

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: P507702

Luminaire Tested: **VERD-S-CA1-70-750-U-T5**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507702
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-CA1-70-750-U-T5
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1330mA LED AND TYPE V OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10481 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

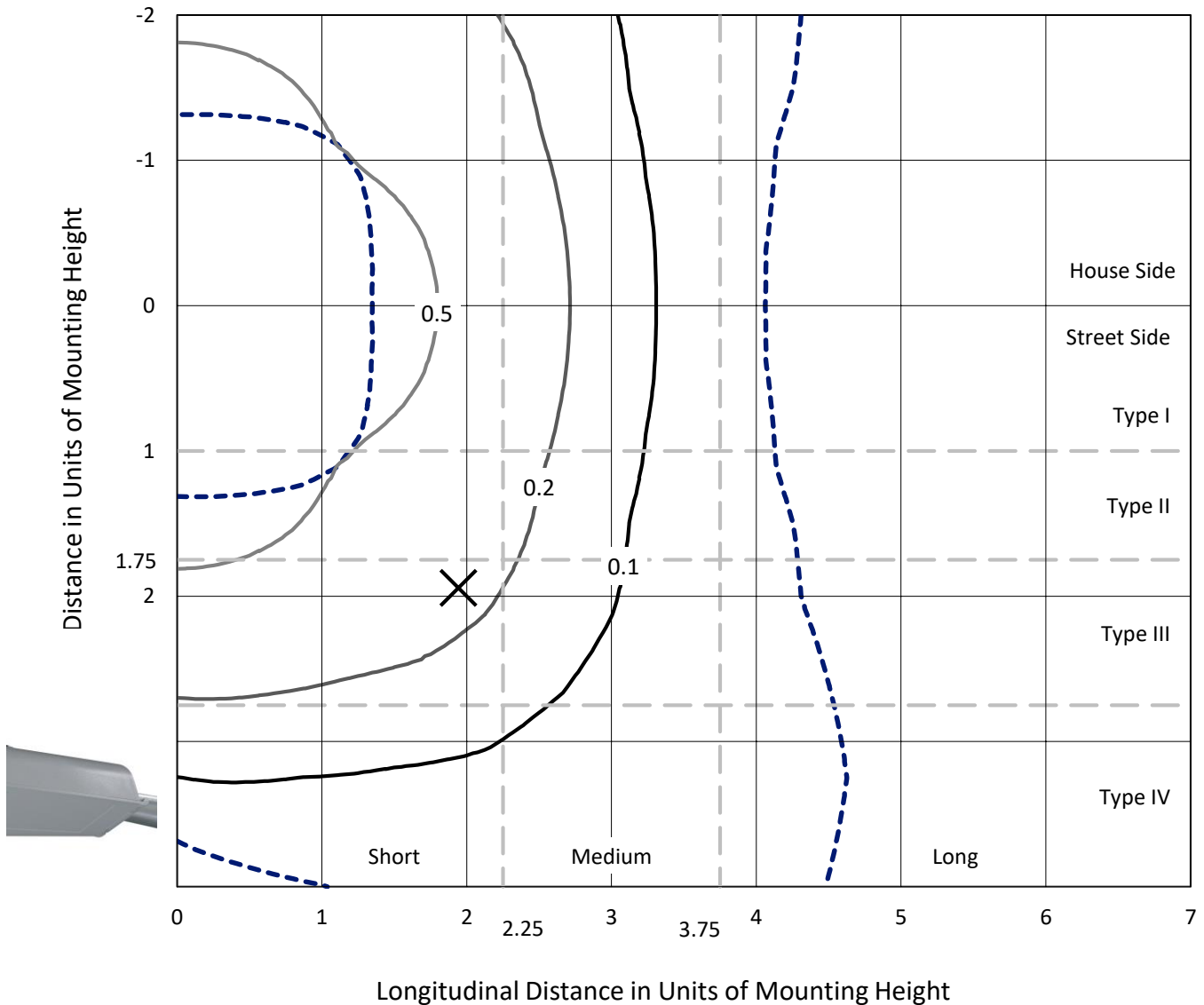
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

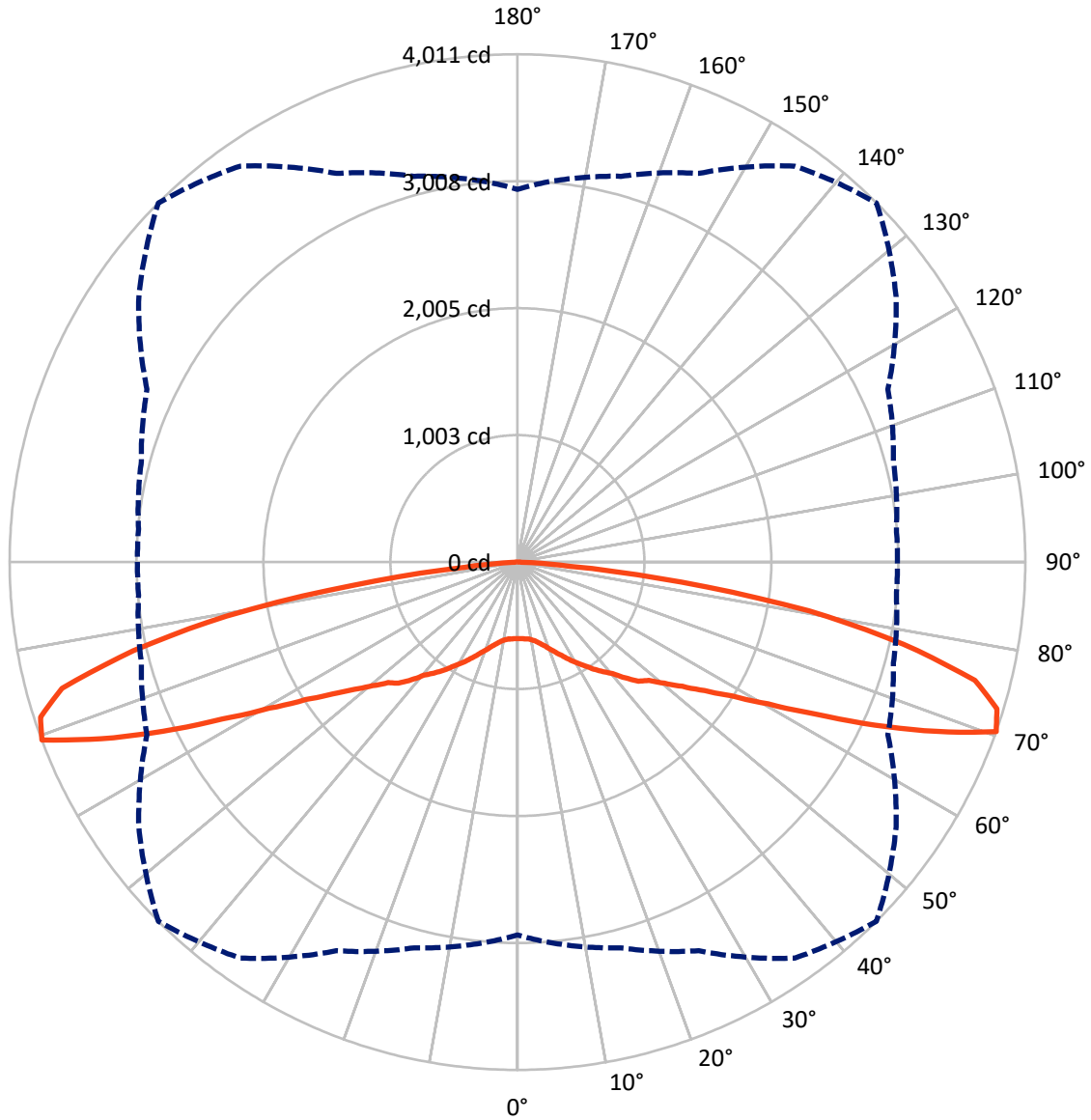
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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CATALOG NUMBER: VERD-S-CA1-70-750-U-T5

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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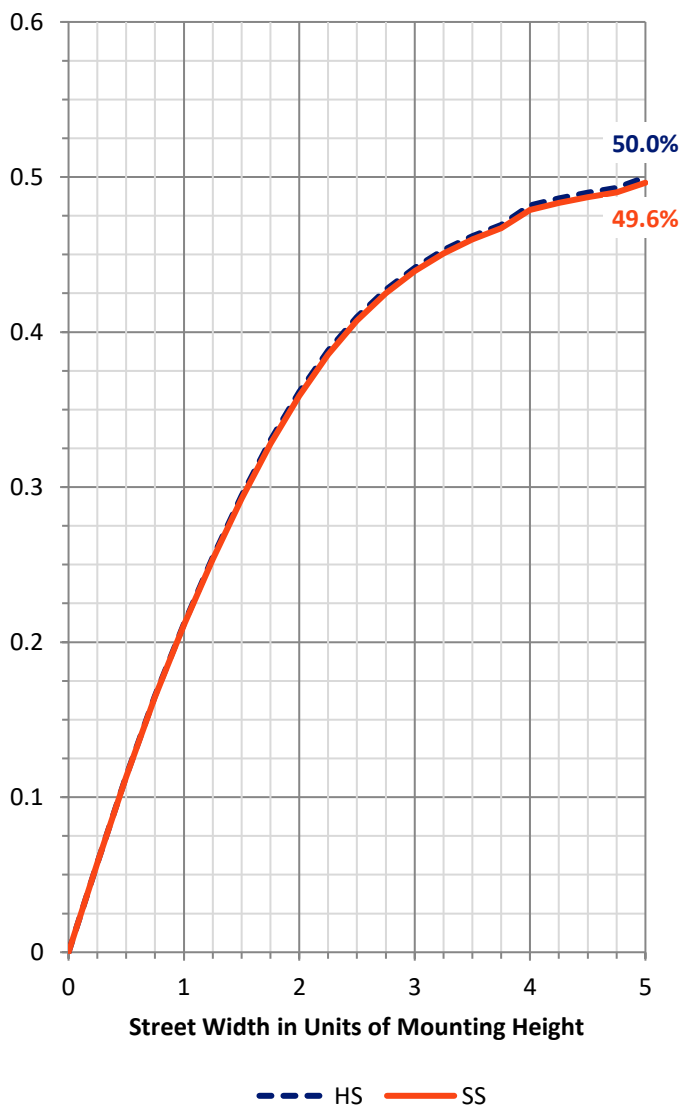
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5240.5 | 0.0 | 5240.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5240.5 | 0.0 | 5240.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10481.0 | 0.0 | 10481.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 58.5 | 0.6 |
| 10°-20° | 189.2 | 1.8 |
| 20°-30° | 375.3 | 3.6 |
| 30°-40° | 653.1 | 6.2 |
| 40°-50° | 1070.0 | 10.2 |
| 50°-60° | 1819.5 | 17.4 |
| 60°-70° | 3024.5 | 28.9 |
| 70°-80° | 2821.4 | 26.9 |
| 80°-90° | 469.3 | 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° | 10481.0 | 100.0 |
| 0°-180° | 10481.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P507702

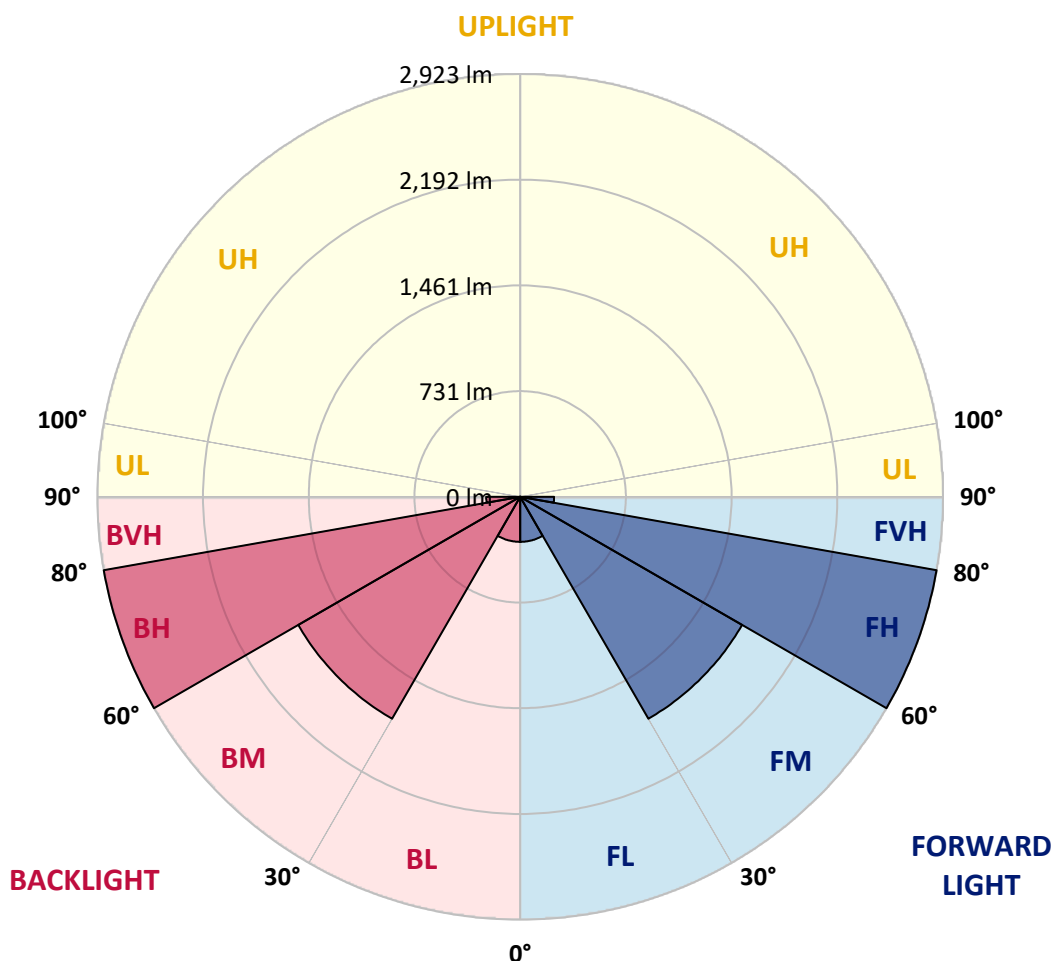
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 311.5 | 3.0 | | | |
| FM | (30°-60°) | 1771.3 | 16.9 | | | |
| FH | (60°-80°) | 2923.0 | 27.9 | | | G2/5000 |
| FVH | (80°-90°) | 234.7 | 2.2 | | | G3/500 |
| BL | (0°-30°) | 311.5 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 1771.3 | 16.9 | B2/2500 | | |
| BH | (60°-80°) | 2923.0 | 27.9 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 234.7 | 2.2 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 |
| 2.5° | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 607.0 | 607.0 | 607.0 | 607.0 |
| 5° | 609.9 | 609.9 | 607.0 | 607.0 | 607.0 | 609.9 | 609.9 | 609.9 | 609.9 | 612.7 | 612.7 |
| 7.5° | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 615.5 | 615.5 | 615.5 |
| 10° | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 |
| 12.5° | 635.4 | 635.4 | 638.2 | 638.2 | 641.1 | 641.1 | 638.2 | 638.2 | 635.4 | 632.5 | 632.5 |
| 15° | 655.2 | 655.2 | 658.1 | 660.9 | 666.6 | 666.6 | 663.8 | 660.9 | 655.2 | 652.4 | 652.4 |
| 17.5° | 675.1 | 675.1 | 677.9 | 683.6 | 692.1 | 695.0 | 689.3 | 683.6 | 677.9 | 675.1 | 675.1 |
| 20° | 703.5 | 706.3 | 709.1 | 714.8 | 729.0 | 734.7 | 726.2 | 714.8 | 712.0 | 712.0 | 712.0 |
| 22.5° | 746.0 | 746.0 | 746.0 | 754.5 | 765.9 | 774.4 | 763.0 | 757.4 | 751.7 | 751.7 | 751.7 |
| 25° | 791.4 | 791.4 | 791.4 | 794.2 | 811.3 | 819.8 | 808.4 | 799.9 | 797.1 | 799.9 | 799.9 |
| 27.5° | 842.5 | 842.5 | 842.5 | 842.5 | 856.6 | 870.8 | 856.6 | 848.1 | 851.0 | 851.0 | 851.0 |
| 30° | 896.3 | 896.3 | 899.2 | 899.2 | 904.9 | 921.9 | 907.7 | 904.9 | 907.7 | 910.5 | 910.5 |
| 32.5° | 958.8 | 961.6 | 958.8 | 958.8 | 964.4 | 975.8 | 967.3 | 967.3 | 972.9 | 978.6 | 978.6 |
| 35° | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1026.8 | 1038.2 | 1032.5 | 1032.5 | 1041.0 | 1049.5 | 1049.5 |
| 37.5° | 1094.9 | 1097.7 | 1089.2 | 1086.4 | 1092.1 | 1097.7 | 1094.9 | 1100.6 | 1114.8 | 1126.1 | 1128.9 |
| 40° | 1171.5 | 1171.5 | 1163.0 | 1154.5 | 1154.5 | 1157.3 | 1163.0 | 1174.3 | 1194.2 | 1208.4 | 1211.2 |
| 42.5° | 1267.9 | 1276.4 | 1262.3 | 1250.9 | 1245.2 | 1250.9 | 1256.6 | 1276.4 | 1296.3 | 1307.6 | 1307.6 |
| 45° | 1395.6 | 1398.4 | 1381.4 | 1361.5 | 1347.4 | 1341.7 | 1350.2 | 1370.1 | 1392.7 | 1415.4 | 1415.4 |
| 47.5° | 1551.6 | 1545.9 | 1509.0 | 1449.5 | 1406.9 | 1395.6 | 1409.8 | 1455.1 | 1509.0 | 1543.1 | 1548.8 |
| 50° | 1747.3 | 1741.6 | 1684.9 | 1597.0 | 1520.4 | 1503.4 | 1511.9 | 1580.0 | 1659.4 | 1710.4 | 1718.9 |
| 52.5° | 1979.9 | 1965.7 | 1903.3 | 1787.0 | 1670.7 | 1631.0 | 1650.9 | 1741.6 | 1843.8 | 1909.0 | 1917.5 |
| 55° | 2218.2 | 2209.7 | 2144.4 | 2013.9 | 1866.4 | 1792.7 | 1818.2 | 1940.2 | 2067.8 | 2135.9 | 2141.6 |
| 57.5° | 2450.8 | 2453.6 | 2394.0 | 2274.9 | 2101.9 | 1994.1 | 2028.1 | 2172.8 | 2317.5 | 2385.5 | 2385.5 |
| 60° | 2672.0 | 2669.2 | 2626.6 | 2533.0 | 2399.7 | 2274.9 | 2317.5 | 2436.6 | 2564.2 | 2626.6 | 2632.3 |
| 62.5° | 2884.8 | 2881.9 | 2867.7 | 2808.2 | 2731.6 | 2640.8 | 2643.7 | 2723.1 | 2825.2 | 2870.6 | 2879.1 |
| 65° | 3159.9 | 3154.2 | 3134.4 | 3097.5 | 3108.9 | 3103.2 | 3009.6 | 3029.4 | 3125.9 | 3176.9 | 3179.8 |
| 67.5° | 3179.8 | 3213.8 | 3279.0 | 3389.7 | 3548.5 | 3571.2 | 3452.1 | 3273.4 | 3225.2 | 3196.8 | 3194.0 |
| 70° | 2944.3 | 3018.1 | 3154.2 | 3386.8 | 3818.0 | 4010.9 | 3650.6 | 3228.0 | 3074.8 | 3003.9 | 3001.1 |
| 72.5° | 2530.2 | 2683.4 | 2862.1 | 3233.7 | 3835.0 | 3959.8 | 3670.5 | 3060.6 | 2813.9 | 2697.6 | 2680.5 |
| 75° | 1960.1 | 2107.6 | 2405.4 | 2916.0 | 3608.1 | 3732.9 | 3449.2 | 2745.8 | 2428.1 | 2314.6 | 2280.6 |
| 77.5° | 1205.5 | 1381.4 | 1696.3 | 2280.6 | 2986.9 | 3114.5 | 2887.6 | 2189.8 | 1849.4 | 1670.7 | 1679.2 |
| 80° | 587.2 | 760.2 | 1024.0 | 1540.2 | 2147.3 | 2334.5 | 1985.6 | 1412.6 | 1126.1 | 1001.3 | 990.0 |
| 82.5° | 255.3 | 346.1 | 493.6 | 771.5 | 1219.7 | 1304.8 | 1009.8 | 697.8 | 556.0 | 496.4 | 490.7 |
| 85° | 36.9 | 51.1 | 127.6 | 229.8 | 368.8 | 414.1 | 238.3 | 144.7 | 110.6 | 99.3 | 90.8 |
| 87.5° | 25.5 | 25.5 | 25.5 | 28.4 | 34.0 | 36.9 | 31.2 | 28.4 | 25.5 | 25.5 | 25.5 |
| 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)