

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: P509370

Luminaire Tested: **VERD-CA2-80-740-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509370
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-CA2-80-740-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11986 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

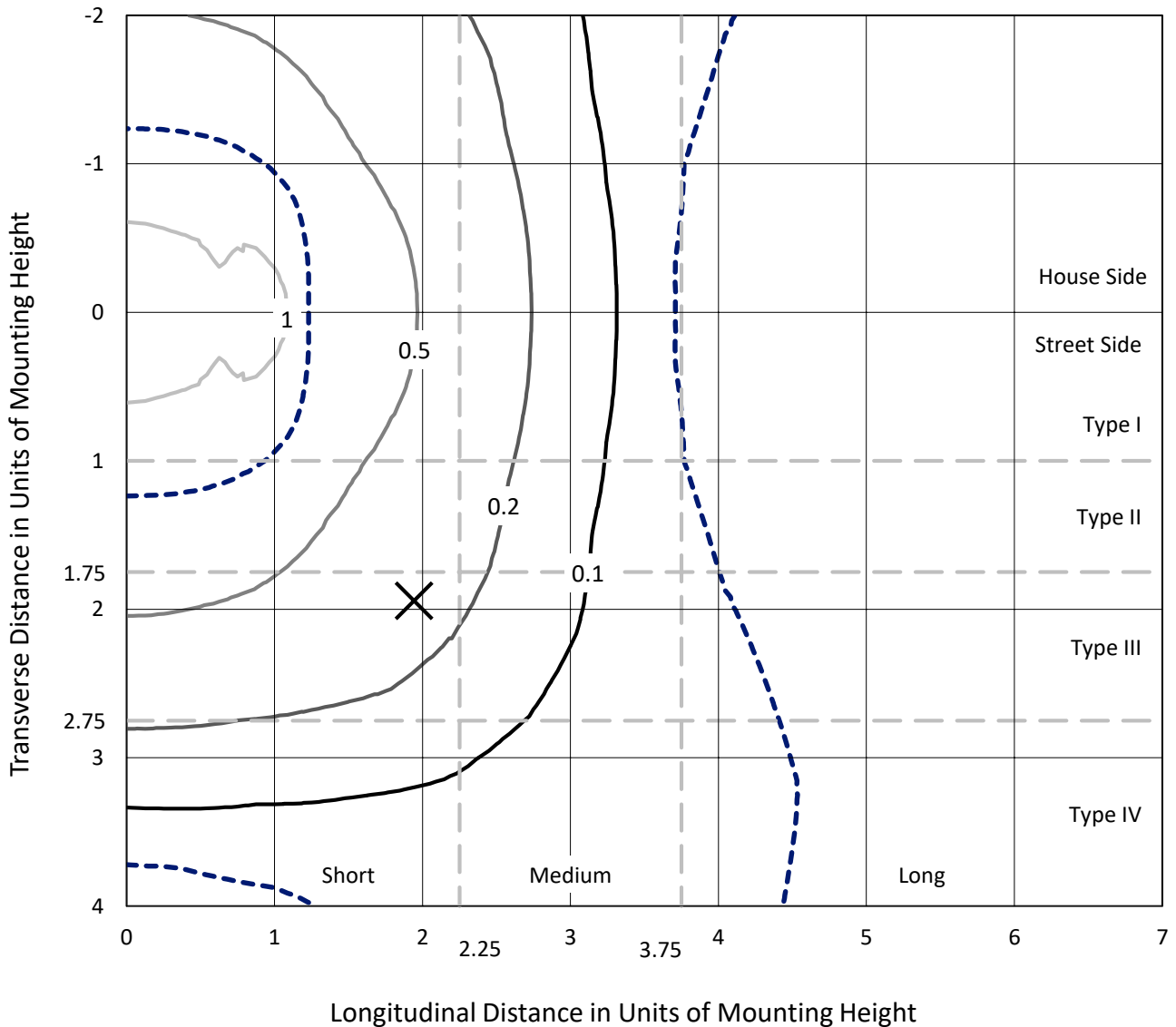
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

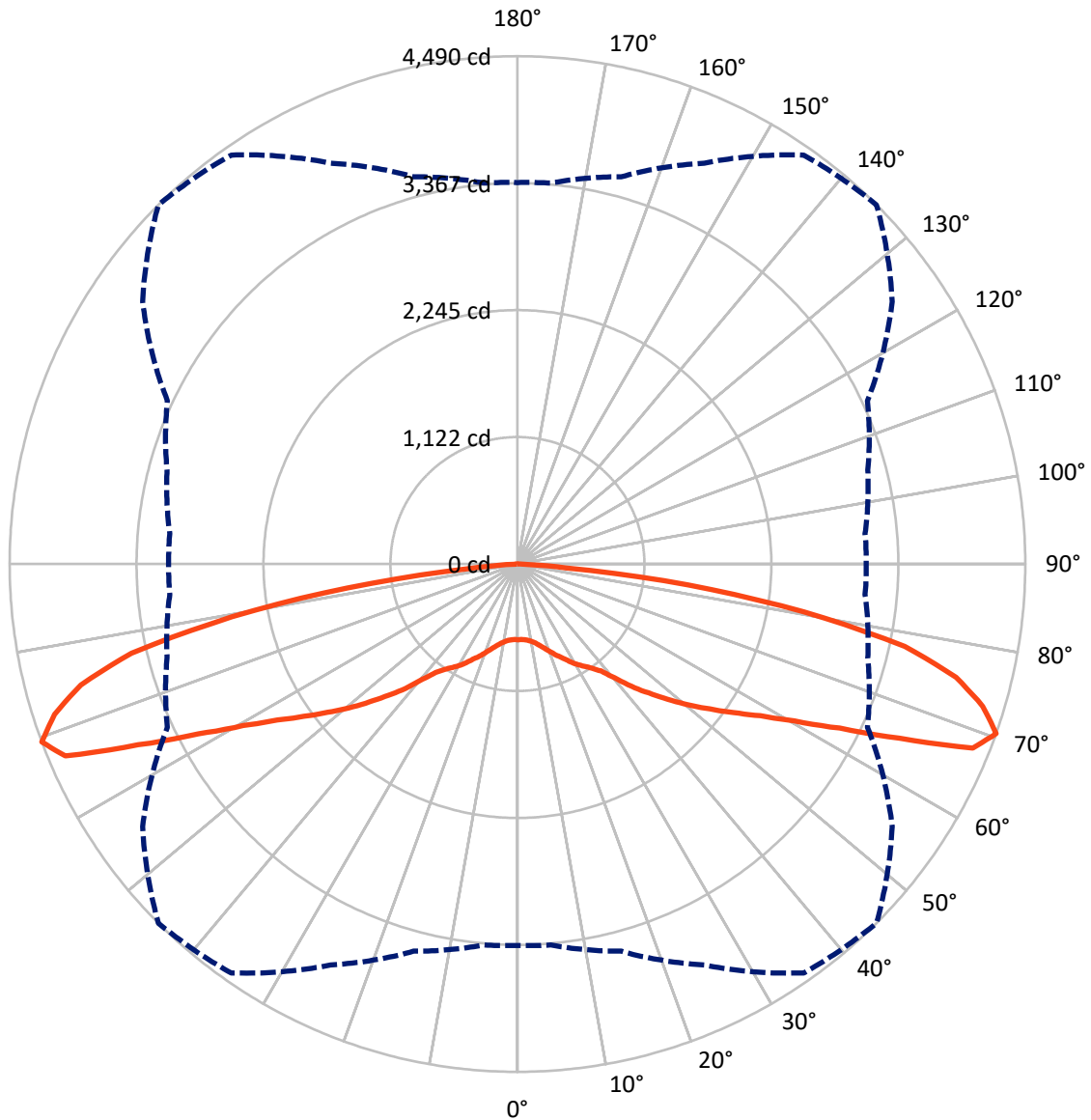
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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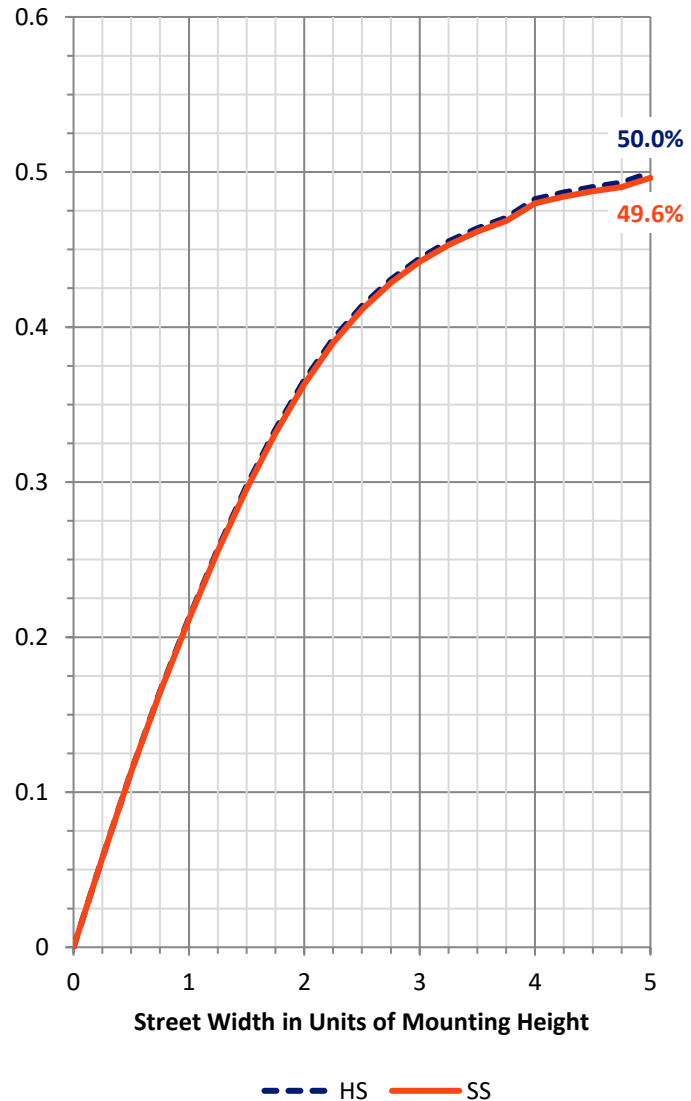
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5993.0 | 0.0 | 5993.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5993.0 | 0.0 | 5993.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11986.0 | 0.0 | 11986.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 65.1 | 0.5 |
| 10°-20° | 214.1 | 1.8 |
| 20°-30° | 420.6 | 3.5 |
| 30°-40° | 721.3 | 6.0 |
| 40°-50° | 1324.4 | 11.0 |
| 50°-60° | 2228.9 | 18.6 |
| 60°-70° | 3521.7 | 29.4 |
| 70°-80° | 3005.3 | 25.1 |
| 80°-90° | 484.5 | 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° | 11986.0 | 100.0 |
| 0°-180° | 11986.0 | 100.0 |



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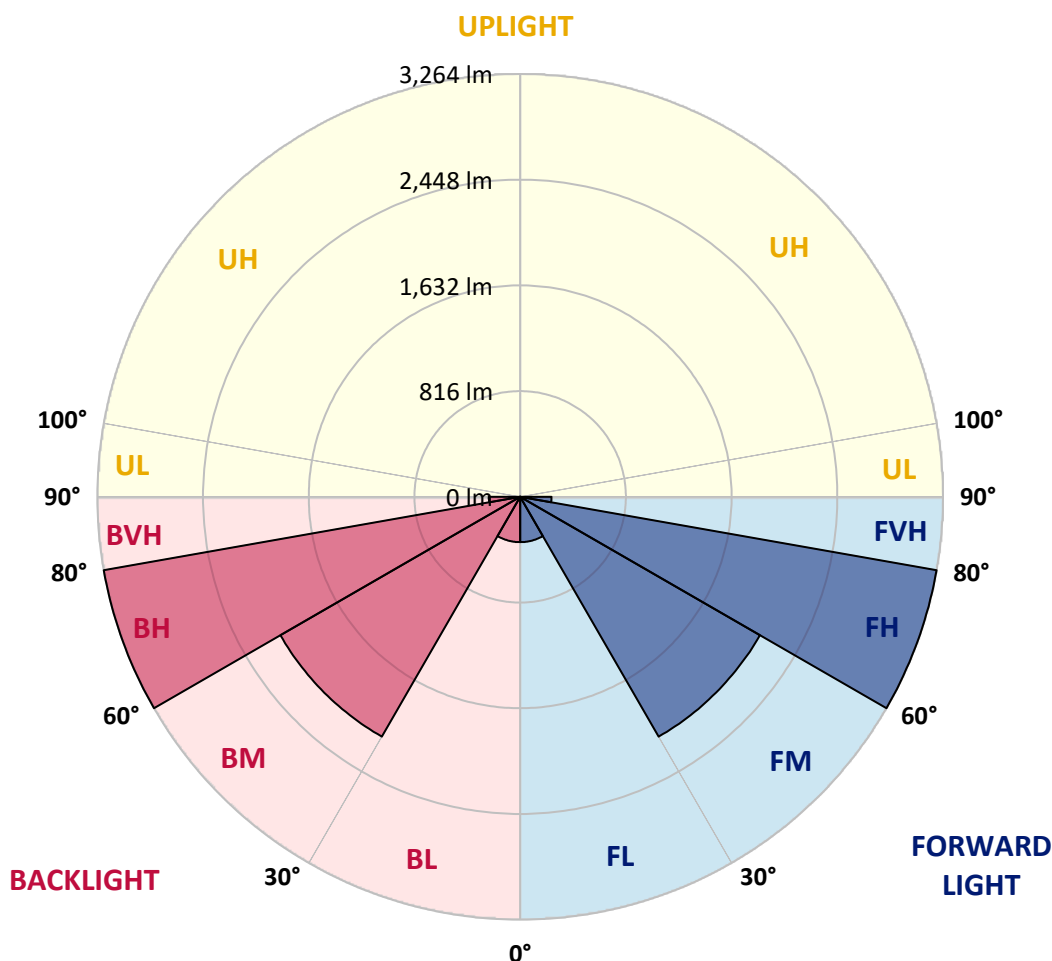
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 349.9 | 2.9 | | | |
| FM (30°-60°) | 2137.3 | 17.8 | | | |
| FH (60°-80°) | 3263.5 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 242.3 | 2.0 | | | G3/500 |
| BL (0°-30°) | 349.9 | 2.9 | B1/500 | | |
| BM (30°-60°) | 2137.3 | 17.8 | B2/2500 | | |
| BH (60°-80°) | 3263.5 | 27.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 242.3 | 2.0 | | | 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° | 670.0 | 670.0 | 670.0 | 670.0 | 670.0 | 670.0 | 670.0 | 670.0 | 670.0 | 670.0 | 670.0 |
| 2.5° | 671.2 | 675.0 | 671.2 | 671.2 | 668.7 | 667.5 | 667.5 | 667.5 | 670.0 | 672.5 | 672.5 |
| 5° | 676.3 | 678.8 | 675.0 | 675.0 | 672.5 | 672.5 | 672.5 | 672.5 | 675.0 | 677.5 | 676.3 |
| 7.5° | 685.1 | 688.9 | 685.1 | 685.1 | 682.6 | 680.1 | 680.1 | 681.3 | 682.6 | 683.8 | 682.6 |
| 10° | 700.2 | 705.3 | 700.2 | 702.7 | 697.7 | 696.4 | 695.2 | 695.2 | 696.4 | 696.4 | 696.4 |
| 12.5° | 719.1 | 722.9 | 720.4 | 722.9 | 717.8 | 717.8 | 714.1 | 714.1 | 712.8 | 712.8 | 712.8 |
| 15° | 744.3 | 749.3 | 746.8 | 750.6 | 748.1 | 748.1 | 744.3 | 740.5 | 739.3 | 739.3 | 739.3 |
| 17.5° | 774.5 | 779.6 | 778.3 | 784.6 | 782.1 | 784.6 | 777.0 | 770.7 | 772.0 | 772.0 | 770.7 |
| 20° | 809.8 | 814.8 | 814.8 | 823.6 | 823.6 | 826.2 | 816.1 | 809.8 | 807.3 | 808.5 | 807.3 |
| 22.5° | 848.8 | 853.9 | 852.6 | 866.5 | 874.0 | 874.0 | 860.2 | 855.1 | 850.1 | 851.3 | 848.8 |
| 25° | 891.6 | 897.9 | 891.6 | 904.2 | 916.8 | 918.1 | 906.8 | 894.2 | 894.2 | 900.5 | 897.9 |
| 27.5° | 928.2 | 935.7 | 931.9 | 937.0 | 964.7 | 972.2 | 954.6 | 940.8 | 943.3 | 948.3 | 944.5 |
| 30° | 972.2 | 978.5 | 972.2 | 976.0 | 1002.5 | 1027.7 | 994.9 | 991.1 | 996.2 | 1001.2 | 1001.2 |
| 32.5° | 1028.9 | 1036.5 | 1025.1 | 1028.9 | 1037.7 | 1076.8 | 1047.8 | 1052.8 | 1064.2 | 1075.5 | 1075.5 |
| 35° | 1095.7 | 1103.2 | 1091.9 | 1091.9 | 1095.7 | 1128.4 | 1119.6 | 1134.7 | 1157.4 | 1181.3 | 1186.3 |
| 37.5° | 1180.0 | 1183.8 | 1171.2 | 1166.2 | 1173.7 | 1200.2 | 1212.8 | 1246.8 | 1283.3 | 1327.4 | 1334.9 |
| 40° | 1294.6 | 1299.7 | 1282.0 | 1277.0 | 1282.0 | 1319.8 | 1355.1 | 1415.5 | 1465.9 | 1512.5 | 1517.5 |
| 42.5° | 1464.7 | 1479.8 | 1462.1 | 1445.8 | 1445.8 | 1479.8 | 1528.9 | 1601.9 | 1666.2 | 1696.4 | 1703.9 |
| 45° | 1652.3 | 1666.2 | 1628.4 | 1607.0 | 1598.1 | 1625.9 | 1680.0 | 1765.6 | 1826.1 | 1875.2 | 1871.4 |
| 47.5° | 1875.2 | 1870.2 | 1834.9 | 1797.1 | 1769.4 | 1787.1 | 1837.4 | 1911.7 | 1977.2 | 2021.3 | 2022.6 |
| 50° | 2124.6 | 2123.3 | 2076.7 | 2002.4 | 1949.5 | 1957.1 | 1991.1 | 2070.4 | 2135.9 | 2177.5 | 2187.5 |
| 52.5° | 2390.3 | 2381.5 | 2319.8 | 2234.1 | 2154.8 | 2129.6 | 2143.5 | 2214.0 | 2284.5 | 2332.4 | 2332.4 |
| 55° | 2656.0 | 2644.7 | 2593.1 | 2479.7 | 2385.3 | 2317.3 | 2307.2 | 2377.7 | 2458.3 | 2516.2 | 2520.0 |
| 57.5° | 2930.6 | 2933.1 | 2877.7 | 2780.7 | 2635.9 | 2531.3 | 2503.6 | 2584.2 | 2669.9 | 2722.8 | 2736.6 |
| 60° | 3210.2 | 3207.6 | 3164.8 | 3096.8 | 2952.0 | 2816.0 | 2770.6 | 2817.2 | 2925.5 | 2967.1 | 2983.5 |
| 62.5° | 3566.6 | 3575.4 | 3512.4 | 3464.5 | 3327.3 | 3196.3 | 3110.7 | 3156.0 | 3263.0 | 3321.0 | 3322.2 |
| 65° | 3759.2 | 3776.9 | 3804.6 | 3891.5 | 3846.1 | 3712.6 | 3604.3 | 3551.4 | 3518.7 | 3499.8 | 3488.5 |
| 67.5° | 3650.9 | 3652.2 | 3771.8 | 3993.5 | 4255.4 | 4341.1 | 3928.0 | 3557.7 | 3421.7 | 3383.9 | 3373.9 |
| 70° | 3372.6 | 3380.2 | 3543.9 | 3910.4 | 4412.9 | 4489.7 | 4045.1 | 3414.2 | 3206.4 | 3085.5 | 3084.2 |
| 72.5° | 2818.5 | 2910.4 | 3125.8 | 3668.6 | 4310.8 | 4302.0 | 3857.5 | 3182.4 | 2855.0 | 2735.4 | 2721.5 |
| 75° | 2230.4 | 2256.8 | 2555.3 | 3166.1 | 3933.0 | 4006.1 | 3584.2 | 2766.9 | 2386.5 | 2229.1 | 2220.3 |
| 77.5° | 1425.6 | 1449.5 | 1778.2 | 2457.0 | 3323.5 | 3501.1 | 3057.8 | 2210.2 | 1784.5 | 1564.1 | 1557.8 |
| 80° | 696.4 | 764.4 | 1013.8 | 1599.4 | 2399.1 | 2566.6 | 2151.0 | 1413.0 | 1056.6 | 848.8 | 831.2 |
| 82.5° | 285.9 | 301.0 | 493.7 | 885.3 | 1408.0 | 1521.3 | 1099.4 | 657.4 | 390.4 | 258.2 | 239.3 |
| 85° | 85.6 | 86.9 | 151.1 | 316.1 | 593.2 | 429.4 | 221.7 | 94.5 | 41.6 | 30.2 | 29.0 |
| 87.5° | 15.1 | 16.4 | 27.7 | 37.8 | 36.5 | 16.4 | 15.1 | 13.9 | 13.9 | 13.9 | 15.1 |
| 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)