

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: P509218

Luminaire Tested: **VERD-CA2-130-730-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-730-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1180mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18486 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

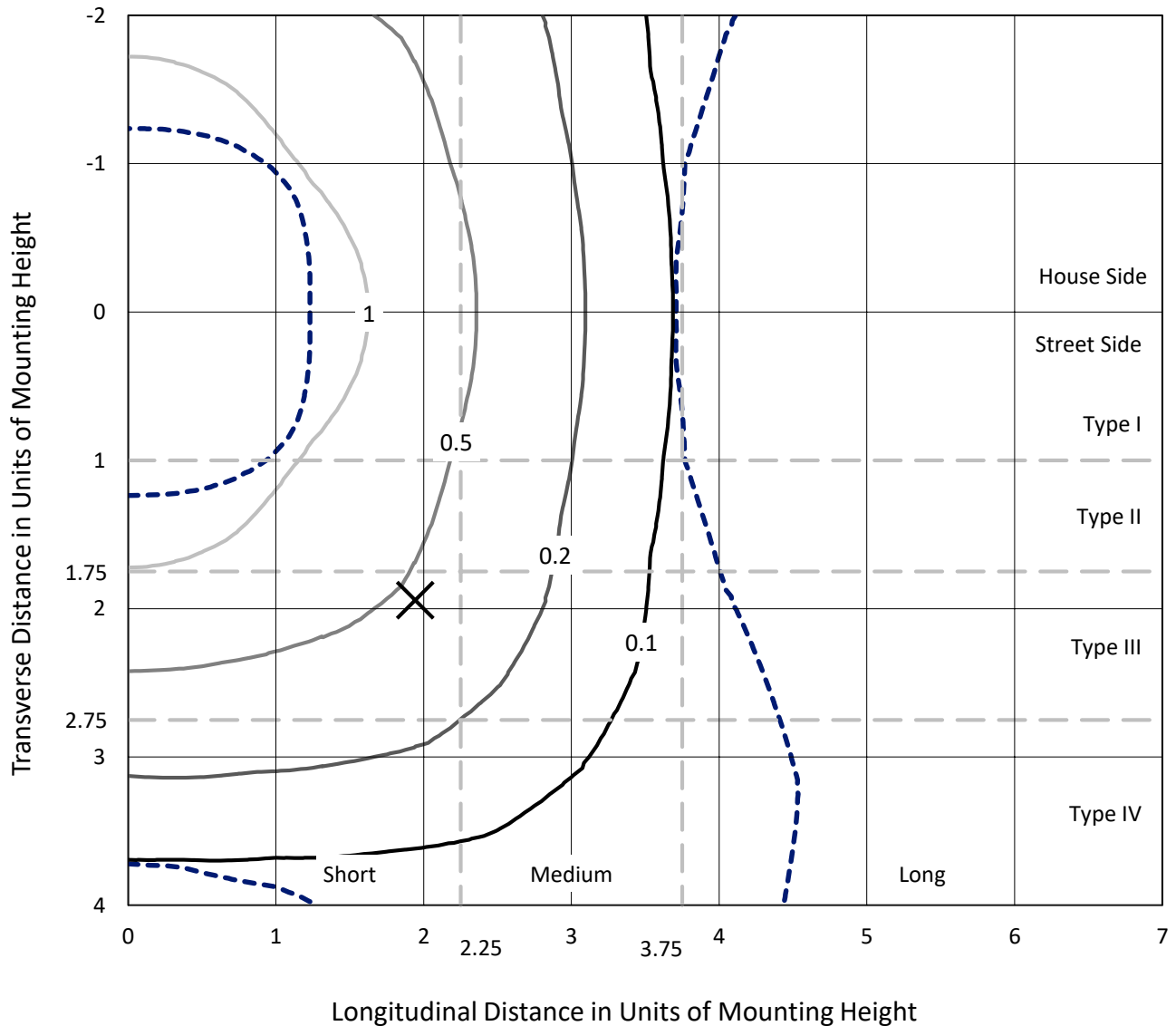
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

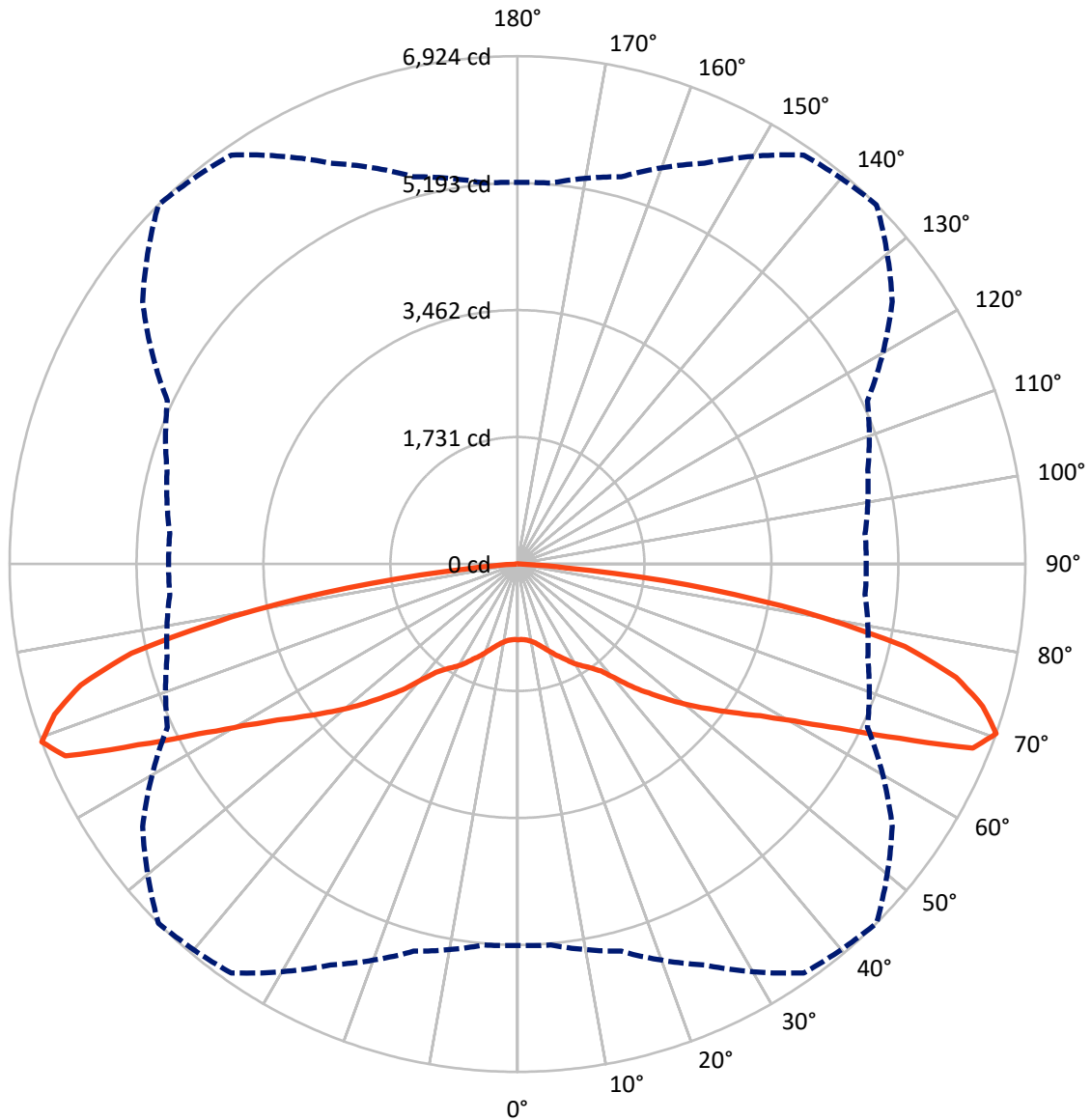
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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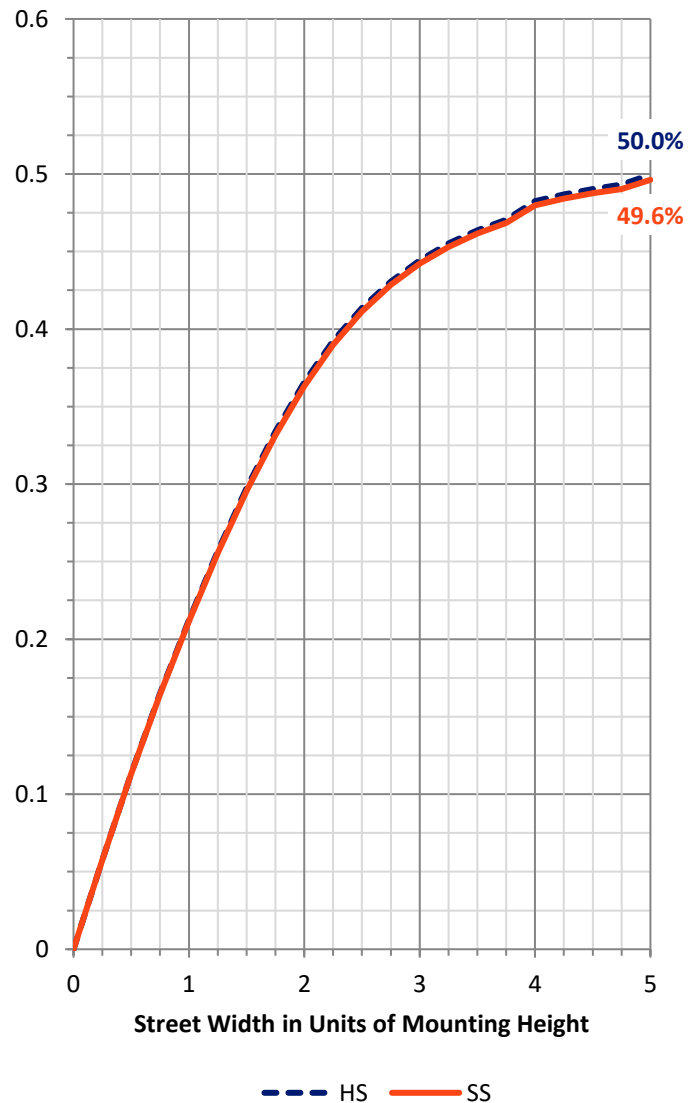
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9243.0 | 0.0 | 9243.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9243.0 | 0.0 | 9243.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18486.0 | 0.0 | 18486.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 100.4 | 0.5 |
| 10°-20° | 330.2 | 1.8 |
| 20°-30° | 648.6 | 3.5 |
| 30°-40° | 1112.4 | 6.0 |
| 40°-50° | 2042.7 | 11.0 |
| 50°-60° | 3437.6 | 18.6 |
| 60°-70° | 5431.6 | 29.4 |
| 70°-80° | 4635.1 | 25.1 |
| 80°-90° | 747.3 | 4.0 |
| 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° | 18486.0 | 100.0 |
| 0°-180° | 18486.0 | 100.0 |



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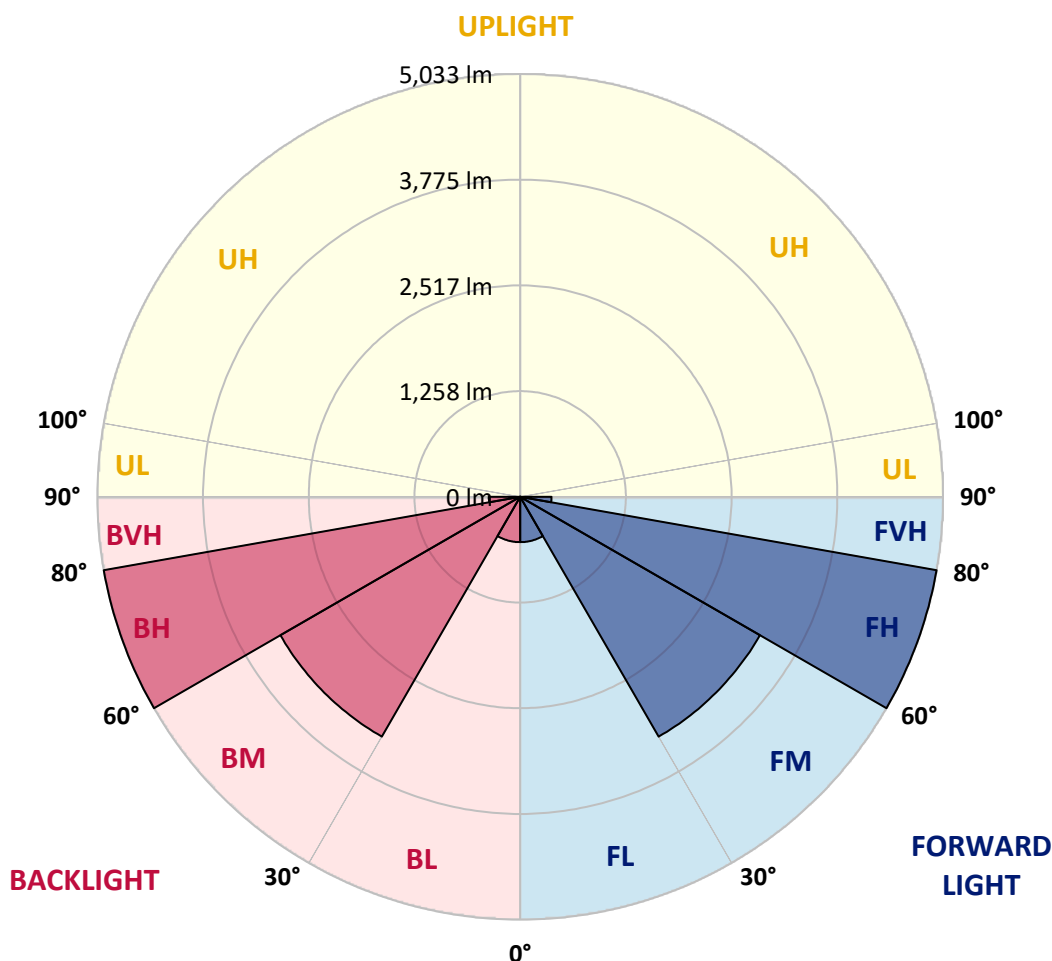
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 539.6 | 2.9 | | | |
| FM (30°-60°) | 3296.4 | 17.8 | | | |
| FH (60°-80°) | 5033.3 | 27.2 | | | G3/7500 |
| FVH (80°-90°) | 373.6 | 2.0 | | | G3/500 |
| BL (0°-30°) | 539.6 | 2.9 | B2/1000 | | |
| BM (30°-60°) | 3296.4 | 17.8 | B3/5000 | | |
| BH (60°-80°) | 5033.3 | 27.2 | B5 | | G3/7500 |
| BVH (80°-90°) | 373.6 | 2.0 | | | 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° | 1033.3 | 1033.3 | 1033.3 | 1033.3 | 1033.3 | 1033.3 | 1033.3 | 1033.3 | 1033.3 | 1033.3 | 1033.3 |
| 2.5° | 1035.3 | 1041.1 | 1035.3 | 1035.3 | 1031.4 | 1029.4 | 1029.4 | 1029.4 | 1033.3 | 1037.2 | 1037.2 |
| 5° | 1043.0 | 1046.9 | 1041.1 | 1041.1 | 1037.2 | 1037.2 | 1037.2 | 1037.2 | 1041.1 | 1045.0 | 1043.0 |
| 7.5° | 1056.6 | 1062.5 | 1056.6 | 1056.6 | 1052.7 | 1048.9 | 1048.9 | 1050.8 | 1052.7 | 1054.7 | 1052.7 |
| 10° | 1079.9 | 1087.7 | 1079.9 | 1083.8 | 1076.1 | 1074.1 | 1072.2 | 1072.2 | 1074.1 | 1074.1 | 1074.1 |
| 12.5° | 1109.1 | 1114.9 | 1111.0 | 1114.9 | 1107.1 | 1107.1 | 1101.3 | 1101.3 | 1099.4 | 1099.4 | 1099.4 |
| 15° | 1147.9 | 1155.7 | 1151.8 | 1157.6 | 1153.7 | 1153.7 | 1147.9 | 1142.1 | 1140.2 | 1140.2 | 1140.2 |
| 17.5° | 1194.5 | 1202.3 | 1200.4 | 1210.1 | 1206.2 | 1210.1 | 1198.4 | 1188.7 | 1190.7 | 1190.7 | 1188.7 |
| 20° | 1248.9 | 1256.7 | 1256.7 | 1270.3 | 1270.3 | 1274.2 | 1258.6 | 1248.9 | 1245.0 | 1247.0 | 1245.0 |
| 22.5° | 1309.1 | 1316.9 | 1315.0 | 1336.3 | 1348.0 | 1348.0 | 1326.6 | 1318.8 | 1311.1 | 1313.0 | 1309.1 |
| 25° | 1375.2 | 1384.9 | 1375.2 | 1394.6 | 1414.0 | 1416.0 | 1398.5 | 1379.1 | 1379.1 | 1388.8 | 1384.9 |
| 27.5° | 1431.5 | 1443.2 | 1437.3 | 1445.1 | 1487.8 | 1499.5 | 1472.3 | 1450.9 | 1454.8 | 1462.6 | 1456.8 |
| 30° | 1499.5 | 1509.2 | 1499.5 | 1505.3 | 1546.1 | 1584.9 | 1534.4 | 1528.6 | 1536.4 | 1544.2 | 1544.2 |
| 32.5° | 1586.9 | 1598.5 | 1581.1 | 1586.9 | 1600.5 | 1660.7 | 1616.0 | 1623.8 | 1641.3 | 1658.8 | 1658.8 |
| 35° | 1689.8 | 1701.5 | 1684.0 | 1684.0 | 1689.8 | 1740.3 | 1726.7 | 1750.0 | 1785.0 | 1821.9 | 1829.7 |
| 37.5° | 1820.0 | 1825.8 | 1806.4 | 1798.6 | 1810.3 | 1851.0 | 1870.5 | 1922.9 | 1979.2 | 2047.2 | 2058.9 |
| 40° | 1996.7 | 2004.5 | 1977.3 | 1969.5 | 1977.3 | 2035.6 | 2090.0 | 2183.2 | 2260.9 | 2332.7 | 2340.5 |
| 42.5° | 2258.9 | 2282.2 | 2255.1 | 2229.8 | 2229.8 | 2282.2 | 2358.0 | 2470.7 | 2569.7 | 2616.3 | 2628.0 |
| 45° | 2548.3 | 2569.7 | 2511.4 | 2478.4 | 2464.8 | 2507.6 | 2591.1 | 2723.2 | 2816.4 | 2892.1 | 2886.3 |
| 47.5° | 2892.1 | 2884.4 | 2830.0 | 2771.7 | 2729.0 | 2756.2 | 2833.9 | 2948.5 | 3049.5 | 3117.5 | 3119.4 |
| 50° | 3276.7 | 3274.8 | 3202.9 | 3088.3 | 3006.7 | 3018.4 | 3070.8 | 3193.2 | 3294.2 | 3358.3 | 3373.8 |
| 52.5° | 3686.6 | 3673.0 | 3577.8 | 3445.7 | 3323.3 | 3284.5 | 3305.9 | 3414.6 | 3523.4 | 3597.2 | 3597.2 |
| 55° | 4096.4 | 4078.9 | 3999.3 | 3824.5 | 3678.8 | 3573.9 | 3558.4 | 3667.1 | 3791.4 | 3880.8 | 3886.6 |
| 57.5° | 4519.8 | 4523.7 | 4438.2 | 4288.7 | 4065.3 | 3904.1 | 3861.4 | 3985.7 | 4117.8 | 4199.3 | 4220.7 |
| 60° | 4951.0 | 4947.1 | 4881.1 | 4776.2 | 4552.8 | 4343.1 | 4273.1 | 4345.0 | 4512.0 | 4576.1 | 4601.4 |
| 62.5° | 5500.7 | 5514.3 | 5417.2 | 5343.4 | 5131.7 | 4929.7 | 4797.6 | 4867.5 | 5032.6 | 5121.9 | 5123.9 |
| 65° | 5797.9 | 5825.1 | 5867.8 | 6001.8 | 5931.9 | 5726.0 | 5559.0 | 5477.4 | 5426.9 | 5397.8 | 5380.3 |
| 67.5° | 5630.8 | 5632.8 | 5817.3 | 6159.1 | 6563.2 | 6695.2 | 6058.1 | 5487.1 | 5277.3 | 5219.1 | 5203.5 |
| 70° | 5201.6 | 5213.2 | 5465.7 | 6031.0 | 6805.9 | 6924.4 | 6238.8 | 5265.7 | 4945.2 | 4758.7 | 4756.8 |
| 72.5° | 4346.9 | 4488.7 | 4820.9 | 5658.0 | 6648.6 | 6635.0 | 5949.4 | 4908.3 | 4403.3 | 4218.8 | 4197.4 |
| 75° | 3439.9 | 3480.7 | 3941.0 | 4883.0 | 6065.9 | 6178.6 | 5527.9 | 4267.3 | 3680.7 | 3437.9 | 3424.3 |
| 77.5° | 2198.7 | 2235.6 | 2742.6 | 3789.5 | 5125.8 | 5399.7 | 4716.0 | 3408.8 | 2752.3 | 2412.4 | 2402.7 |
| 80° | 1074.1 | 1179.0 | 1563.6 | 2466.8 | 3700.2 | 3958.5 | 3317.5 | 2179.3 | 1629.6 | 1309.1 | 1281.9 |
| 82.5° | 440.9 | 464.2 | 761.4 | 1365.5 | 2171.5 | 2346.3 | 1695.7 | 1013.9 | 602.1 | 398.2 | 369.0 |
| 85° | 132.1 | 134.0 | 233.1 | 487.5 | 914.8 | 662.3 | 341.9 | 145.7 | 64.1 | 46.6 | 44.7 |
| 87.5° | 23.3 | 25.3 | 42.7 | 58.3 | 56.3 | 25.3 | 23.3 | 21.4 | 21.4 | 21.4 | 23.3 |
| 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)