

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: P509307

Luminaire Tested: **VERD-CA2-70-730-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509307
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-CA2-70-730-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 980mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10991 lumens
Efficiency: N/A
Efficacy: 149.3 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

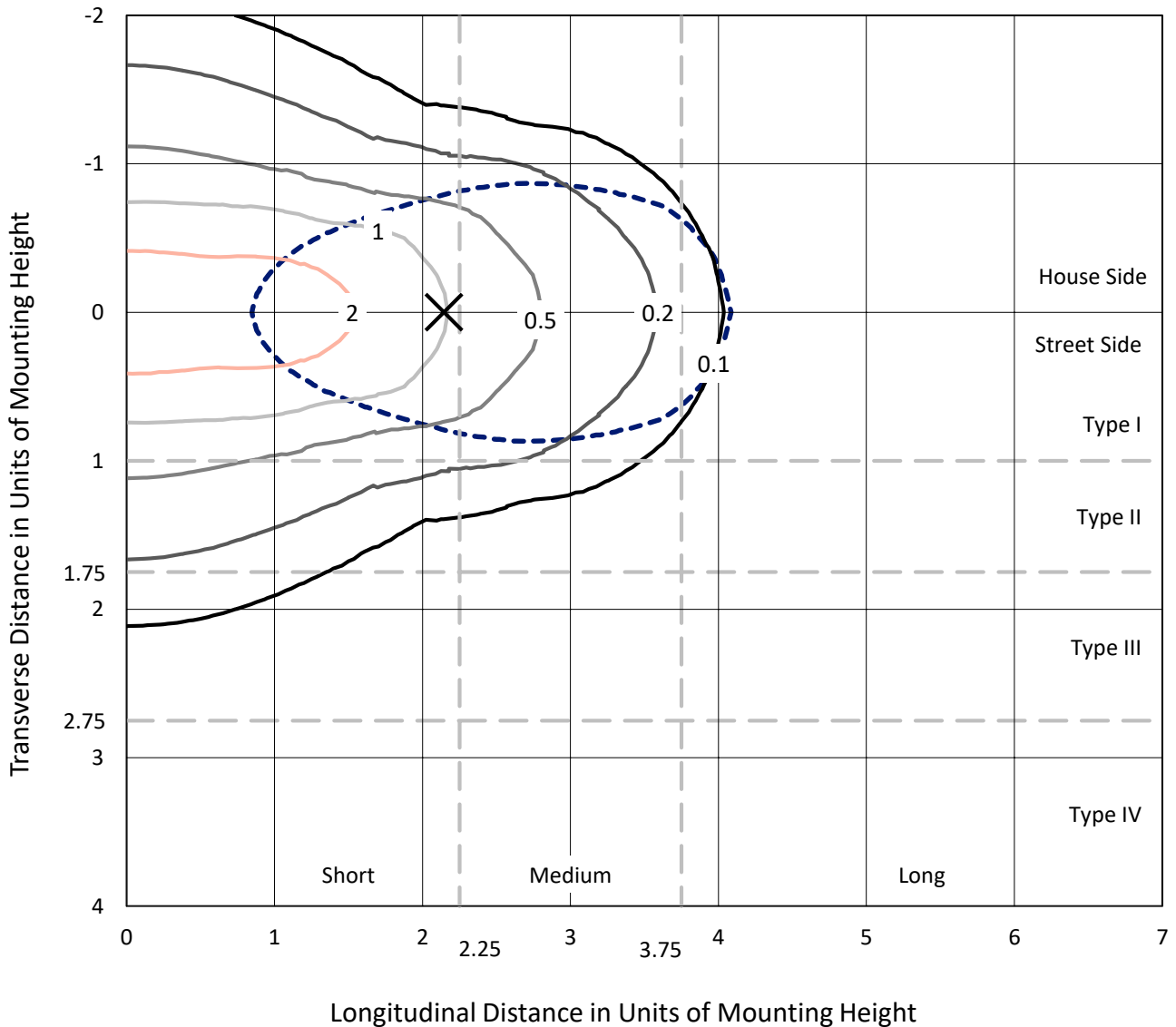
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

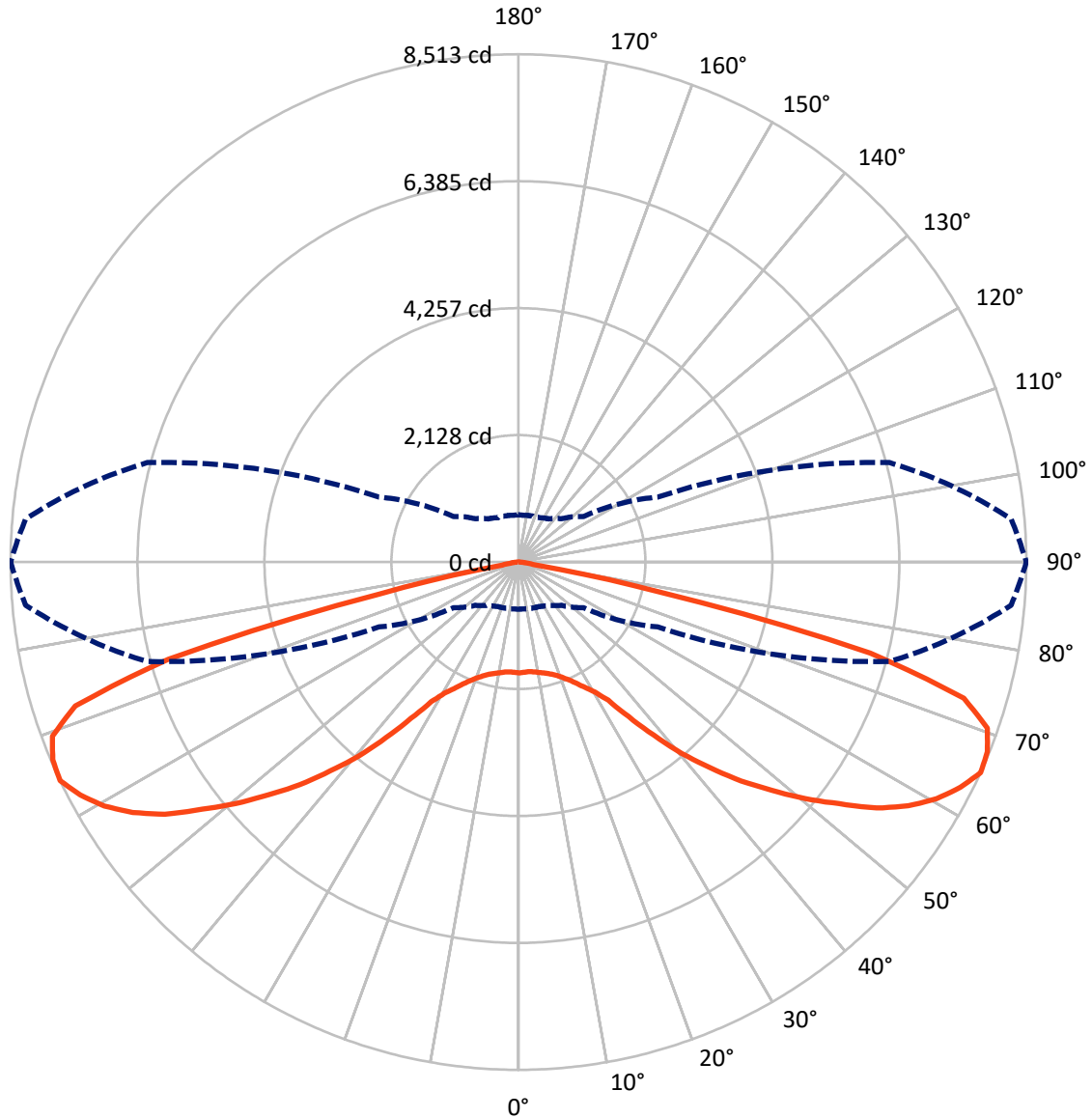
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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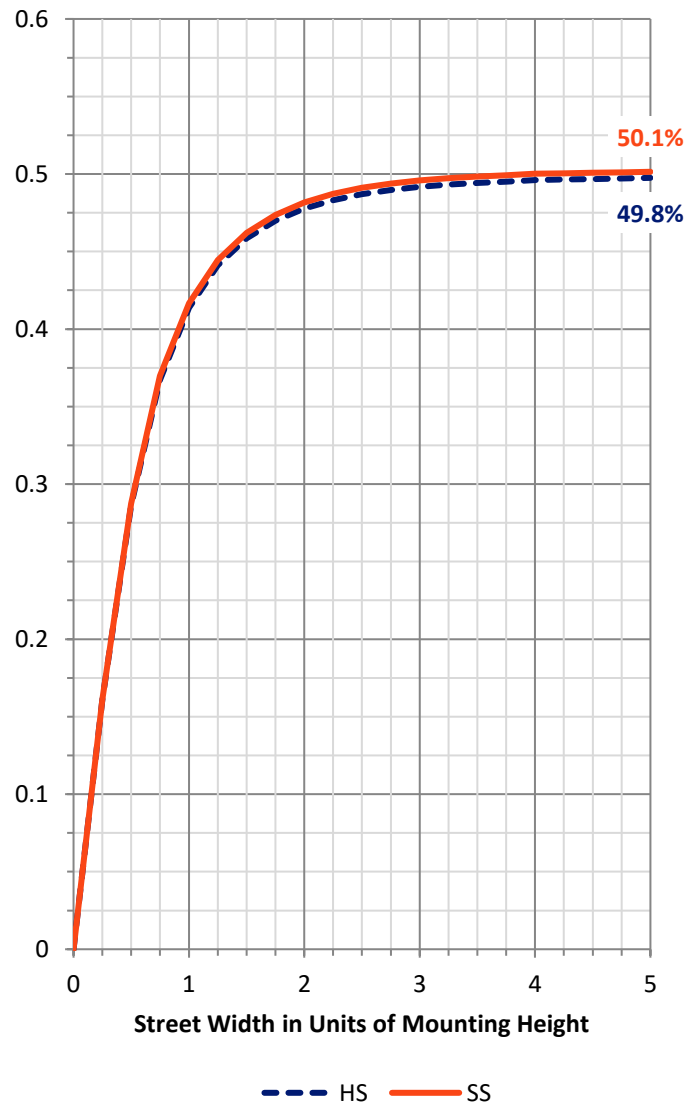
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5495.5 | 0.0 | 5495.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5495.5 | 0.0 | 5495.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10991.0 | 0.0 | 10991.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 176.4 | 1.6 |
| 10°-20° | 525.4 | 4.8 |
| 20°-30° | 867.6 | 7.9 |
| 30°-40° | 1280.6 | 11.7 |
| 40°-50° | 1863.2 | 17.0 |
| 50°-60° | 2385.1 | 21.7 |
| 60°-70° | 2494.2 | 22.7 |
| 70°-80° | 1345.6 | 12.2 |
| 80°-90° | 53.0 | 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° | 10991.0 | 100.0 |
| 0°-180° | 10991.0 | 100.0 |



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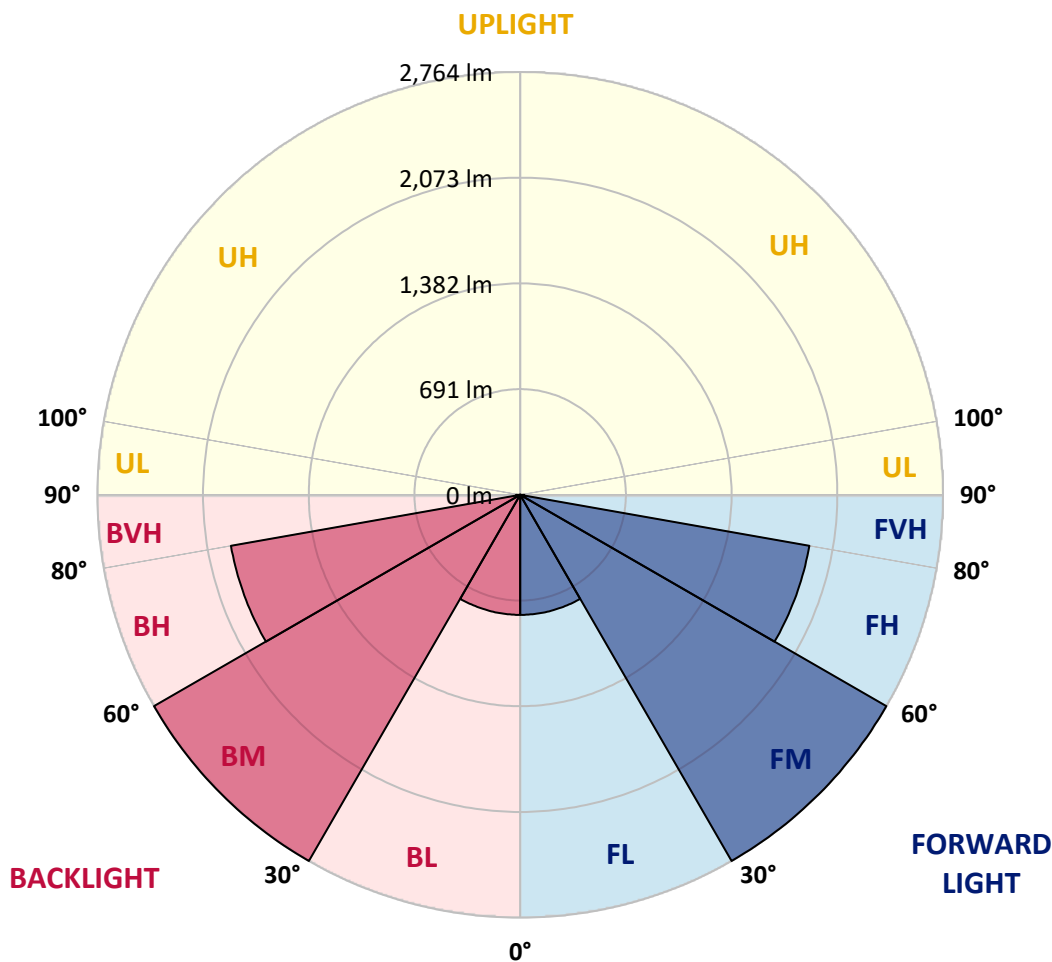
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 784.7 | 7.1 | | | |
| FM | (30°-60°) | 2764.4 | 25.2 | | | |
| FH | (60°-80°) | 1919.9 | 17.5 | | | G2/5000 |
| FVH | (80°-90°) | 26.5 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 784.7 | 7.1 | B2/1000 | | |
| BM | (30°-60°) | 2764.4 | 25.2 | B3/5000 | | |
| BH | (60°-80°) | 1919.9 | 17.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 26.5 | 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° | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 |
| 2.5° | 1849.5 | 1856.2 | 1859.6 | 1858.5 | 1851.8 | 1851.8 | 1851.8 | 1851.8 | 1849.5 | 1848.4 | 1849.5 |
| 5° | 1836.1 | 1841.7 | 1848.4 | 1845.1 | 1841.7 | 1845.1 | 1845.1 | 1845.1 | 1846.2 | 1846.2 | 1846.2 |
| 7.5° | 1824.9 | 1832.7 | 1836.1 | 1840.6 | 1832.7 | 1841.7 | 1855.1 | 1857.4 | 1858.5 | 1858.5 | 1858.5 |
| 10° | 1814.8 | 1821.5 | 1830.5 | 1829.4 | 1832.7 | 1846.2 | 1860.7 | 1877.5 | 1878.6 | 1882.0 | 1882.0 |
| 12.5° | 1790.2 | 1799.2 | 1809.2 | 1815.9 | 1820.4 | 1851.8 | 1866.3 | 1887.6 | 1904.4 | 1906.6 | 1907.7 |
| 15° | 1760.0 | 1765.6 | 1776.8 | 1792.4 | 1815.9 | 1849.5 | 1882.0 | 1908.9 | 1935.7 | 1942.5 | 1942.5 |
| 17.5° | 1714.1 | 1720.8 | 1736.5 | 1758.8 | 1801.4 | 1856.2 | 1907.7 | 1943.6 | 1977.2 | 1987.2 | 1989.5 |
| 20° | 1651.4 | 1663.7 | 1685.0 | 1724.1 | 1781.2 | 1860.7 | 1935.7 | 1989.5 | 2033.1 | 2055.5 | 2056.7 |
| 22.5° | 1576.4 | 1585.3 | 1623.4 | 1679.4 | 1760.0 | 1860.7 | 1964.8 | 2043.2 | 2103.7 | 2138.4 | 2141.7 |
| 25° | 1494.6 | 1502.5 | 1551.7 | 1630.1 | 1733.1 | 1861.8 | 1994.0 | 2102.6 | 2196.6 | 2242.5 | 2247.0 |
| 27.5° | 1420.7 | 1428.6 | 1484.6 | 1579.7 | 1709.6 | 1865.2 | 2025.3 | 2175.3 | 2306.3 | 2367.9 | 2380.2 |
| 30° | 1352.4 | 1355.8 | 1419.6 | 1524.9 | 1683.8 | 1867.4 | 2063.4 | 2254.8 | 2421.6 | 2521.3 | 2528.0 |
| 32.5° | 1288.6 | 1297.6 | 1356.9 | 1470.0 | 1653.6 | 1870.8 | 2113.8 | 2367.9 | 2606.4 | 2756.4 | 2762.0 |
| 35° | 1231.5 | 1239.4 | 1298.7 | 1414.0 | 1613.3 | 1879.8 | 2168.6 | 2512.3 | 2873.9 | 3135.9 | 3179.6 |
| 37.5° | 1185.6 | 1193.5 | 1246.1 | 1354.7 | 1571.9 | 1877.5 | 2240.3 | 2688.1 | 3200.9 | 3615.1 | 3681.2 |
| 40° | 1148.7 | 1157.6 | 1200.2 | 1298.7 | 1517.0 | 1860.7 | 2315.3 | 2878.4 | 3556.9 | 4120.0 | 4218.5 |
| 42.5° | 1117.3 | 1125.2 | 1162.1 | 1249.4 | 1457.7 | 1833.9 | 2382.4 | 3050.8 | 3900.6 | 4633.9 | 4712.3 |
| 45° | 1081.5 | 1090.5 | 1126.3 | 1208.0 | 1402.8 | 1792.4 | 2427.2 | 3219.9 | 4248.8 | 5122.0 | 5234.0 |
| 47.5° | 1058.0 | 1063.6 | 1091.6 | 1167.7 | 1341.2 | 1727.5 | 2435.1 | 3339.7 | 4621.6 | 5638.2 | 5715.4 |
| 50° | 1036.7 | 1035.6 | 1060.2 | 1127.4 | 1284.1 | 1644.7 | 2393.6 | 3432.6 | 4976.5 | 6119.6 | 6234.9 |
| 52.5° | 1006.5 | 1007.6 | 1027.8 | 1088.2 | 1228.2 | 1548.4 | 2295.1 | 3456.1 | 5341.5 | 6602.1 | 6727.5 |
| 55° | 970.7 | 974.0 | 993.1 | 1043.4 | 1171.1 | 1453.2 | 2127.2 | 3413.6 | 5734.4 | 7079.1 | 7280.6 |
| 57.5° | 936.0 | 933.7 | 952.8 | 997.5 | 1109.5 | 1356.9 | 1935.7 | 3305.0 | 6111.7 | 7580.6 | 7707.1 |
| 60° | 895.7 | 897.9 | 911.3 | 948.3 | 1044.6 | 1255.0 | 1721.9 | 3116.9 | 6365.9 | 7968.0 | 8056.4 |
| 62.5° | 849.8 | 849.8 | 862.1 | 890.1 | 969.5 | 1144.2 | 1517.0 | 2868.3 | 6509.2 | 8169.5 | 8316.2 |
| 65° | 791.5 | 788.2 | 801.6 | 821.8 | 882.2 | 1025.5 | 1330.1 | 2576.1 | 6438.7 | 8291.5 | 8513.2 |
| 67.5° | 728.8 | 722.1 | 728.8 | 737.8 | 782.6 | 897.9 | 1140.8 | 2311.9 | 6109.5 | 8213.2 | 8479.6 |
| 70° | 647.1 | 638.2 | 641.5 | 641.5 | 671.7 | 749.0 | 956.1 | 2088.0 | 5358.3 | 7960.2 | 8338.6 |
| 72.5° | 529.6 | 526.2 | 531.8 | 527.3 | 549.7 | 601.2 | 792.7 | 1815.9 | 4366.3 | 7353.3 | 7807.9 |
| 75° | 322.4 | 326.9 | 344.8 | 376.2 | 396.3 | 435.5 | 579.9 | 1436.4 | 3306.1 | 5547.5 | 6090.5 |
| 77.5° | 134.3 | 150.0 | 165.7 | 171.3 | 193.7 | 189.2 | 262.0 | 651.6 | 1339.0 | 2208.9 | 2391.4 |
| 80° | 44.8 | 45.9 | 101.9 | 113.1 | 124.3 | 101.9 | 99.6 | 218.3 | 382.9 | 323.6 | 272.1 |
| 82.5° | 26.9 | 29.1 | 56.0 | 60.5 | 52.6 | 54.9 | 58.2 | 73.9 | 71.7 | 116.4 | 132.1 |
| 85° | 13.4 | 14.6 | 24.6 | 28.0 | 28.0 | 33.6 | 33.6 | 35.8 | 40.3 | 70.5 | 76.1 |
| 87.5° | 3.4 | 3.4 | 6.7 | 10.1 | 11.2 | 13.4 | 13.4 | 15.7 | 17.9 | 25.8 | 30.2 |
| 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)