

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: P507462

Luminaire Tested: **VERD-S-CA1-20-750-U-T5**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-750-U-T5
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 430mA LED AND TYPE V OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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

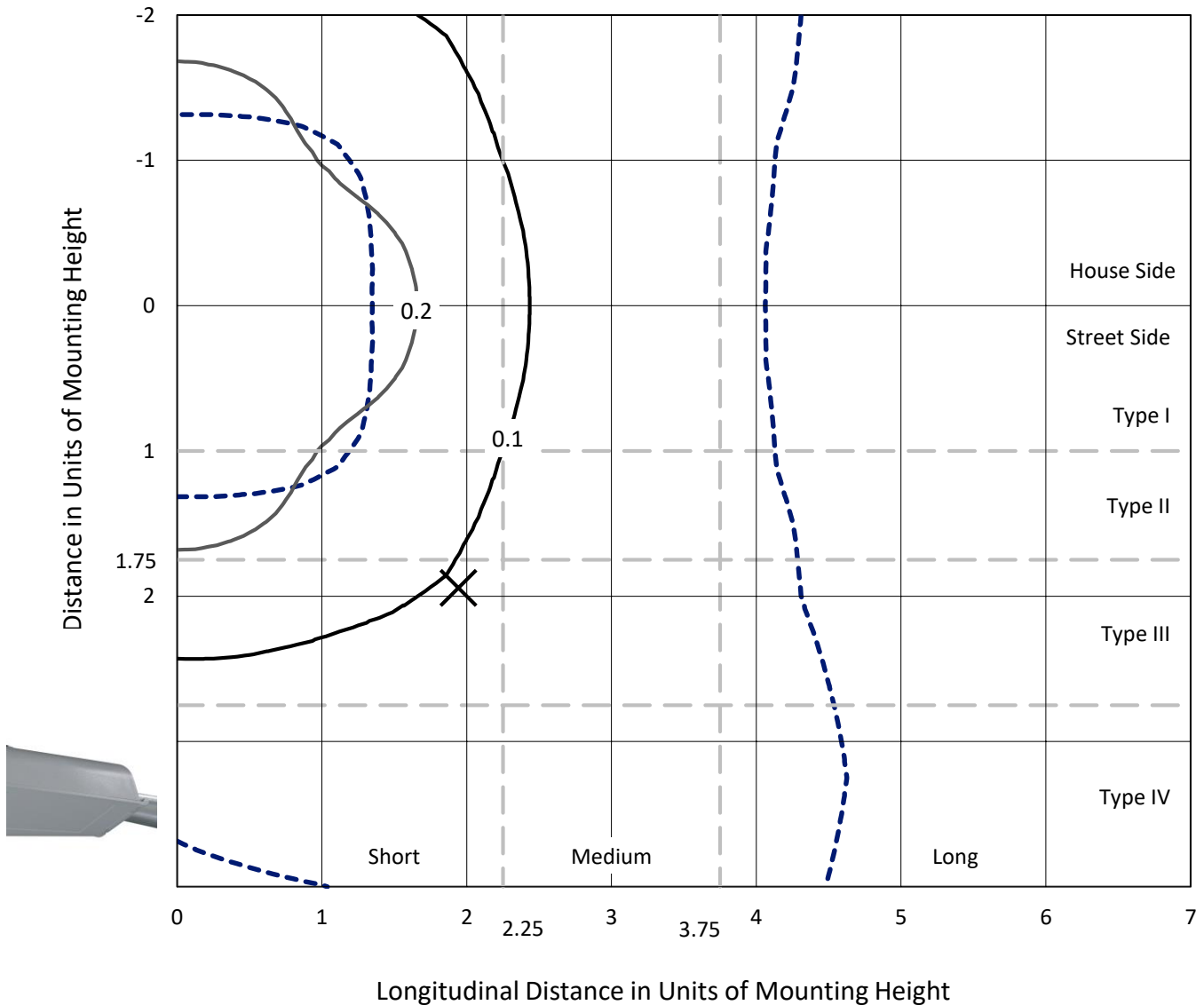


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Iso-Footcandle Lines of Horizontal Illumination

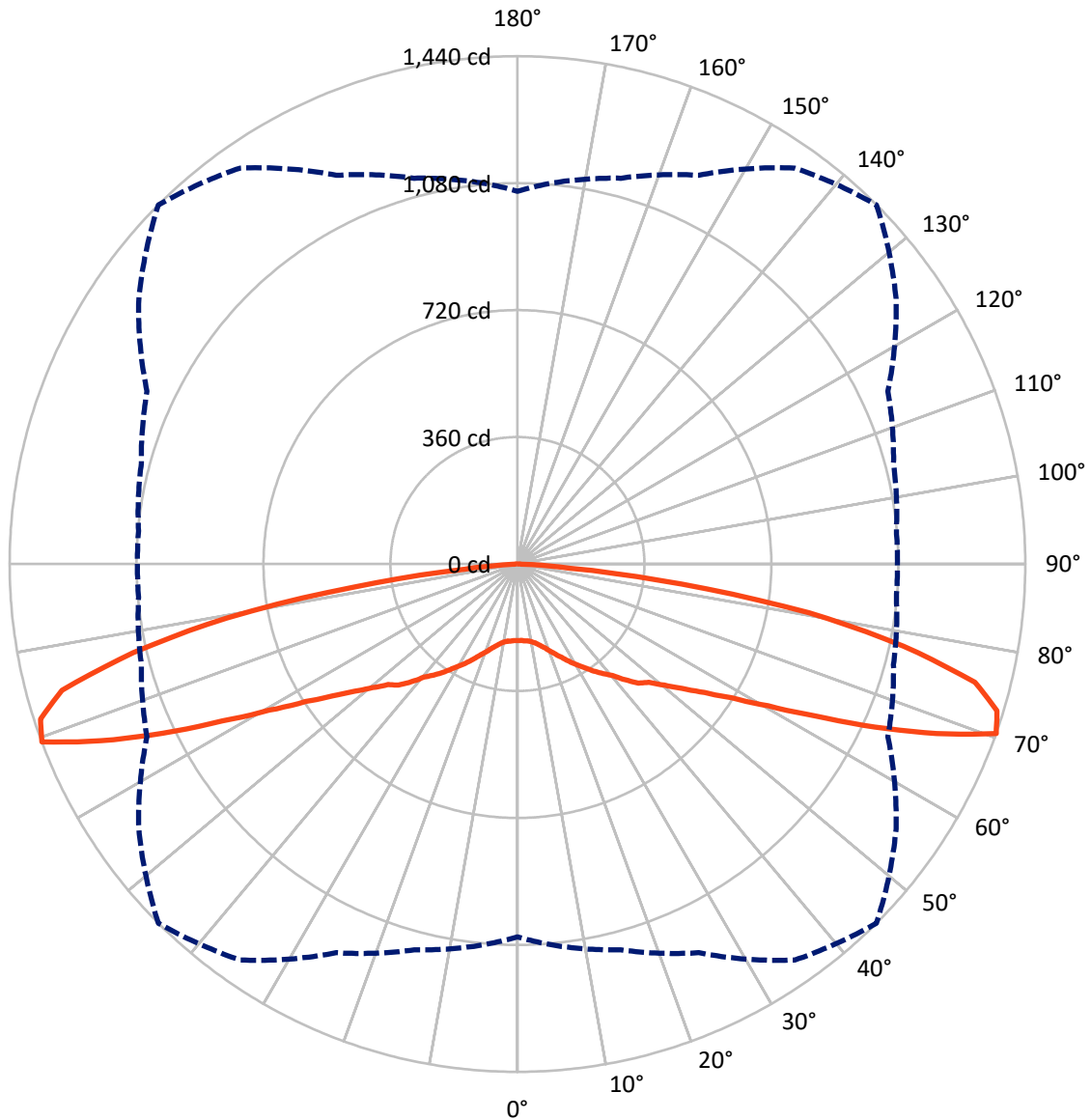
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 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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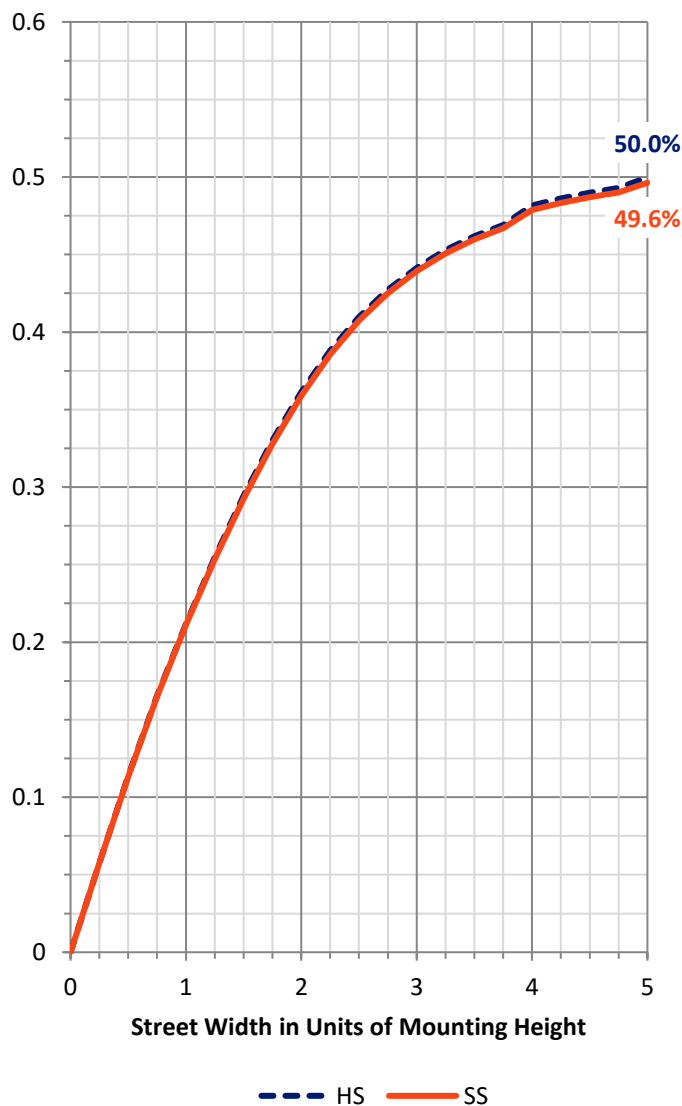
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1881.5 | 0.0 | 1881.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1881.5 | 0.0 | 1881.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3763.0 | 0.0 | 3763.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.0 | 0.6 |
| 10°-20° | 67.9 | 1.8 |
| 20°-30° | 134.7 | 3.6 |
| 30°-40° | 234.5 | 6.2 |
| 40°-50° | 384.2 | 10.2 |
| 50°-60° | 653.2 | 17.4 |
| 60°-70° | 1085.9 | 28.9 |
| 70°-80° | 1013.0 | 26.9 |
| 80°-90° | 168.5 | 4.5 |
| 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° | 3763.0 | 100.0 |
| 0°-180° | 3763.0 | 100.0 |

Coefficient of Utilization



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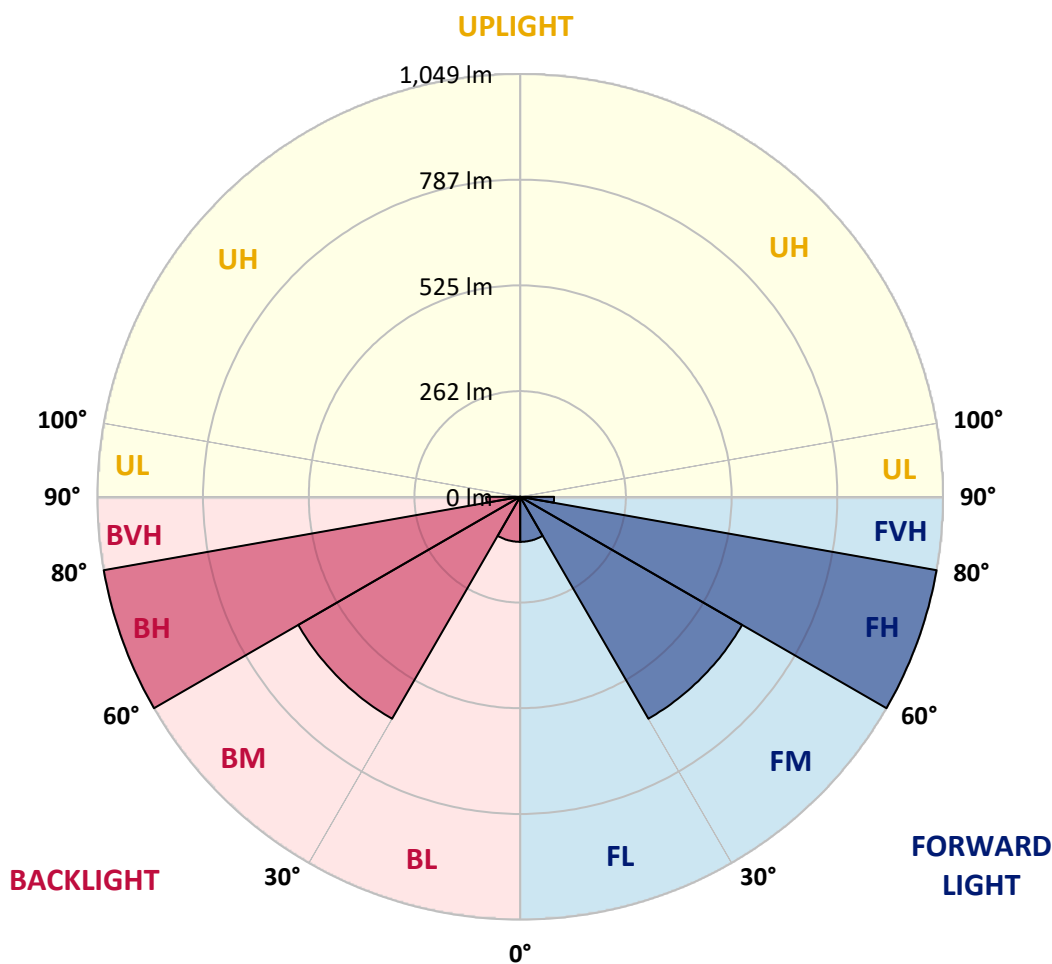
CATALOG NUMBER: VERD-S-CA1-20-750-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 111.9 | 3.0 | | | |
| FM (30°-60°) | 636.0 | 16.9 | | | |
| FH (60°-80°) | 1049.4 | 27.9 | | | G1/1800 |
| FVH (80°-90°) | 84.3 | 2.2 | | | G1/100 |
| BL (0°-30°) | 111.9 | 3.0 | B1/500 | | |
| BM (30°-60°) | 636.0 | 16.9 | B1/1000 | | |
| BH (60°-80°) | 1049.4 | 27.9 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 84.3 | 2.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 |
| 2.5° | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 216.9 | 217.9 | 217.9 | 217.9 | 217.9 |
| 5° | 219.0 | 219.0 | 217.9 | 217.9 | 217.9 | 219.0 | 219.0 | 219.0 | 219.0 | 220.0 | 220.0 |
| 7.5° | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 221.0 | 221.0 | 221.0 |
| 10° | 224.0 | 224.0 | 224.0 | 224.0 | 224.0 | 224.0 | 224.0 | 224.0 | 224.0 | 224.0 | 224.0 |
| 12.5° | 228.1 | 228.1 | 229.1 | 229.1 | 230.2 | 230.2 | 229.1 | 229.1 | 228.1 | 227.1 | 227.1 |
| 15° | 235.3 | 235.3 | 236.3 | 237.3 | 239.3 | 239.3 | 238.3 | 237.3 | 235.3 | 234.2 | 234.2 |
| 17.5° | 242.4 | 242.4 | 243.4 | 245.4 | 248.5 | 249.5 | 247.5 | 245.4 | 243.4 | 242.4 | 242.4 |
| 20° | 252.6 | 253.6 | 254.6 | 256.6 | 261.7 | 263.8 | 260.7 | 256.6 | 255.6 | 255.6 | 255.6 |
| 22.5° | 267.8 | 267.8 | 267.8 | 270.9 | 275.0 | 278.0 | 274.0 | 271.9 | 269.9 | 269.9 | 269.9 |
| 25° | 284.1 | 284.1 | 284.1 | 285.2 | 291.3 | 294.3 | 290.2 | 287.2 | 286.2 | 287.2 | 287.2 |
| 27.5° | 302.5 | 302.5 | 302.5 | 302.5 | 307.6 | 312.7 | 307.6 | 304.5 | 305.5 | 305.5 | 305.5 |
| 30° | 321.8 | 321.8 | 322.8 | 322.8 | 324.9 | 331.0 | 325.9 | 324.9 | 325.9 | 326.9 | 326.9 |
| 32.5° | 344.2 | 345.2 | 344.2 | 344.2 | 346.3 | 350.3 | 347.3 | 347.3 | 349.3 | 351.4 | 351.4 |
| 35° | 367.6 | 367.6 | 367.6 | 367.6 | 368.7 | 372.7 | 370.7 | 370.7 | 373.8 | 376.8 | 376.8 |
| 37.5° | 393.1 | 394.1 | 391.1 | 390.0 | 392.1 | 394.1 | 393.1 | 395.1 | 400.2 | 404.3 | 405.3 |
| 40° | 420.6 | 420.6 | 417.5 | 414.5 | 414.5 | 415.5 | 417.5 | 421.6 | 428.7 | 433.8 | 434.9 |
| 42.5° | 455.2 | 458.3 | 453.2 | 449.1 | 447.1 | 449.1 | 451.2 | 458.3 | 465.4 | 469.5 | 469.5 |
| 45° | 501.1 | 502.1 | 496.0 | 488.8 | 483.7 | 481.7 | 484.8 | 491.9 | 500.0 | 508.2 | 508.2 |
| 47.5° | 557.1 | 555.0 | 541.8 | 520.4 | 505.1 | 501.1 | 506.1 | 522.4 | 541.8 | 554.0 | 556.1 |
| 50° | 627.3 | 625.3 | 604.9 | 573.4 | 545.9 | 539.8 | 542.8 | 567.3 | 595.8 | 614.1 | 617.2 |
| 52.5° | 710.8 | 705.8 | 683.4 | 641.6 | 599.8 | 585.6 | 592.7 | 625.3 | 662.0 | 685.4 | 688.4 |
| 55° | 796.4 | 793.3 | 769.9 | 723.1 | 670.1 | 643.6 | 652.8 | 696.6 | 742.4 | 766.9 | 768.9 |
| 57.5° | 879.9 | 880.9 | 859.5 | 816.8 | 754.6 | 715.9 | 728.2 | 780.1 | 832.0 | 856.5 | 856.5 |
| 60° | 959.3 | 958.3 | 943.0 | 909.4 | 861.6 | 816.8 | 832.0 | 874.8 | 920.6 | 943.0 | 945.1 |
| 62.5° | 1035.7 | 1034.7 | 1029.6 | 1008.2 | 980.7 | 948.1 | 949.2 | 977.7 | 1014.3 | 1030.6 | 1033.7 |
| 65° | 1134.5 | 1132.5 | 1125.3 | 1112.1 | 1116.2 | 1114.1 | 1080.5 | 1087.7 | 1122.3 | 1140.6 | 1141.6 |
| 67.5° | 1141.6 | 1153.9 | 1177.3 | 1217.0 | 1274.0 | 1282.2 | 1239.4 | 1175.2 | 1157.9 | 1147.7 | 1146.7 |
| 70° | 1057.1 | 1083.6 | 1132.5 | 1216.0 | 1370.8 | 1440.0 | 1310.7 | 1158.9 | 1104.0 | 1078.5 | 1077.5 |
| 72.5° | 908.4 | 963.4 | 1027.6 | 1161.0 | 1376.9 | 1421.7 | 1317.8 | 1098.9 | 1010.3 | 968.5 | 962.4 |
| 75° | 703.7 | 756.7 | 863.6 | 1046.9 | 1295.4 | 1340.2 | 1238.4 | 985.8 | 871.8 | 831.0 | 818.8 |
| 77.5° | 432.8 | 496.0 | 609.0 | 818.8 | 1072.4 | 1118.2 | 1036.7 | 786.2 | 664.0 | 599.8 | 602.9 |
| 80° | 210.8 | 272.9 | 367.6 | 553.0 | 770.9 | 838.1 | 712.9 | 507.2 | 404.3 | 359.5 | 355.4 |
| 82.5° | 91.7 | 124.2 | 177.2 | 277.0 | 437.9 | 468.5 | 362.6 | 250.5 | 199.6 | 178.2 | 176.2 |
| 85° | 13.2 | 18.3 | 45.8 | 82.5 | 132.4 | 148.7 | 85.5 | 51.9 | 39.7 | 35.6 | 32.6 |
| 87.5° | 9.2 | 9.2 | 9.2 | 10.2 | 12.2 | 13.2 | 11.2 | 10.2 | 9.2 | 9.2 | 9.2 |
| 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)