

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: P509419

Luminaire Tested: **VERD-CA2-90-750-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-750-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1250mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14038 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

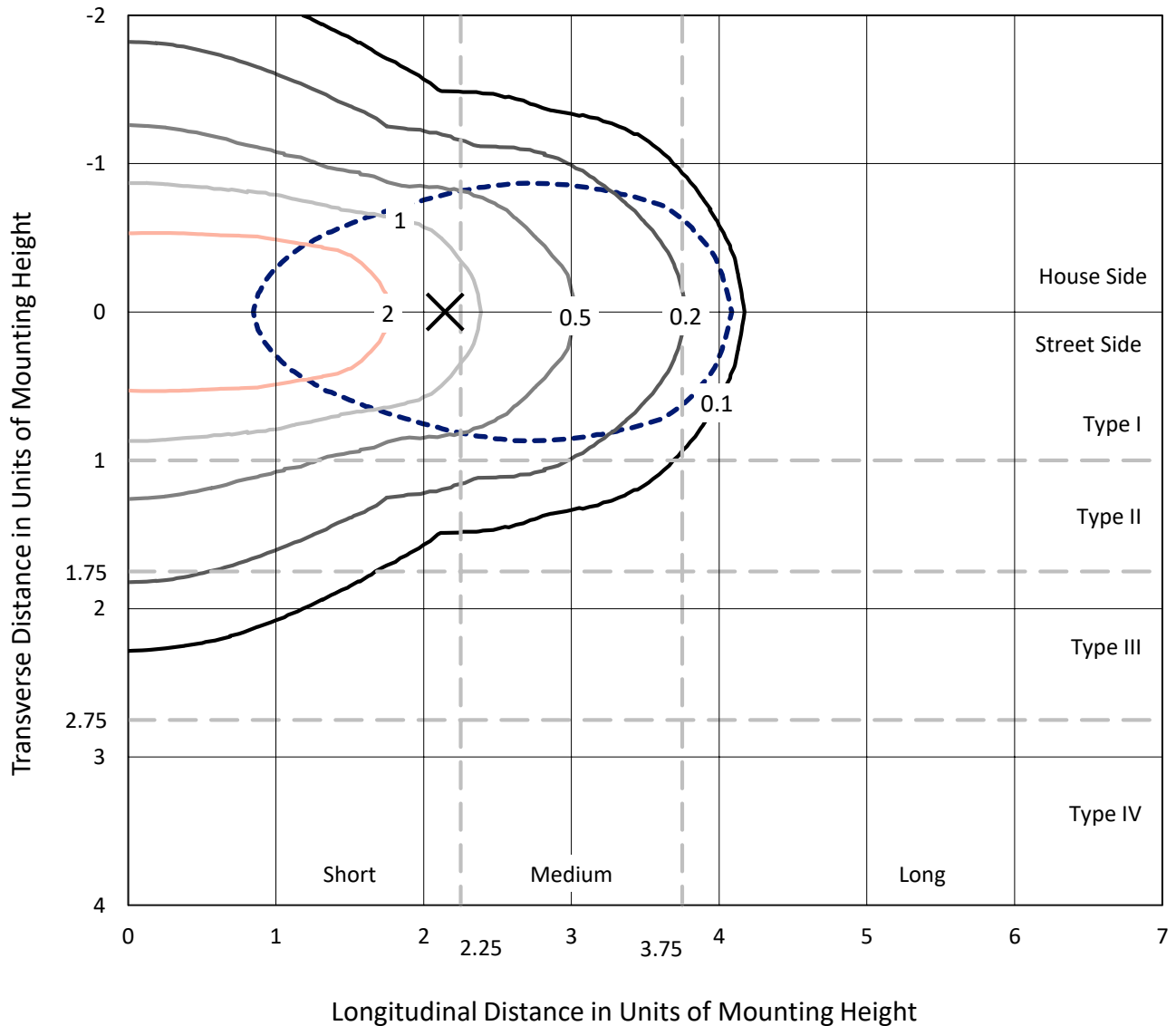
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

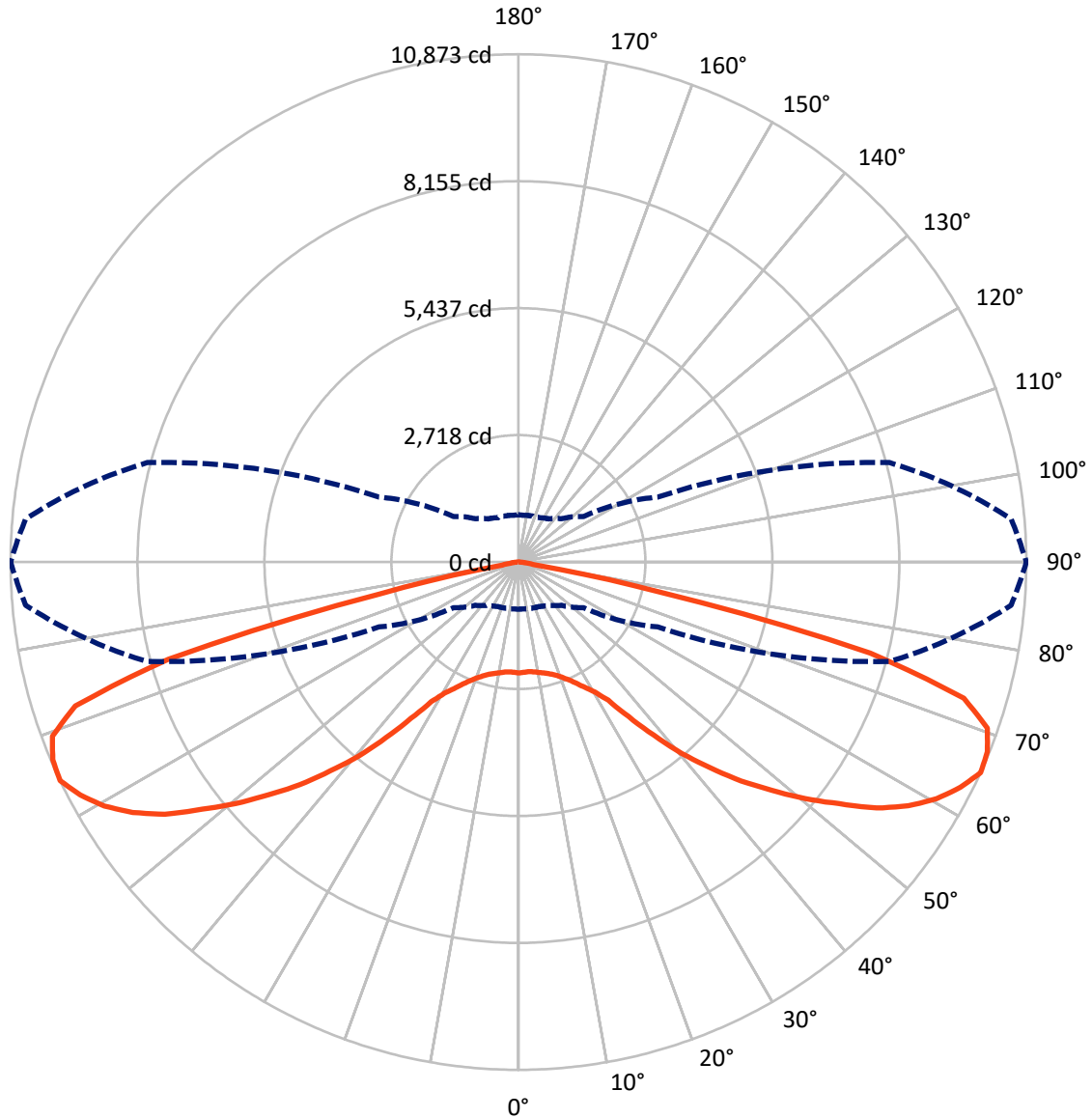
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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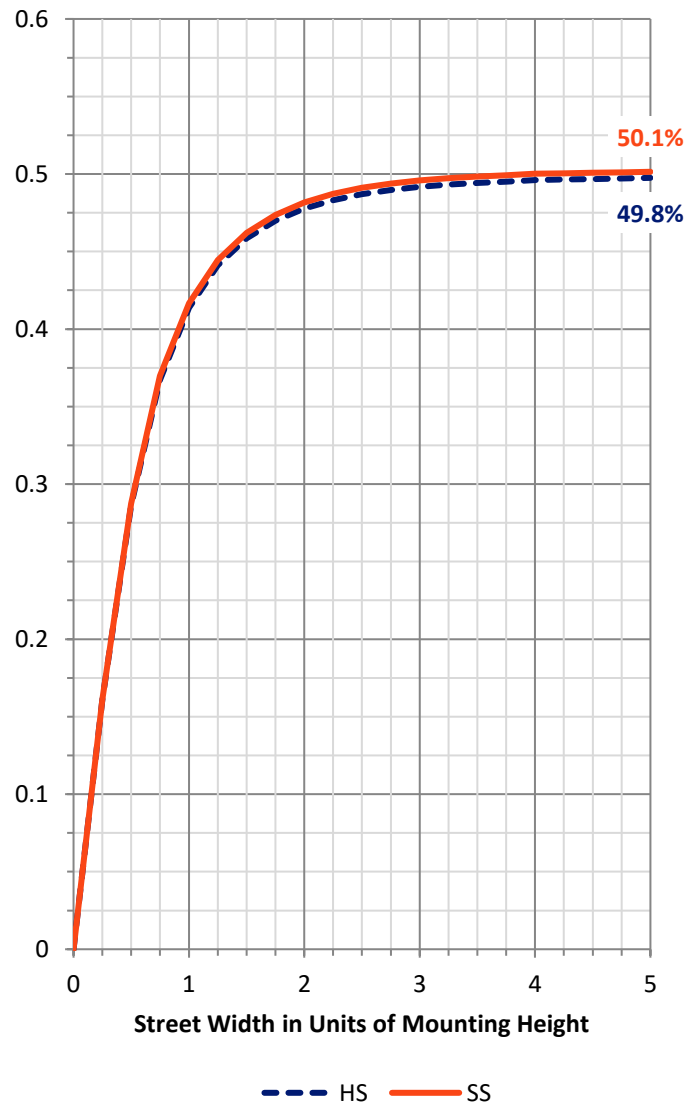
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7019.0 | 0.0 | 7019.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7019.0 | 0.0 | 7019.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14038.0 | 0.0 | 14038.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 225.3 | 1.6 |
| 10°-20° | 671.0 | 4.8 |
| 20°-30° | 1108.1 | 7.9 |
| 30°-40° | 1635.6 | 11.7 |
| 40°-50° | 2379.8 | 17.0 |
| 50°-60° | 3046.3 | 21.7 |
| 60°-70° | 3185.6 | 22.7 |
| 70°-80° | 1718.6 | 12.2 |
| 80°-90° | 67.7 | 0.5 |
| 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° | 14038.0 | 100.0 |
| 0°-180° | 14038.0 | 100.0 |



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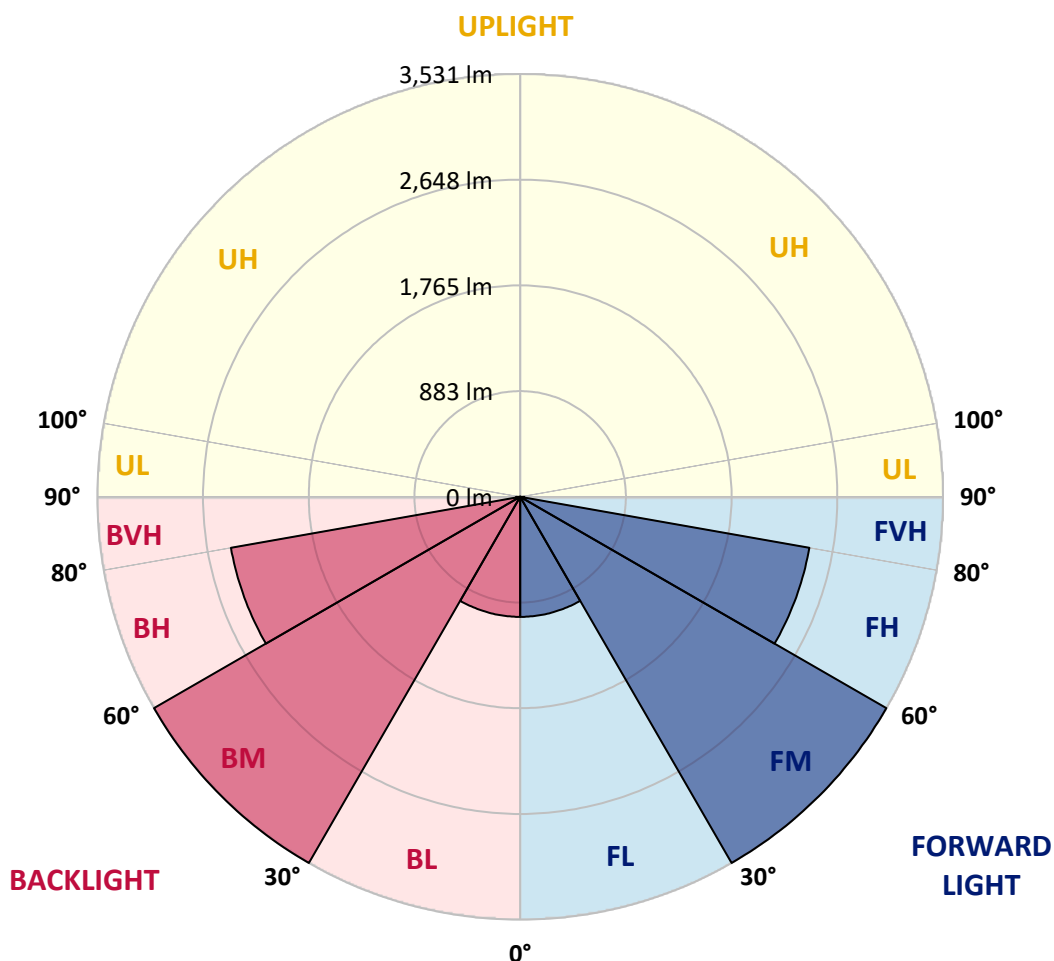
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1002.2 | 7.1 | | | |
| FM | (30°-60°) | 3530.8 | 25.2 | | | |
| FH | (60°-80°) | 2452.1 | 17.5 | | | G2/5000 |
| FVH | (80°-90°) | 33.8 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 1002.2 | 7.1 | B3/2500 | | |
| BM | (30°-60°) | 3530.8 | 25.2 | B3/5000 | | |
| BH | (60°-80°) | 2452.1 | 17.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 33.8 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2375.1 | 2375.1 | 2375.1 | 2375.1 | 2375.1 | 2375.1 | 2375.1 | 2375.1 | 2375.1 | 2375.1 | 2375.1 |
| 2.5° | 2362.3 | 2370.9 | 2375.1 | 2373.7 | 2365.1 | 2365.1 | 2365.1 | 2365.1 | 2362.3 | 2360.8 | 2362.3 |
| 5° | 2345.1 | 2352.3 | 2360.8 | 2356.6 | 2352.3 | 2356.6 | 2356.6 | 2356.6 | 2358.0 | 2358.0 | 2358.0 |
| 7.5° | 2330.8 | 2340.8 | 2345.1 | 2350.8 | 2340.8 | 2352.3 | 2369.4 | 2372.3 | 2373.7 | 2373.7 | 2373.7 |
| 10° | 2317.9 | 2326.5 | 2338.0 | 2336.5 | 2340.8 | 2358.0 | 2376.6 | 2398.0 | 2399.5 | 2403.7 | 2403.7 |
| 12.5° | 2286.5 | 2297.9 | 2310.8 | 2319.4 | 2325.1 | 2365.1 | 2383.7 | 2410.9 | 2432.3 | 2435.2 | 2436.6 |
| 15° | 2247.9 | 2255.0 | 2269.3 | 2289.3 | 2319.4 | 2362.3 | 2403.7 | 2438.1 | 2472.4 | 2481.0 | 2481.0 |
| 17.5° | 2189.2 | 2197.8 | 2217.8 | 2246.4 | 2300.8 | 2370.9 | 2436.6 | 2482.4 | 2525.3 | 2538.2 | 2541.0 |
| 20° | 2109.2 | 2124.9 | 2152.1 | 2202.1 | 2275.0 | 2376.6 | 2472.4 | 2541.0 | 2596.8 | 2625.4 | 2626.8 |
| 22.5° | 2013.4 | 2024.8 | 2073.4 | 2144.9 | 2247.9 | 2376.6 | 2509.6 | 2609.7 | 2686.9 | 2731.2 | 2735.5 |
| 25° | 1909.0 | 1919.0 | 1981.9 | 2082.0 | 2213.6 | 2378.0 | 2546.7 | 2685.4 | 2805.6 | 2864.2 | 2869.9 |
| 27.5° | 1814.6 | 1824.6 | 1896.1 | 2017.7 | 2183.5 | 2382.3 | 2586.8 | 2778.4 | 2945.7 | 3024.3 | 3040.1 |
| 30° | 1727.4 | 1731.7 | 1813.2 | 1947.6 | 2150.6 | 2385.2 | 2635.4 | 2879.9 | 3093.0 | 3220.2 | 3228.8 |
| 32.5° | 1645.9 | 1657.3 | 1733.1 | 1877.5 | 2112.0 | 2389.4 | 2699.7 | 3024.3 | 3328.9 | 3520.5 | 3527.7 |
| 35° | 1572.9 | 1583.0 | 1658.7 | 1806.0 | 2060.6 | 2400.9 | 2769.8 | 3208.8 | 3670.7 | 4005.3 | 4061.0 |
| 37.5° | 1514.3 | 1524.3 | 1591.5 | 1730.2 | 2007.6 | 2398.0 | 2861.3 | 3433.3 | 4088.2 | 4617.3 | 4701.7 |
| 40° | 1467.1 | 1478.6 | 1532.9 | 1658.7 | 1937.6 | 2376.6 | 2957.1 | 3676.4 | 4542.9 | 5262.2 | 5388.0 |
| 42.5° | 1427.1 | 1437.1 | 1484.3 | 1595.8 | 1861.8 | 2342.3 | 3042.9 | 3896.6 | 4981.9 | 5918.5 | 6018.6 |
| 45° | 1381.3 | 1392.8 | 1438.5 | 1542.9 | 1791.7 | 2289.3 | 3100.1 | 4112.5 | 5426.6 | 6542.0 | 6685.0 |
| 47.5° | 1351.3 | 1358.4 | 1394.2 | 1491.4 | 1713.1 | 2206.4 | 3110.1 | 4265.5 | 5902.8 | 7201.2 | 7299.9 |
| 50° | 1324.1 | 1322.7 | 1354.2 | 1440.0 | 1640.1 | 2100.6 | 3057.2 | 4384.2 | 6356.1 | 7816.1 | 7963.4 |
| 52.5° | 1285.5 | 1287.0 | 1312.7 | 1389.9 | 1568.7 | 1977.6 | 2931.4 | 4414.2 | 6822.3 | 8432.4 | 8592.6 |
| 55° | 1239.8 | 1244.1 | 1268.4 | 1332.7 | 1495.7 | 1856.1 | 2716.9 | 4359.9 | 7324.2 | 9041.6 | 9298.9 |
| 57.5° | 1195.4 | 1192.6 | 1216.9 | 1274.1 | 1417.1 | 1733.1 | 2472.4 | 4221.2 | 7806.1 | 9682.2 | 9843.8 |
| 60° | 1144.0 | 1146.8 | 1164.0 | 1211.2 | 1334.1 | 1603.0 | 2199.3 | 3981.0 | 8130.7 | 10176.9 | 10289.9 |
| 62.5° | 1085.3 | 1085.3 | 1101.1 | 1136.8 | 1238.3 | 1461.4 | 1937.6 | 3663.5 | 8313.7 | 10434.3 | 10621.6 |
| 65° | 1011.0 | 1006.7 | 1023.8 | 1049.6 | 1126.8 | 1309.8 | 1698.8 | 3290.3 | 8223.6 | 10590.2 | 10873.3 |
| 67.5° | 930.9 | 922.3 | 930.9 | 942.3 | 999.5 | 1146.8 | 1457.1 | 2952.8 | 7803.2 | 10490.1 | 10830.4 |
| 70° | 826.5 | 815.1 | 819.4 | 819.4 | 858.0 | 956.6 | 1221.2 | 2666.9 | 6843.7 | 10166.9 | 10650.2 |
| 72.5° | 676.4 | 672.1 | 679.2 | 673.5 | 702.1 | 767.9 | 1012.4 | 2319.4 | 5576.8 | 9391.9 | 9972.4 |
| 75° | 411.8 | 417.5 | 440.4 | 480.5 | 506.2 | 556.2 | 740.7 | 1834.6 | 4222.6 | 7085.4 | 7778.9 |
| 77.5° | 171.6 | 191.6 | 211.6 | 218.8 | 247.4 | 241.7 | 334.6 | 832.2 | 1710.2 | 2821.3 | 3054.4 |
| 80° | 57.2 | 58.6 | 130.1 | 144.4 | 158.7 | 130.1 | 127.3 | 278.8 | 489.0 | 413.3 | 347.5 |
| 82.5° | 34.3 | 37.2 | 71.5 | 77.2 | 67.2 | 70.1 | 74.4 | 94.4 | 91.5 | 148.7 | 168.7 |
| 85° | 17.2 | 18.6 | 31.5 | 35.7 | 35.7 | 42.9 | 42.9 | 45.8 | 51.5 | 90.1 | 97.2 |
| 87.5° | 4.3 | 4.3 | 8.6 | 12.9 | 14.3 | 17.2 | 17.2 | 20.0 | 22.9 | 32.9 | 38.6 |
| 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)