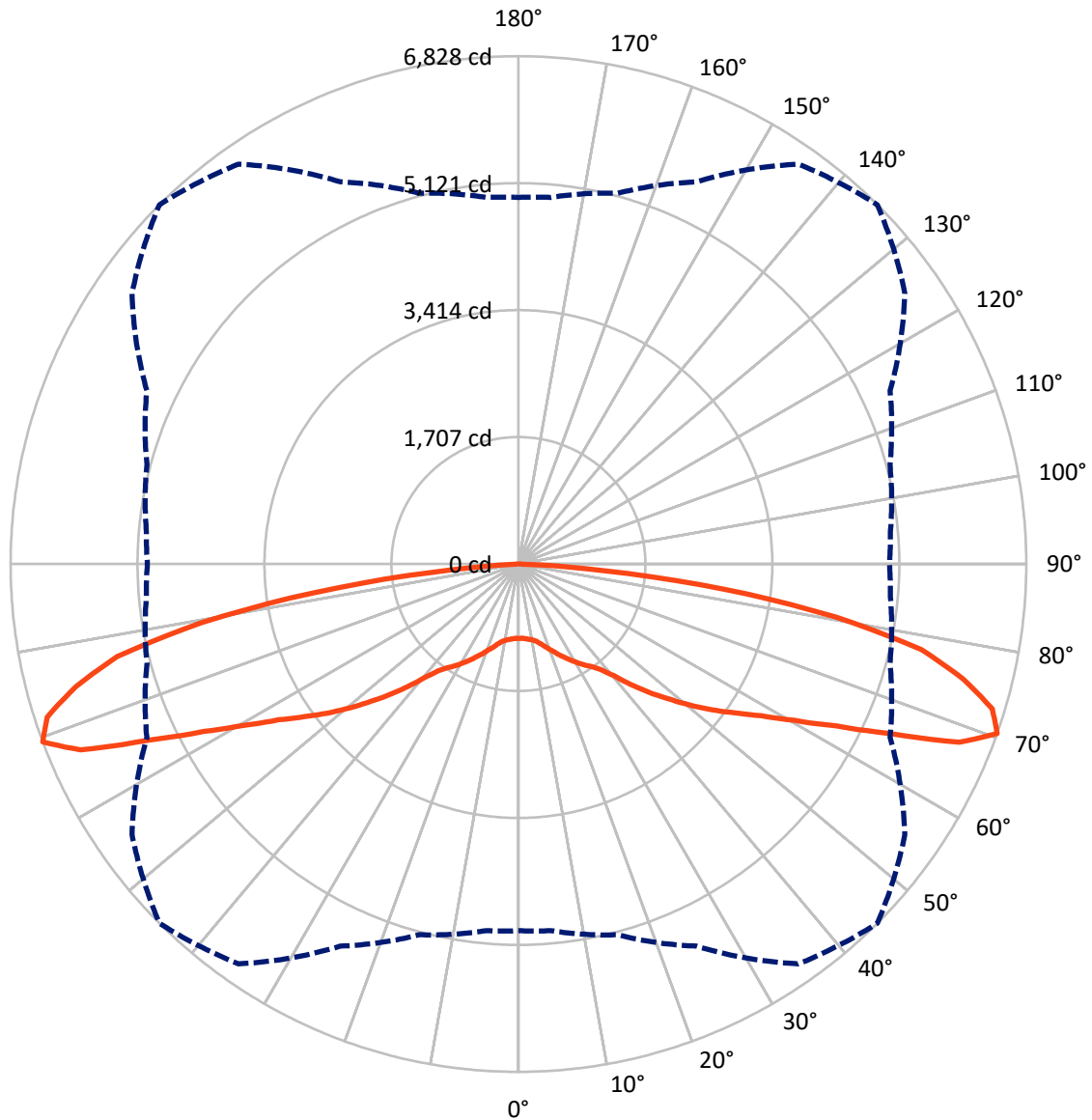
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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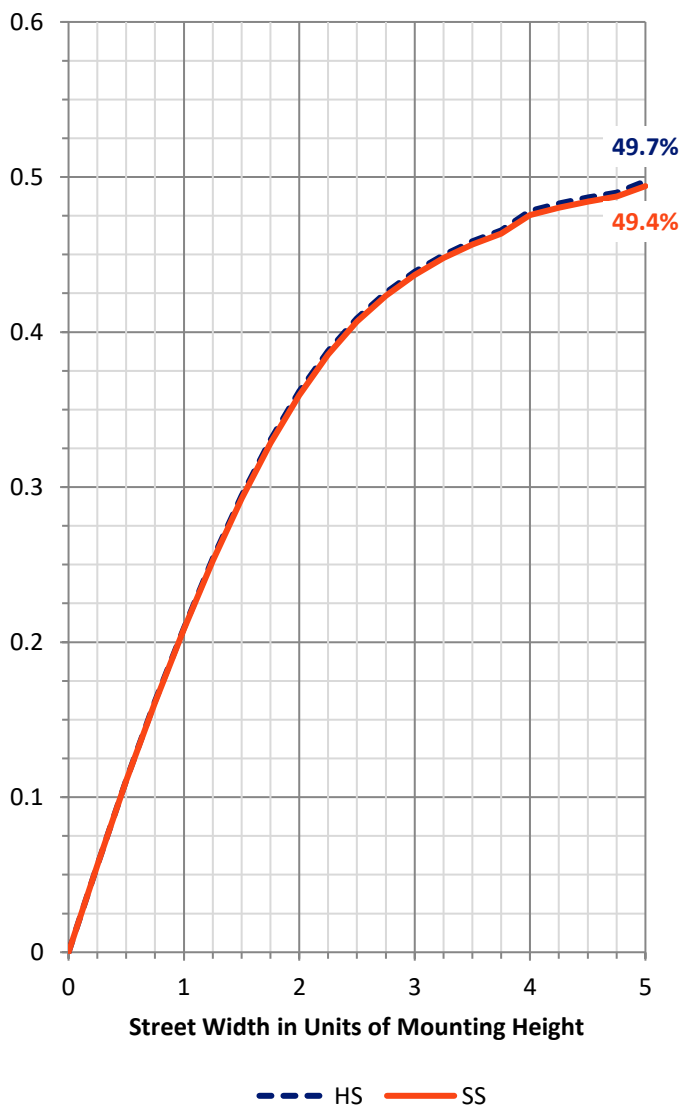
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9288.0 | 0.0 | 9288.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9288.0 | 0.0 | 9288.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18576.0 | 0.0 | 18576.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 97.5 | 0.5 |
| 10°-20° | 319.1 | 1.7 |
| 20°-30° | 627.9 | 3.4 |
| 30°-40° | 1075.3 | 5.8 |
| 40°-50° | 2006.1 | 10.8 |
| 50°-60° | 3387.3 | 18.2 |
| 60°-70° | 5312.3 | 28.6 |
| 70°-80° | 4795.5 | 25.8 |
| 80°-90° | 955.0 | 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° | 18576.0 | 100.0 |
| 0°-180° | 18576.0 | 100.0 |

Coefficient of Utilization



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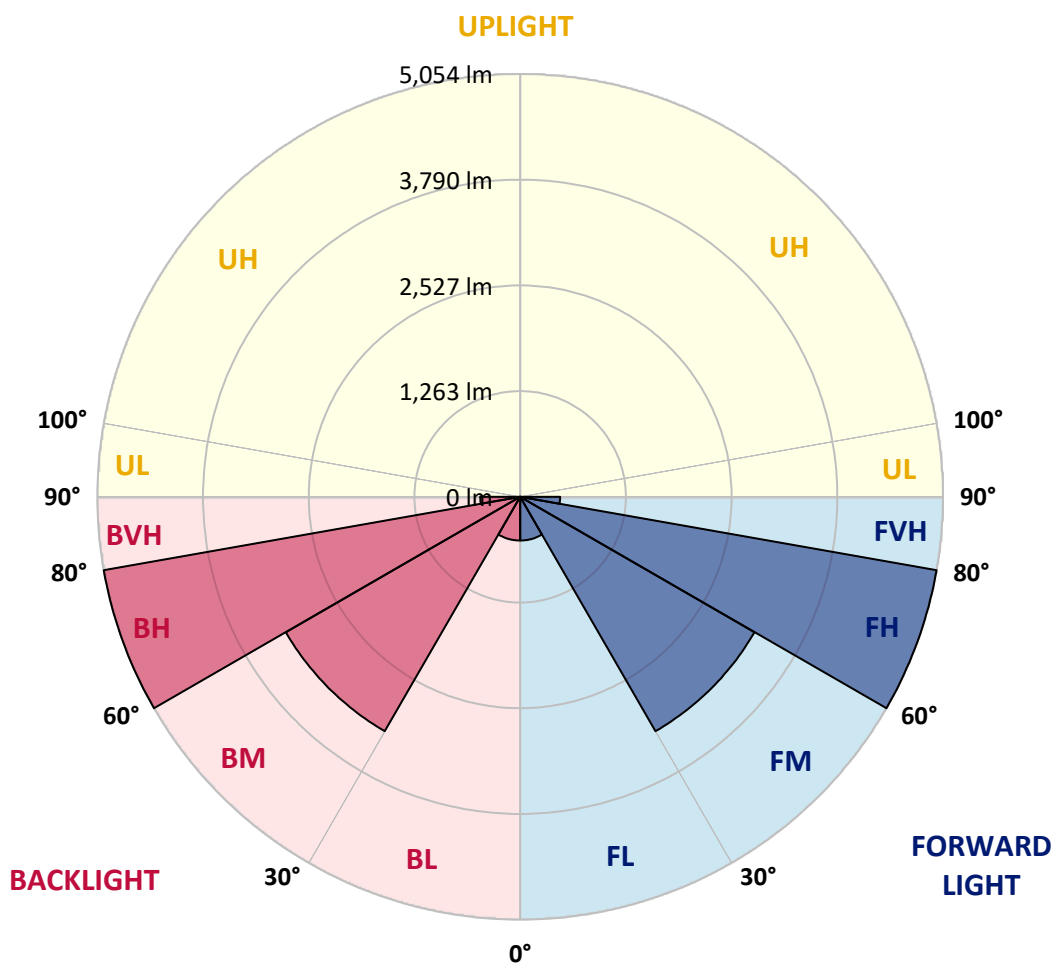
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 522.3 | 2.8 | | | |
| FM | (30°-60°) | 3234.3 | 17.4 | | | |
| FH | (60°-80°) | 5053.9 | 27.2 | | | G3/7500 |
| FVH | (80°-90°) | 477.5 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 522.3 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 3234.3 | 17.4 | B3/5000 | | |
| BH | (60°-80°) | 5053.9 | 27.2 | B5 | | G3/7500 |
| BVH | (80°-90°) | 477.5 | 2.6 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1000.5 | 1000.5 | 1000.5 | 1000.5 | 1000.5 | 1000.5 | 1000.5 | 1000.5 | 1000.5 | 1000.5 | 1000.5 |
| 2.5° | 1017.2 | 1017.2 | 1006.4 | 1000.5 | 1001.6 | 998.1 | 998.1 | 996.9 | 1000.5 | 1000.5 | 996.9 |
| 5° | 1023.1 | 1027.9 | 1017.2 | 1008.8 | 1011.2 | 1008.8 | 1007.6 | 1008.8 | 1014.8 | 1017.2 | 1012.4 |
| 7.5° | 1035.1 | 1039.8 | 1026.7 | 1017.2 | 1020.7 | 1021.9 | 1017.2 | 1020.7 | 1024.3 | 1026.7 | 1020.7 |
| 10° | 1054.2 | 1055.4 | 1047.0 | 1033.9 | 1039.8 | 1037.5 | 1036.3 | 1033.9 | 1035.1 | 1036.3 | 1035.1 |
| 12.5° | 1081.6 | 1076.9 | 1067.3 | 1063.7 | 1069.7 | 1064.9 | 1059.0 | 1057.8 | 1062.5 | 1059.0 | 1062.5 |
| 15° | 1116.3 | 1112.7 | 1111.5 | 1107.9 | 1117.5 | 1111.5 | 1109.1 | 1105.5 | 1109.1 | 1101.9 | 1106.7 |
| 17.5° | 1154.5 | 1159.2 | 1160.4 | 1164.0 | 1172.4 | 1171.2 | 1162.8 | 1160.4 | 1161.6 | 1154.5 | 1154.5 |
| 20° | 1210.6 | 1213.0 | 1216.5 | 1217.7 | 1232.1 | 1229.7 | 1220.1 | 1211.8 | 1214.2 | 1202.2 | 1198.6 |
| 22.5° | 1273.8 | 1273.8 | 1272.7 | 1282.2 | 1301.3 | 1301.3 | 1281.0 | 1271.5 | 1275.0 | 1266.7 | 1259.5 |
| 25° | 1335.9 | 1335.9 | 1331.2 | 1344.3 | 1374.1 | 1372.9 | 1352.6 | 1334.7 | 1340.7 | 1335.9 | 1334.7 |
| 27.5° | 1400.4 | 1400.4 | 1393.2 | 1398.0 | 1449.3 | 1452.9 | 1424.3 | 1407.6 | 1406.4 | 1411.1 | 1411.1 |
| 30° | 1470.8 | 1467.3 | 1461.3 | 1455.3 | 1513.8 | 1531.7 | 1492.3 | 1479.2 | 1480.4 | 1487.5 | 1489.9 |
| 32.5° | 1550.8 | 1554.4 | 1544.9 | 1534.1 | 1579.5 | 1615.3 | 1560.4 | 1566.3 | 1569.9 | 1580.7 | 1589.0 |
| 35° | 1666.6 | 1666.6 | 1645.1 | 1632.0 | 1659.5 | 1691.7 | 1663.0 | 1676.2 | 1697.7 | 1713.2 | 1720.3 |
| 37.5° | 1796.8 | 1802.7 | 1772.9 | 1744.2 | 1774.1 | 1799.1 | 1797.9 | 1831.4 | 1874.4 | 1926.9 | 1916.1 |
| 40° | 2015.2 | 2016.4 | 1965.1 | 1920.9 | 1930.5 | 1973.4 | 2005.7 | 2067.8 | 2129.8 | 2190.7 | 2187.1 |
| 42.5° | 2313.7 | 2295.8 | 2254.0 | 2197.9 | 2190.7 | 2211.0 | 2282.7 | 2347.1 | 2429.5 | 2473.7 | 2483.2 |
| 45° | 2630.1 | 2626.5 | 2569.2 | 2479.6 | 2457.0 | 2458.2 | 2519.0 | 2611.0 | 2702.9 | 2749.5 | 2756.6 |
| 47.5° | 2972.7 | 2971.5 | 2883.2 | 2793.6 | 2728.0 | 2704.1 | 2756.6 | 2848.5 | 2945.2 | 3002.6 | 2997.8 |
| 50° | 3334.4 | 3320.1 | 3237.7 | 3120.7 | 3032.4 | 2976.3 | 3004.9 | 3102.8 | 3186.4 | 3242.5 | 3242.5 |
| 52.5° | 3698.6 | 3683.1 | 3604.3 | 3468.2 | 3330.9 | 3254.5 | 3241.3 | 3332.1 | 3433.5 | 3494.4 | 3493.2 |
| 55° | 4103.3 | 4072.2 | 3979.1 | 3833.5 | 3674.7 | 3532.6 | 3500.4 | 3572.0 | 3697.4 | 3770.2 | 3794.1 |
| 57.5° | 4490.1 | 4469.8 | 4382.7 | 4221.5 | 4042.4 | 3845.4 | 3789.3 | 3877.6 | 4005.4 | 4085.4 | 4106.9 |
| 60° | 4881.7 | 4851.8 | 4776.6 | 4657.2 | 4463.8 | 4266.8 | 4177.3 | 4229.8 | 4370.7 | 4460.3 | 4443.5 |
| 62.5° | 5312.7 | 5301.9 | 5238.6 | 5127.6 | 5010.6 | 4792.1 | 4653.7 | 4707.4 | 4855.4 | 4928.2 | 4900.8 |
| 65° | 5644.6 | 5660.1 | 5679.2 | 5692.3 | 5660.1 | 5492.9 | 5336.5 | 5399.8 | 5458.3 | 5465.5 | 5423.7 |
| 67.5° | 5387.9 | 5457.1 | 5600.4 | 5908.4 | 6267.8 | 6394.3 | 6085.1 | 5663.7 | 5440.4 | 5386.7 | 5322.2 |
| 70° | 4929.4 | 4947.3 | 5159.9 | 5668.4 | 6562.6 | 6827.7 | 6341.8 | 5512.0 | 5170.6 | 5020.2 | 4987.9 |
| 72.5° | 4293.1 | 4389.8 | 4645.3 | 5327.0 | 6351.3 | 6661.7 | 6197.3 | 5183.7 | 4674.0 | 4477.0 | 4437.6 |
| 75° | 3548.1 | 3675.9 | 3972.0 | 4753.9 | 5833.2 | 6174.6 | 5753.2 | 4583.2 | 3940.9 | 3738.0 | 3727.2 |
| 77.5° | 2631.3 | 2685.0 | 3110.0 | 3913.5 | 5176.6 | 5537.1 | 5073.9 | 3786.9 | 3147.0 | 2823.5 | 2835.4 |
| 80° | 1458.9 | 1522.2 | 1936.4 | 2696.9 | 3938.5 | 4328.9 | 3860.9 | 2728.0 | 2089.3 | 1832.6 | 1813.5 |
| 82.5° | 642.3 | 691.2 | 974.2 | 1522.2 | 2446.2 | 2785.3 | 2312.5 | 1441.0 | 970.6 | 734.2 | 706.8 |
| 85° | 192.2 | 212.5 | 335.5 | 610.1 | 1167.6 | 1153.3 | 737.8 | 330.7 | 132.5 | 72.8 | 69.2 |
| 87.5° | 45.4 | 50.1 | 90.7 | 139.7 | 149.2 | 56.1 | 26.3 | 22.7 | 22.7 | 22.7 | 22.7 |
| 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)