

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: P509451

Luminaire Tested: **VERD-G-CA2-100-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-730-U-T1
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15910 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

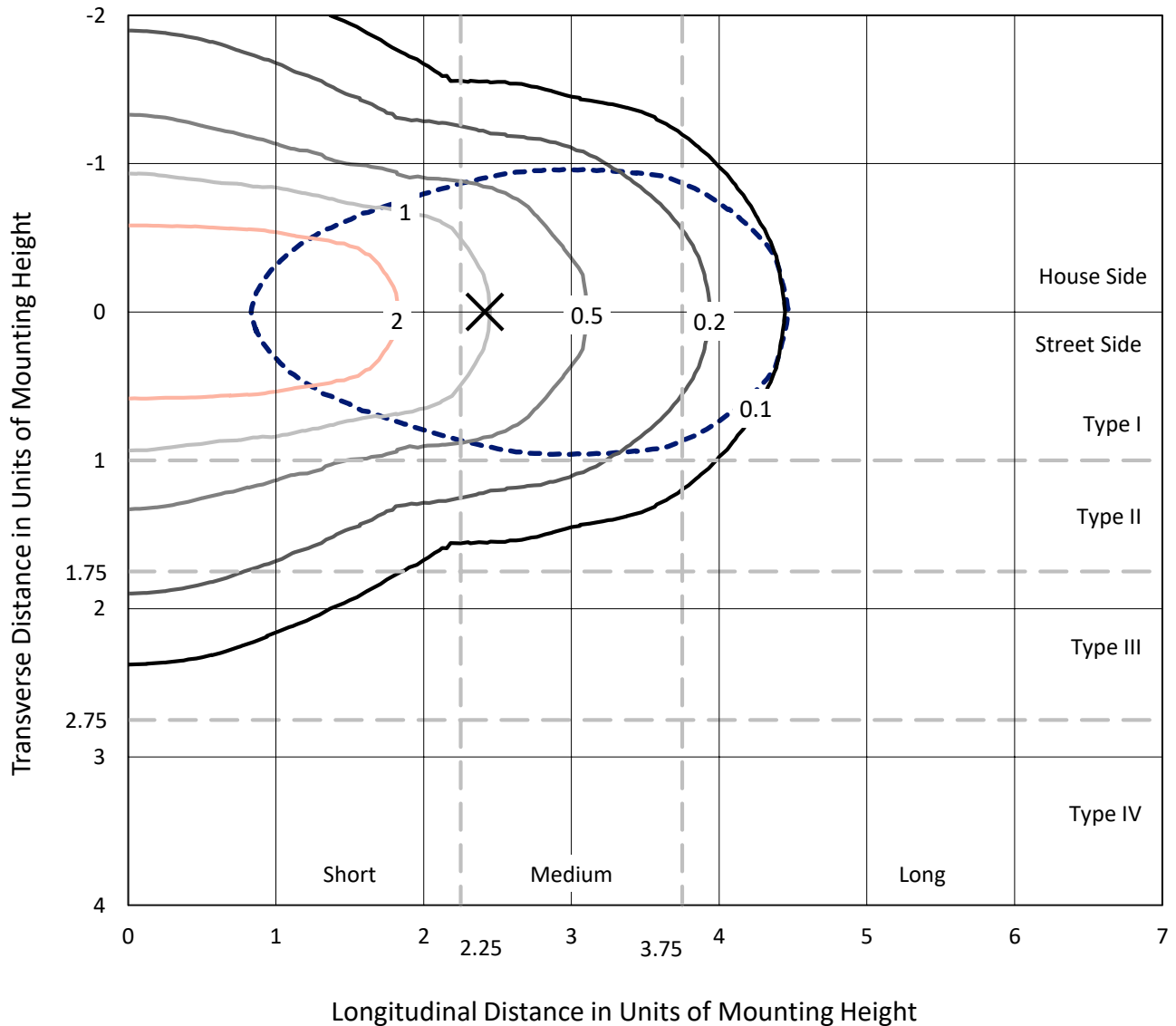
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

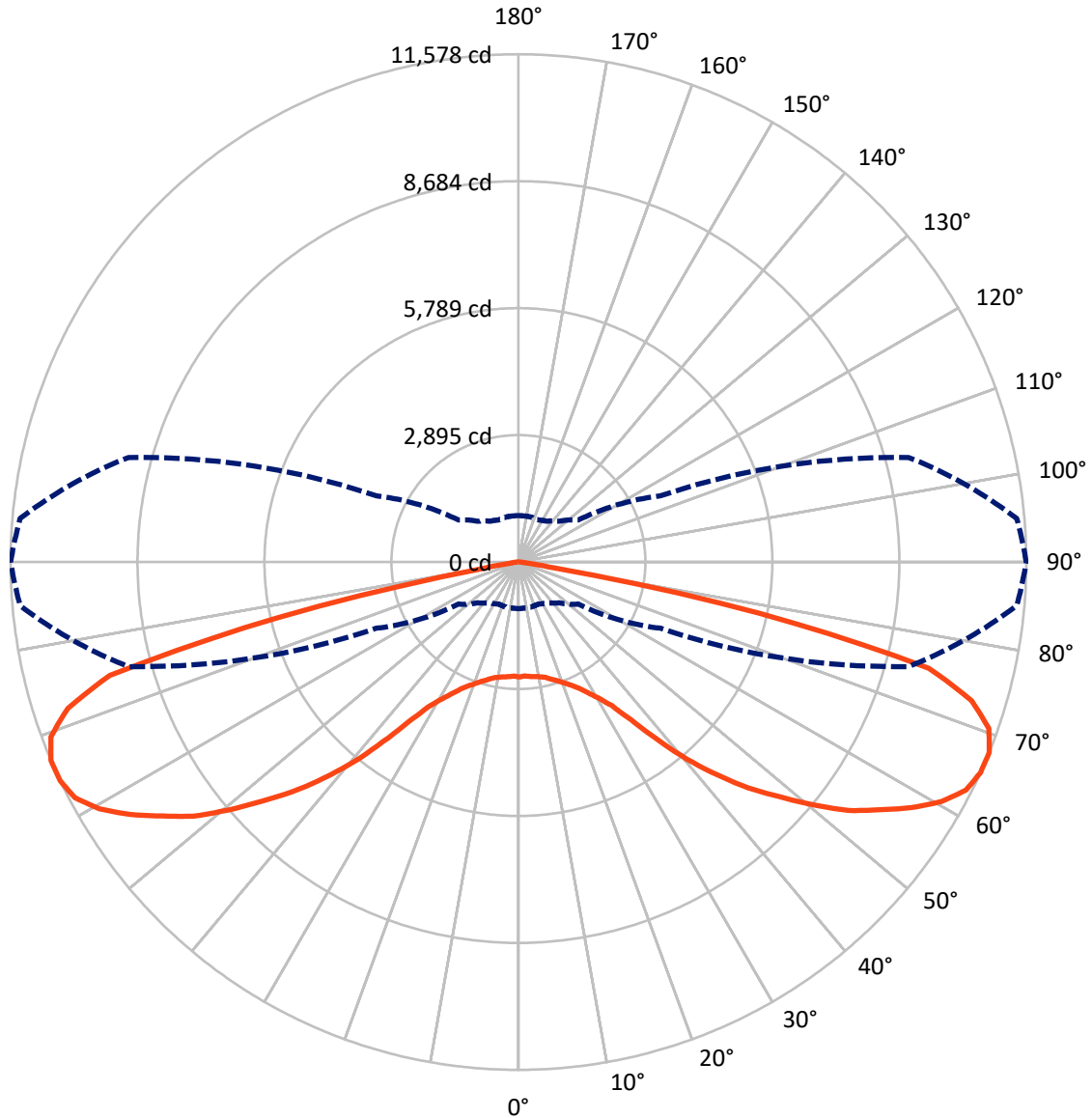
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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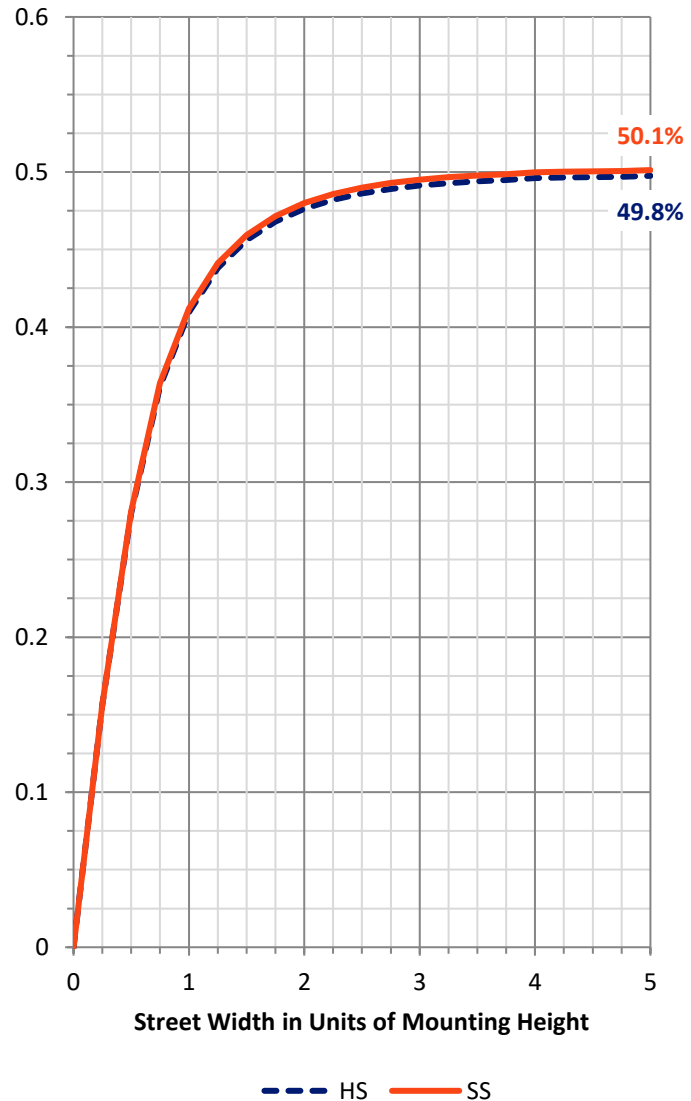
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7955.0 | 0.0 | 7955.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7955.0 | 0.0 | 7955.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15910.0 | 0.0 | 15910.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 250.4 | 1.6 |
| 10°-20° | 745.6 | 4.7 |
| 20°-30° | 1227.6 | 7.7 |
| 30°-40° | 1793.0 | 11.3 |
| 40°-50° | 2616.0 | 16.4 |
| 50°-60° | 3378.5 | 21.2 |
| 60°-70° | 3600.0 | 22.6 |
| 70°-80° | 2196.8 | 13.8 |
| 80°-90° | 102.0 | 0.6 |
| 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° | 15910.0 | 100.0 |
| 0°-180° | 15910.0 | 100.0 |



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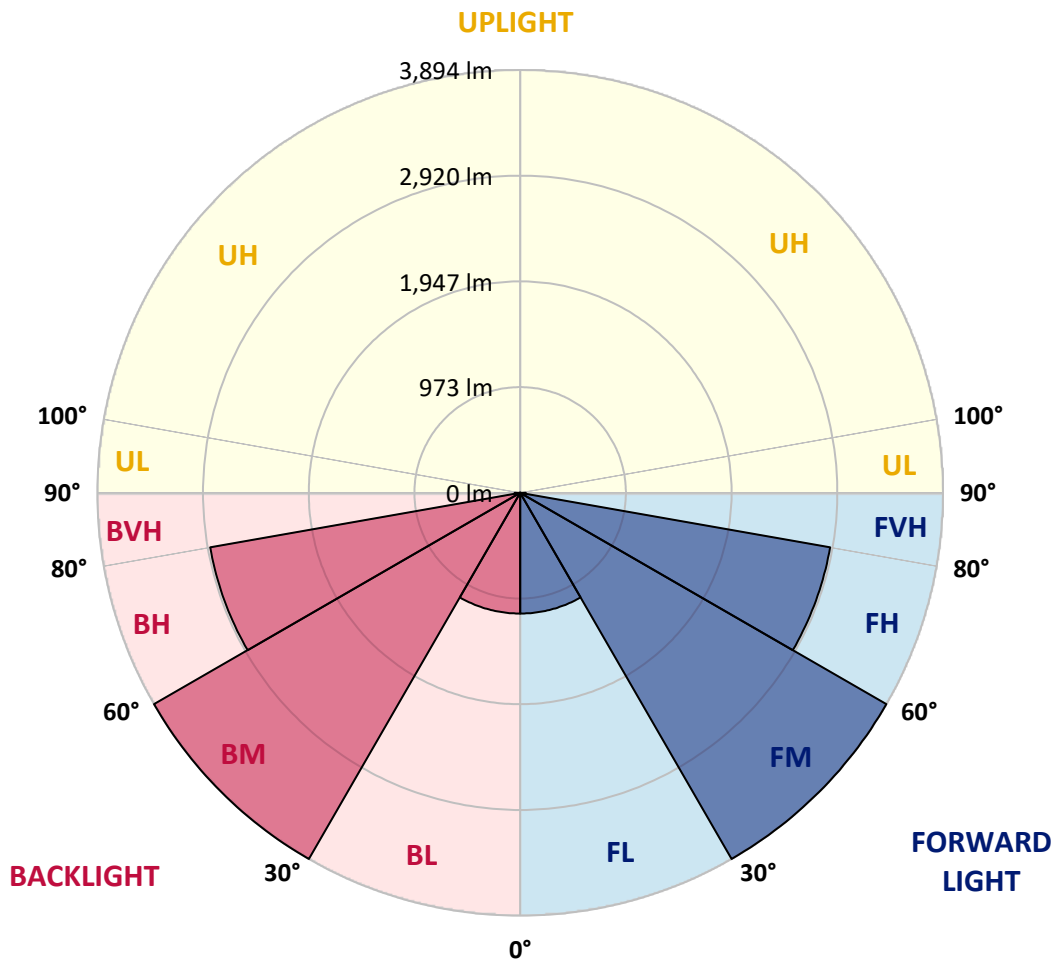
CATALOG NUMBER: VERD-G-CA2-100-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1111.8 | 7.0 | | | |
| FM (30°-60°) | 3893.8 | 24.5 | | | |
| FH (60°-80°) | 2898.4 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 51.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1111.8 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 3893.8 | 24.5 | B3/5000 | | |
| BH (60°-80°) | 2898.4 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 51.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2620.8 | 2620.8 | 2620.8 | 2620.8 | 2620.8 | 2620.8 | 2620.8 | 2620.8 | 2620.8 | 2620.8 | 2620.8 |
| 2.5° | 2641.4 | 2647.3 | 2638.5 | 2627.7 | 2638.5 | 2624.7 | 2606.1 | 2607.0 | 2604.1 | 2607.0 | 2600.2 |
| 5° | 2637.5 | 2637.5 | 2626.7 | 2608.0 | 2631.6 | 2644.4 | 2626.7 | 2619.8 | 2621.8 | 2625.7 | 2619.8 |
| 7.5° | 2623.7 | 2616.9 | 2602.1 | 2604.1 | 2620.8 | 2614.9 | 2633.6 | 2641.4 | 2655.2 | 2648.3 | 2636.5 |
| 10° | 2577.6 | 2593.3 | 2577.6 | 2571.7 | 2611.9 | 2607.0 | 2618.8 | 2637.5 | 2661.0 | 2656.1 | 2660.1 |
| 12.5° | 2551.1 | 2561.9 | 2554.0 | 2547.1 | 2582.5 | 2619.8 | 2636.5 | 2661.0 | 2689.5 | 2693.5 | 2696.4 |
| 15° | 2518.7 | 2531.4 | 2516.7 | 2522.6 | 2581.5 | 2629.6 | 2669.9 | 2708.2 | 2756.3 | 2762.2 | 2766.1 |
| 17.5° | 2463.7 | 2478.4 | 2455.8 | 2493.1 | 2566.8 | 2637.5 | 2709.2 | 2768.1 | 2819.1 | 2838.8 | 2838.8 |
| 20° | 2381.2 | 2392.0 | 2394.0 | 2429.3 | 2526.5 | 2641.4 | 2740.6 | 2822.1 | 2889.8 | 2927.2 | 2938.0 |
| 22.5° | 2260.4 | 2274.2 | 2298.7 | 2364.5 | 2492.2 | 2629.6 | 2767.1 | 2881.0 | 2992.0 | 3028.3 | 3043.0 |
| 25° | 2147.5 | 2155.3 | 2199.5 | 2300.7 | 2453.9 | 2628.6 | 2803.4 | 2968.4 | 3101.0 | 3175.6 | 3181.5 |
| 27.5° | 2038.5 | 2041.4 | 2108.2 | 2225.1 | 2409.7 | 2637.5 | 2848.6 | 3065.6 | 3265.9 | 3348.4 | 3375.9 |
| 30° | 1930.5 | 1939.3 | 1999.2 | 2148.5 | 2372.4 | 2633.6 | 2887.9 | 3170.7 | 3429.9 | 3571.3 | 3598.8 |
| 32.5° | 1835.2 | 1849.0 | 1916.7 | 2061.1 | 2326.2 | 2636.5 | 2947.8 | 3311.1 | 3647.9 | 3884.5 | 3898.3 |
| 35° | 1753.7 | 1764.5 | 1832.3 | 1978.6 | 2279.1 | 2647.3 | 3026.3 | 3492.7 | 3992.6 | 4342.1 | 4409.9 |
| 37.5° | 1685.0 | 1693.8 | 1765.5 | 1899.1 | 2224.1 | 2645.3 | 3121.6 | 3707.8 | 4421.7 | 4995.1 | 5123.7 |
| 40° | 1640.8 | 1650.6 | 1698.7 | 1830.3 | 2156.3 | 2631.6 | 3216.8 | 3977.8 | 4898.9 | 5761.0 | 5905.4 |
| 42.5° | 1597.6 | 1609.4 | 1643.8 | 1766.5 | 2076.8 | 2595.3 | 3312.1 | 4229.2 | 5406.5 | 6484.7 | 6627.1 |
| 45° | 1556.4 | 1560.3 | 1604.5 | 1706.6 | 1988.4 | 2545.2 | 3405.4 | 4454.1 | 5917.1 | 7201.5 | 7339.0 |
| 47.5° | 1521.0 | 1521.0 | 1554.4 | 1652.6 | 1908.9 | 2469.6 | 3441.7 | 4677.9 | 6396.3 | 7903.6 | 7988.0 |
| 50° | 1499.4 | 1488.6 | 1509.2 | 1586.8 | 1820.5 | 2345.8 | 3420.1 | 4853.7 | 6957.0 | 8577.2 | 8702.9 |
| 52.5° | 1446.4 | 1442.5 | 1458.2 | 1531.8 | 1747.8 | 2225.1 | 3321.9 | 4941.1 | 7559.9 | 9157.5 | 9411.9 |
| 55° | 1391.4 | 1390.4 | 1405.2 | 1466.0 | 1664.4 | 2078.8 | 3093.1 | 4966.6 | 8127.5 | 9798.7 | 9972.5 |
| 57.5° | 1336.4 | 1328.6 | 1345.3 | 1406.1 | 1575.0 | 1953.1 | 2842.7 | 4846.8 | 8681.3 | 10419.3 | 10563.7 |
| 60° | 1290.3 | 1284.4 | 1294.2 | 1339.4 | 1483.7 | 1795.0 | 2544.2 | 4677.9 | 9173.2 | 10917.2 | 11084.1 |
| 62.5° | 1224.5 | 1225.5 | 1231.3 | 1262.8 | 1385.5 | 1645.7 | 2247.7 | 4379.4 | 9475.7 | 11291.3 | 11450.4 |
| 65° | 1145.9 | 1143.0 | 1155.7 | 1170.5 | 1261.8 | 1482.7 | 1947.2 | 3947.4 | 9544.4 | 11472.0 | 11575.1 |
| 67.5° | 1061.5 | 1057.5 | 1064.4 | 1058.5 | 1135.1 | 1313.8 | 1668.3 | 3569.3 | 9207.6 | 11404.2 | 11578.0 |
| 70° | 957.4 | 957.4 | 953.5 | 932.8 | 987.8 | 1108.6 | 1418.9 | 3243.3 | 8291.5 | 11188.2 | 11376.7 |
| 72.5° | 782.6 | 784.6 | 800.3 | 785.5 | 818.0 | 896.5 | 1193.1 | 2871.2 | 6808.7 | 10506.7 | 10801.3 |
| 75° | 481.1 | 481.1 | 493.9 | 546.9 | 638.3 | 681.5 | 966.2 | 2408.7 | 5518.5 | 8985.7 | 9664.2 |
| 77.5° | 247.4 | 249.4 | 256.3 | 274.0 | 290.7 | 334.8 | 543.0 | 1617.2 | 3500.6 | 5310.3 | 5614.7 |
| 80° | 70.7 | 73.6 | 165.0 | 185.6 | 196.4 | 204.2 | 248.4 | 548.9 | 894.5 | 868.0 | 819.9 |
| 82.5° | 47.1 | 49.1 | 96.2 | 112.9 | 103.1 | 84.4 | 103.1 | 161.0 | 134.5 | 168.9 | 183.6 |
| 85° | 24.5 | 26.5 | 40.3 | 44.2 | 44.2 | 51.1 | 47.1 | 48.1 | 54.0 | 103.1 | 114.9 |
| 87.5° | 11.8 | 12.8 | 16.7 | 20.6 | 21.6 | 24.5 | 23.6 | 24.5 | 27.5 | 42.2 | 46.2 |
| 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)