

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: P402632

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-2)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-5WQ-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9463 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

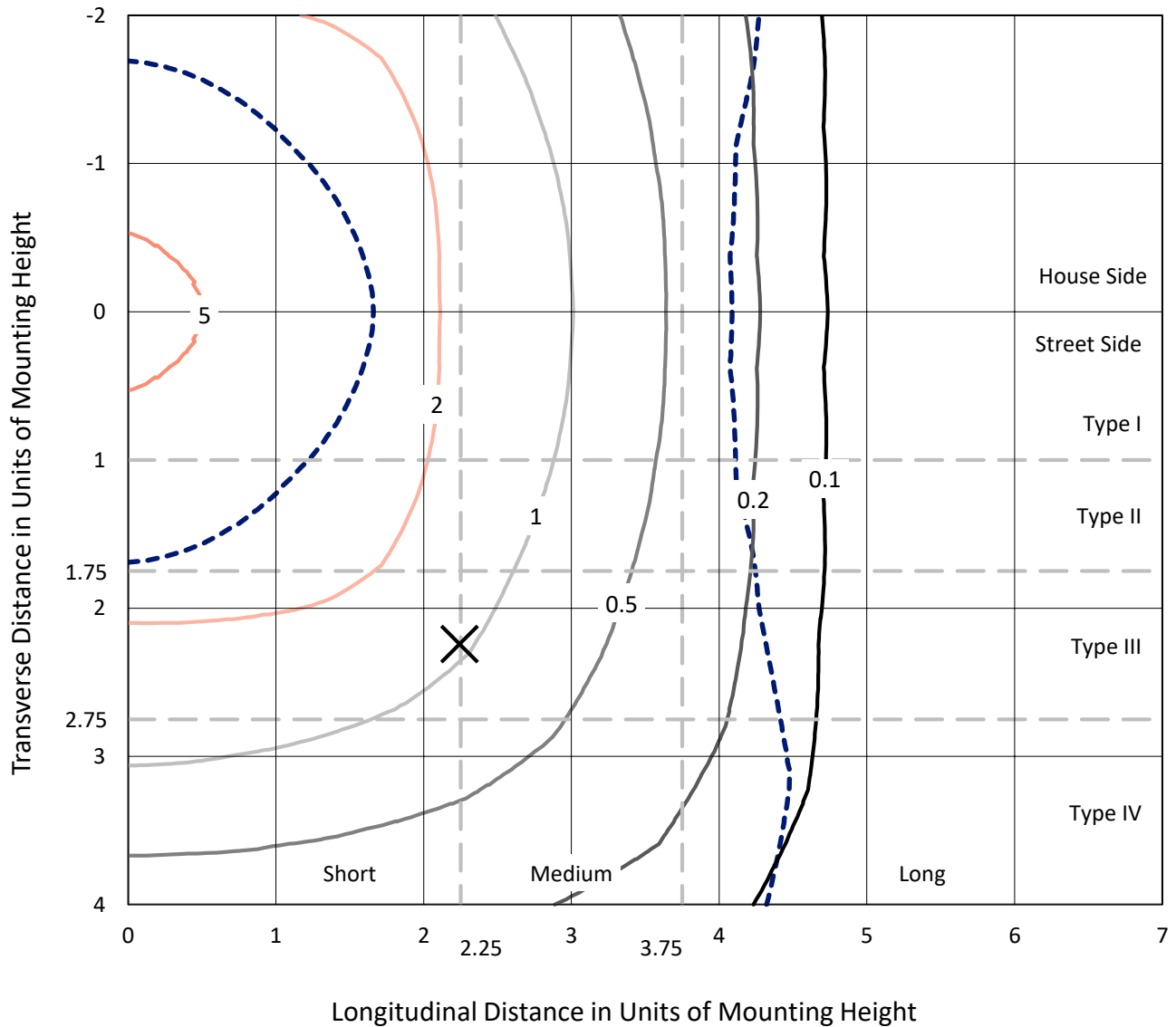
Input Watts (W): 178.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

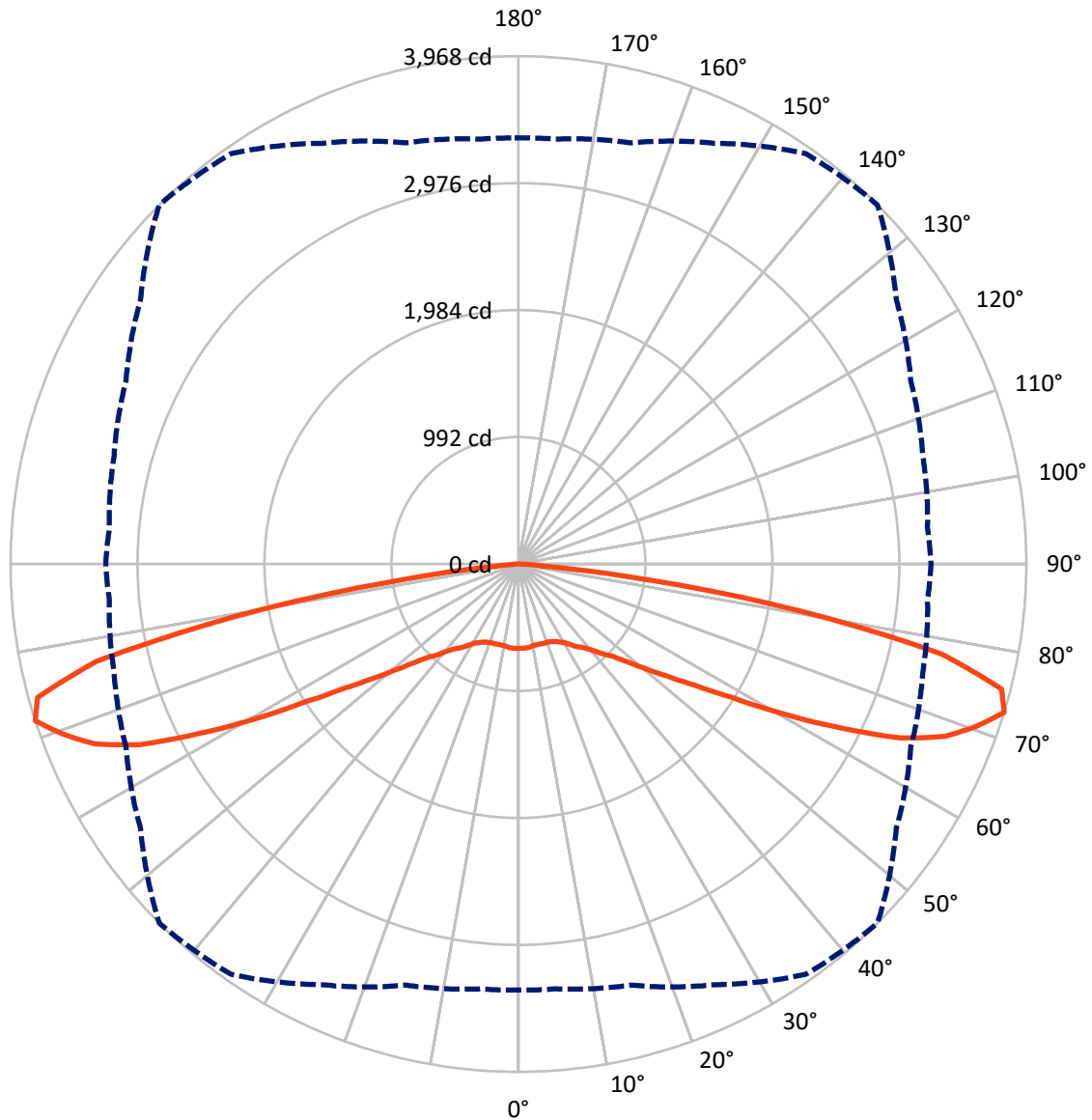
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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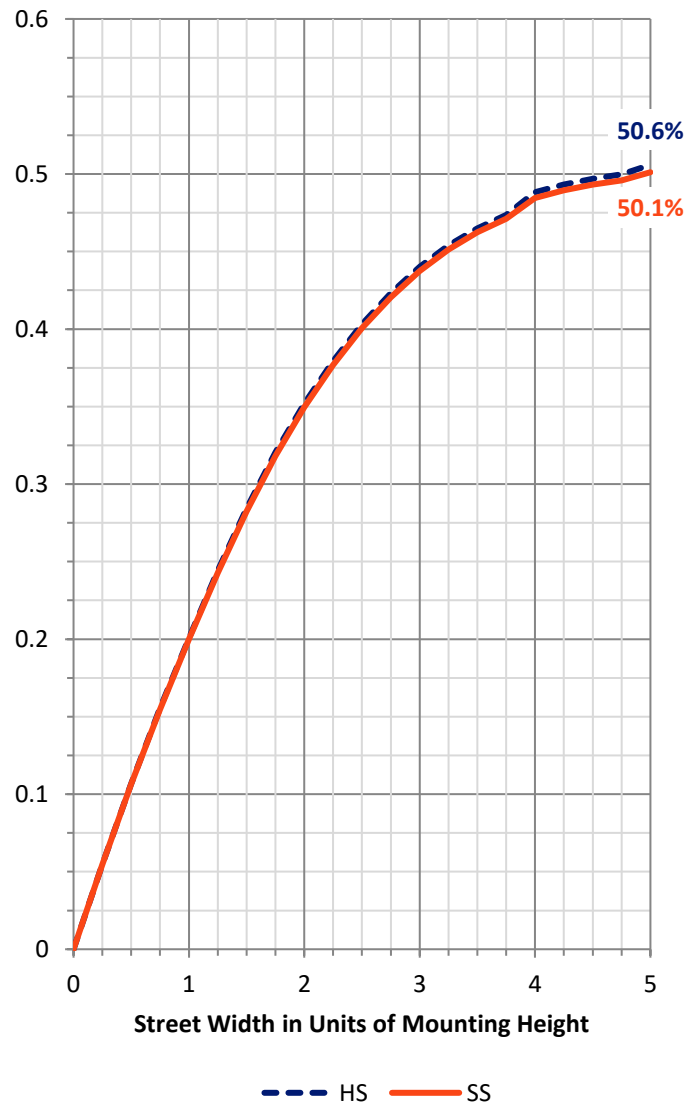
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4731.5 | 0.0 | 4731.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4731.5 | 0.0 | 4731.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9463.0 | 0.0 | 9463.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.6 | 0.7 |
| 10°-20° | 185.9 | 2.0 |
| 20°-30° | 318.4 | 3.4 |
| 30°-40° | 499.2 | 5.3 |
| 40°-50° | 826.2 | 8.7 |
| 50°-60° | 1523.4 | 16.1 |
| 60°-70° | 2829.9 | 29.9 |
| 70°-80° | 2946.6 | 31.1 |
| 80°-90° | 270.8 | 2.9 |
| 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° | 9463.0 | 100.0 |
| 0°-180° | 9463.0 | 100.0 |

Coefficient of Utilization



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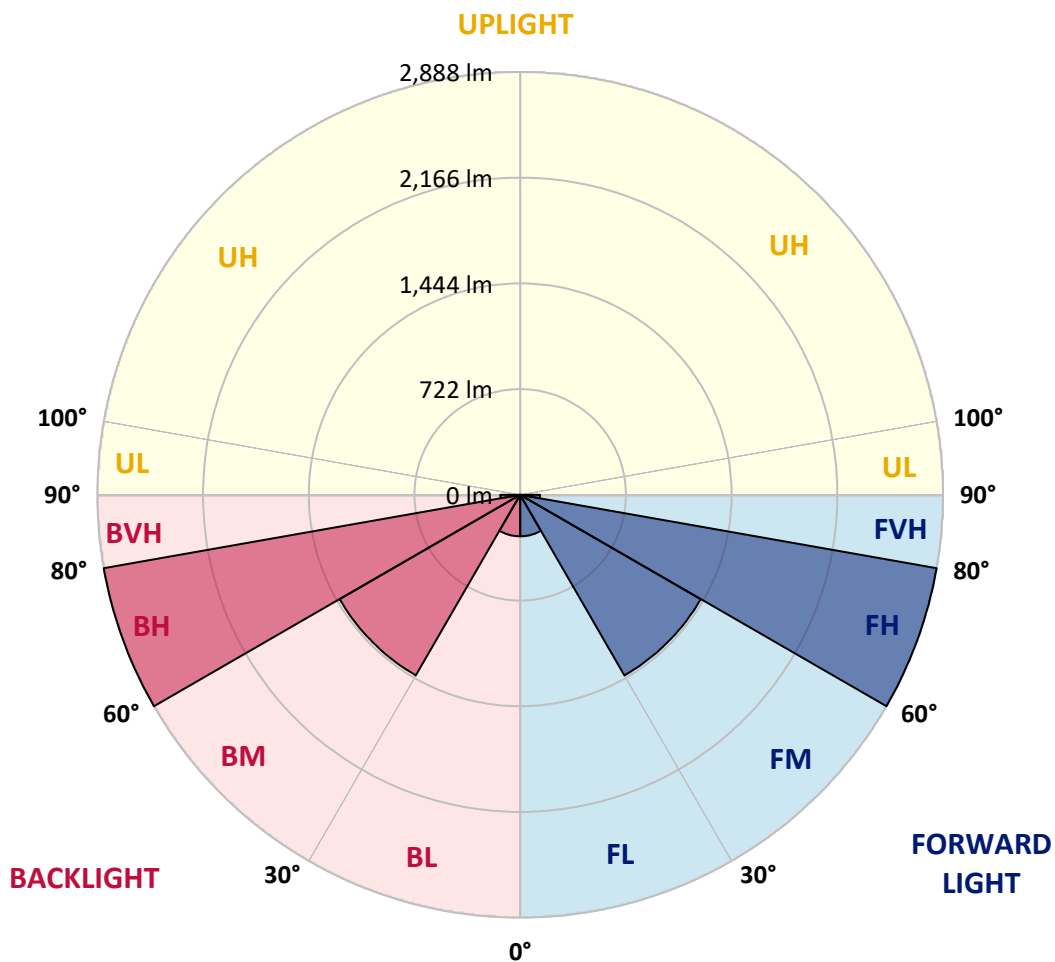
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 283.4 | 3.0 | | | |
| FM | (30°-60°) | 1424.4 | 15.1 | | | |
| FH | (60°-80°) | 2888.2 | 30.5 | | | G2/5000 |
| FVH | (80°-90°) | 135.4 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 283.4 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 1424.4 | 15.1 | B2/2500 | | |
| BH | (60°-80°) | 2888.2 | 30.5 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 135.4 | 1.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 |
| 2.5° | 662.6 | 662.6 | 662.6 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 | 658.7 |
| 5° | 662.6 | 662.6 | 662.6 | 662.6 | 658.7 | 658.7 | 658.7 | 654.8 | 654.8 | 654.8 | 658.7 |
| 7.5° | 658.7 | 662.6 | 658.7 | 658.7 | 654.8 | 654.8 | 651.0 | 651.0 | 651.0 | 651.0 | 651.0 |
| 10° | 662.6 | 662.6 | 658.7 | 654.8 | 651.0 | 647.1 | 647.1 | 647.1 | 647.1 | 651.0 | 651.0 |
| 12.5° | 666.5 | 666.5 | 658.7 | 651.0 | 651.0 | 647.1 | 647.1 | 647.1 | 647.1 | 651.0 | 654.8 |
| 15° | 670.3 | 670.3 | 662.6 | 651.0 | 651.0 | 647.1 | 647.1 | 647.1 | 654.8 | 658.7 | 662.6 |
| 17.5° | 678.1 | 674.2 | 662.6 | 654.8 | 651.0 | 651.0 | 651.0 | 651.0 | 658.7 | 666.5 | 666.5 |
| 20° | 678.1 | 678.1 | 666.5 | 654.8 | 654.8 | 651.0 | 654.8 | 654.8 | 662.6 | 670.3 | 674.2 |
| 22.5° | 689.7 | 685.8 | 670.3 | 662.6 | 658.7 | 658.7 | 662.6 | 662.6 | 670.3 | 678.1 | 682.0 |
| 25° | 701.3 | 701.3 | 685.8 | 674.2 | 670.3 | 670.3 | 674.2 | 674.2 | 682.0 | 693.6 | 697.5 |
| 27.5° | 724.6 | 720.7 | 705.2 | 693.6 | 689.7 | 689.7 | 697.5 | 697.5 | 701.3 | 713.0 | 716.8 |
| 30° | 743.9 | 743.9 | 728.5 | 724.6 | 716.8 | 713.0 | 720.7 | 728.5 | 728.5 | 736.2 | 740.1 |
| 32.5° | 759.4 | 759.4 | 751.7 | 751.7 | 755.6 | 751.7 | 759.4 | 755.6 | 751.7 | 759.4 | 759.4 |
| 35° | 786.6 | 786.6 | 778.8 | 774.9 | 790.4 | 794.3 | 790.4 | 778.8 | 778.8 | 786.6 | 790.4 |
| 37.5° | 829.2 | 829.2 | 821.4 | 813.7 | 817.6 | 829.2 | 817.6 | 813.7 | 821.4 | 833.1 | 836.9 |
| 40° | 891.2 | 895.1 | 887.3 | 883.4 | 871.8 | 883.4 | 871.8 | 879.6 | 891.2 | 898.9 | 898.9 |
| 42.5° | 960.9 | 964.8 | 953.2 | 945.4 | 949.3 | 957.1 | 941.6 | 945.4 | 960.9 | 972.6 | 972.6 |
| 45° | 1069.4 | 1065.6 | 1046.2 | 1034.6 | 1022.9 | 1026.8 | 1019.1 | 1038.4 | 1053.9 | 1073.3 | 1081.1 |
| 47.5° | 1174.0 | 1170.2 | 1162.4 | 1150.8 | 1135.3 | 1139.2 | 1139.2 | 1154.7 | 1174.0 | 1193.4 | 1193.4 |
| 50° | 1305.8 | 1305.8 | 1294.2 | 1286.4 | 1274.8 | 1282.5 | 1274.8 | 1294.2 | 1317.4 | 1332.9 | 1336.8 |
| 52.5° | 1456.9 | 1453.0 | 1453.0 | 1449.2 | 1441.4 | 1456.9 | 1445.3 | 1468.5 | 1487.9 | 1491.8 | 1499.5 |
| 55° | 1615.8 | 1627.4 | 1642.9 | 1642.9 | 1654.5 | 1670.0 | 1662.3 | 1666.1 | 1681.6 | 1666.1 | 1673.9 |
| 57.5° | 1821.1 | 1832.7 | 1856.0 | 1887.0 | 1925.7 | 1968.4 | 1941.2 | 1921.9 | 1890.9 | 1867.6 | 1863.7 |
| 60° | 2034.2 | 2045.9 | 2092.4 | 2185.4 | 2282.2 | 2375.2 | 2293.8 | 2204.7 | 2135.0 | 2076.9 | 2073.0 |
| 62.5° | 2266.7 | 2286.1 | 2352.0 | 2491.5 | 2677.4 | 2816.9 | 2689.1 | 2514.7 | 2386.8 | 2297.7 | 2301.6 |
| 65° | 2572.8 | 2584.4 | 2654.2 | 2816.9 | 3107.5 | 3278.0 | 3080.4 | 2847.9 | 2689.1 | 2588.3 | 2592.2 |
| 67.5° | 3033.9 | 3026.2 | 3061.0 | 3216.0 | 3456.3 | 3595.8 | 3359.4 | 3169.5 | 3006.8 | 2890.6 | 2909.9 |
| 70° | 3355.5 | 3351.6 | 3374.9 | 3537.6 | 3770.1 | 3797.2 | 3560.9 | 3347.8 | 3212.2 | 3142.4 | 3142.4 |
| 72.5° | 3328.4 | 3332.3 | 3405.9 | 3626.8 | 3913.5 | 3967.7 | 3603.5 | 3382.6 | 3270.3 | 3208.3 | 3223.8 |
| 75° | 2692.9 | 2700.7 | 2909.9 | 3312.9 | 3793.4 | 3898.0 | 3506.6 | 3134.7 | 2809.2 | 2630.9 | 2599.9 |
| 77.5° | 1294.2 | 1305.8 | 1615.8 | 2282.2 | 3061.0 | 3382.6 | 3033.9 | 2251.2 | 1646.8 | 1336.8 | 1367.8 |
| 80° | 391.3 | 403.0 | 534.7 | 937.7 | 1751.4 | 2259.0 | 1813.4 | 926.1 | 472.7 | 344.9 | 344.9 |
| 82.5° | 85.2 | 104.6 | 124.0 | 205.4 | 604.5 | 1030.7 | 604.5 | 228.6 | 139.5 | 100.7 | 93.0 |
| 85° | 46.5 | 46.5 | 69.7 | 73.6 | 96.9 | 170.5 | 116.2 | 93.0 | 81.4 | 54.2 | 54.2 |
| 87.5° | 19.4 | 19.4 | 34.9 | 34.9 | 38.7 | 27.1 | 42.6 | 46.5 | 46.5 | 27.1 | 27.1 |
| 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)