

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: P507631

Luminaire Tested: **VERD-S-CA1-60-730-U-T1**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-730-U-T1
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1150mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8888 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (A_{in}): 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

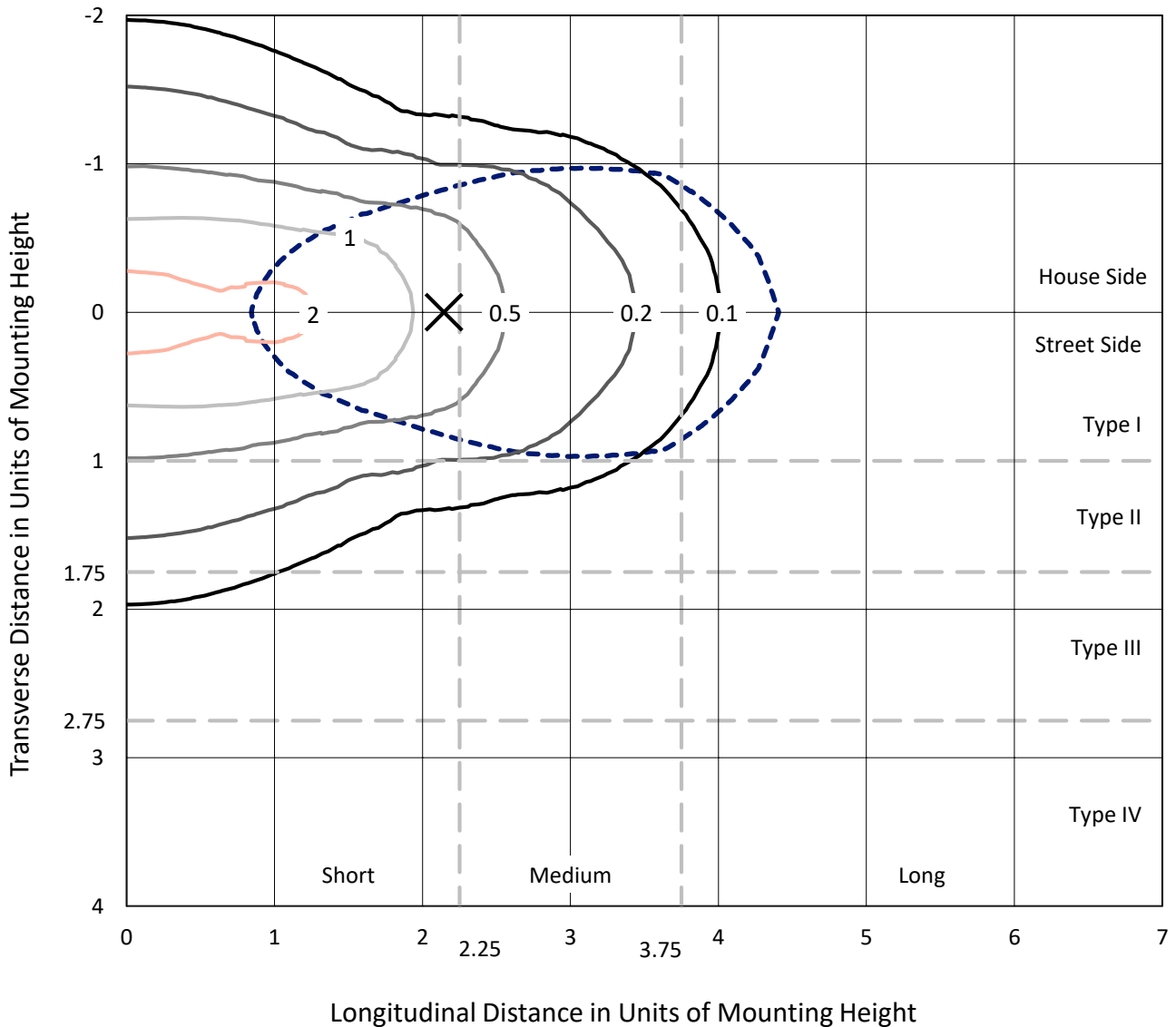


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Iso-Footcandle Lines of Horizontal Illumination

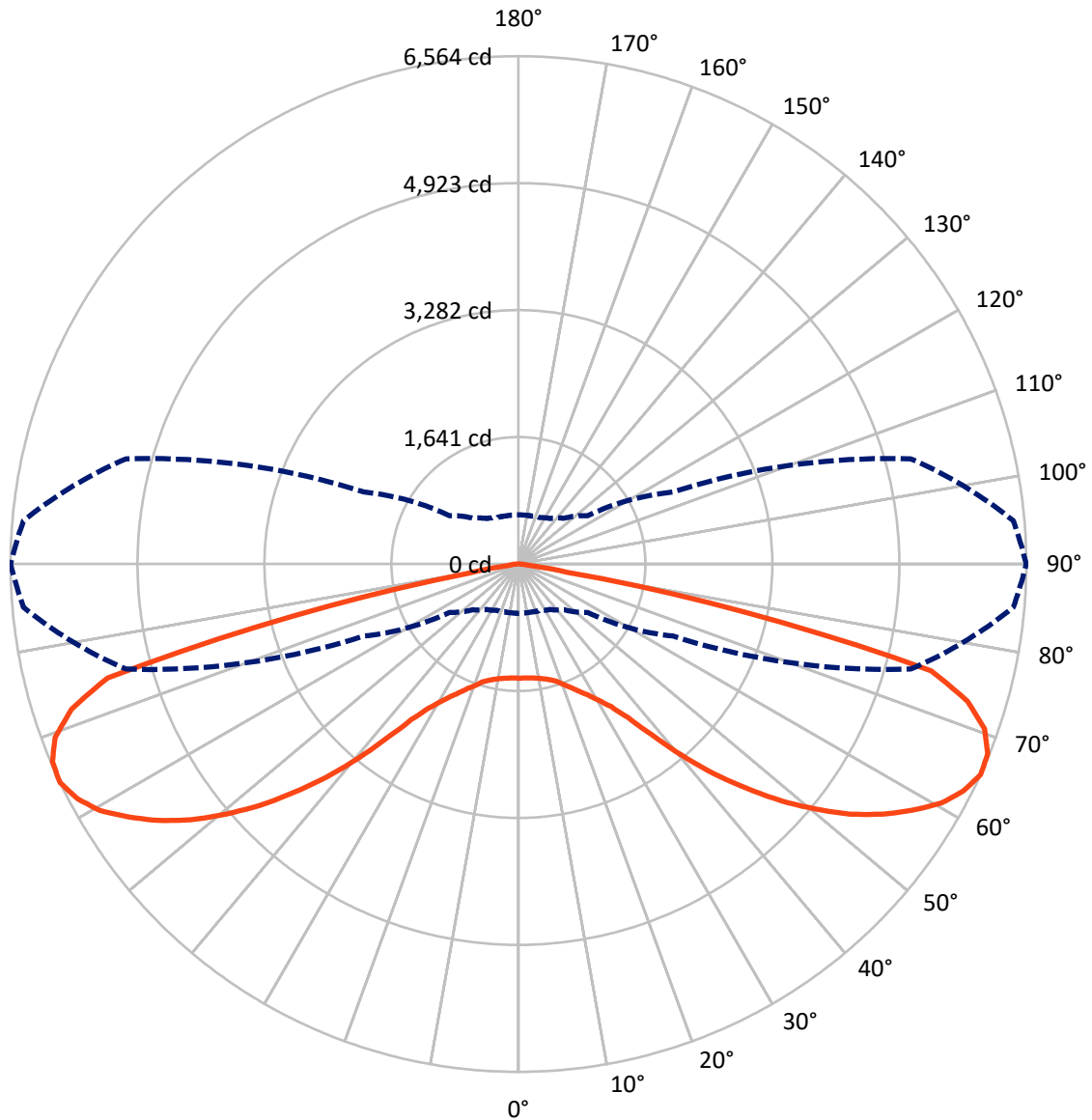
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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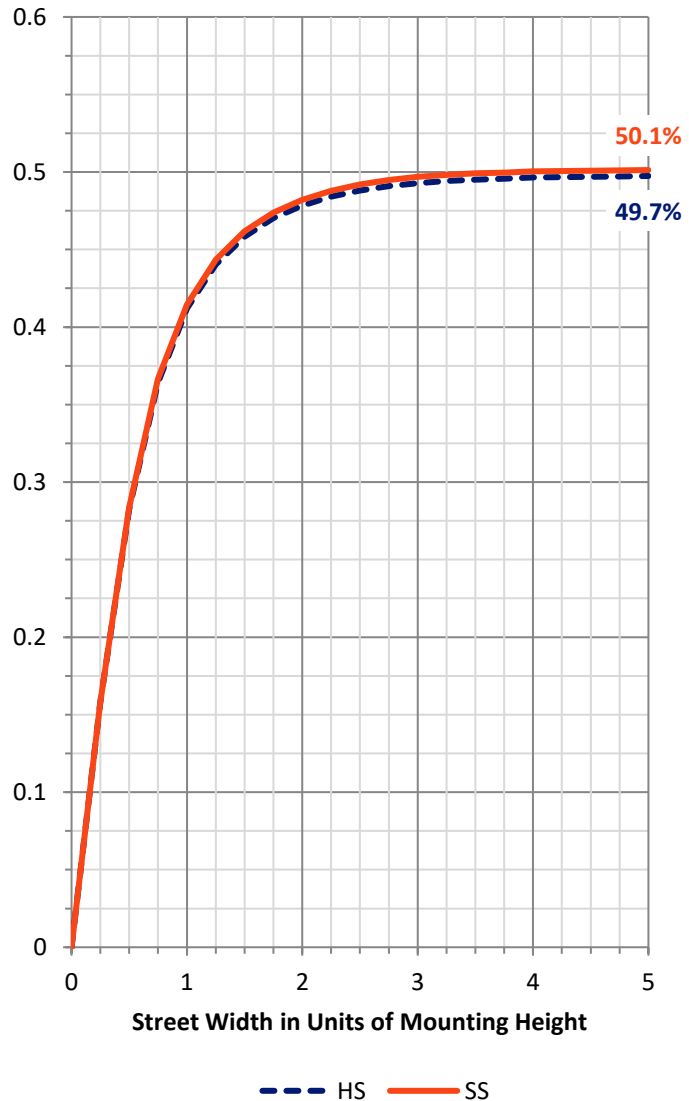
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4444.0 | 0.0 | 4444.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4444.0 | 0.0 | 4444.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8888.0 | 0.0 | 8888.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.3 | 1.6 |
| 10°-20° | 421.5 | 4.7 |
| 20°-30° | 698.1 | 7.9 |
| 30°-40° | 1010.4 | 11.4 |
| 40°-50° | 1462.6 | 16.5 |
| 50°-60° | 1903.8 | 21.4 |
| 60°-70° | 2010.8 | 22.6 |
| 70°-80° | 1183.5 | 13.3 |
| 80°-90° | 55.9 | 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° | 8888.0 | 100.0 |
| 0°-180° | 8888.0 | 100.0 |

Coefficient of Utilization



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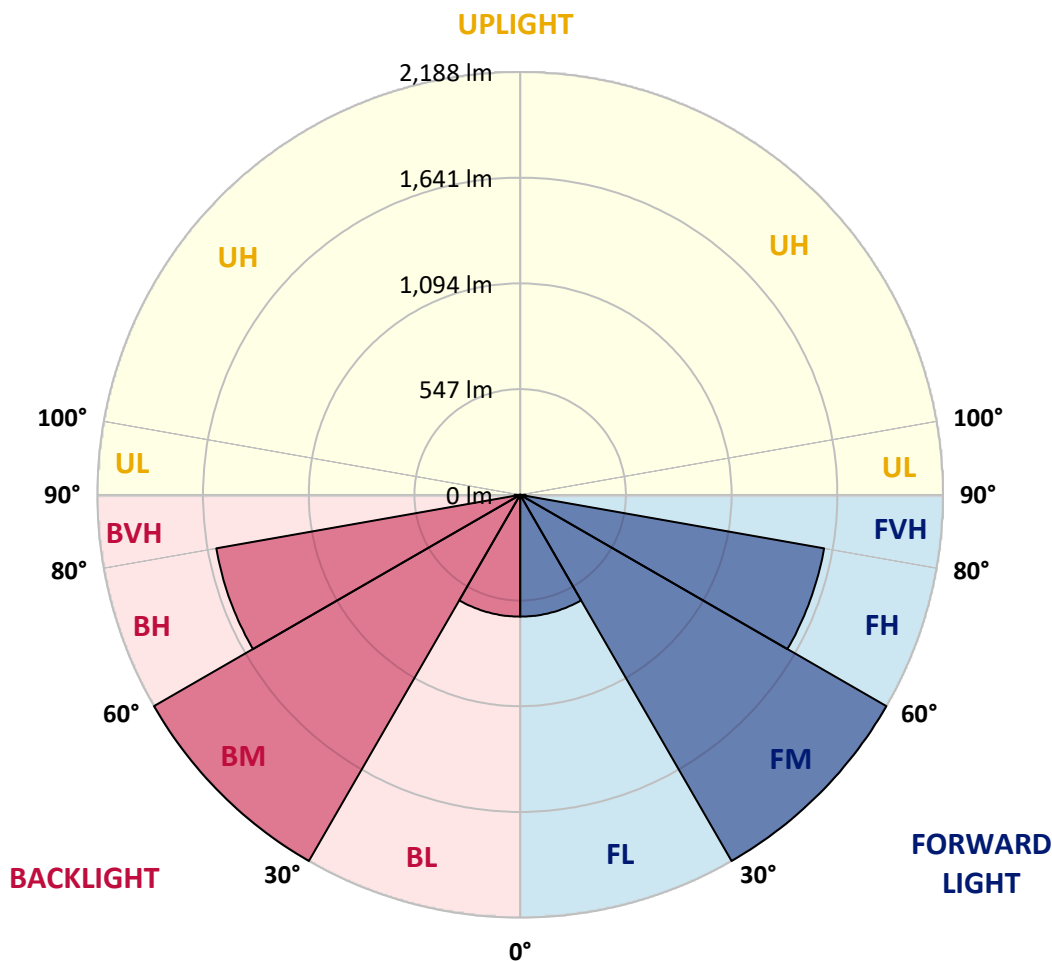
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 630.4 | 7.1 | | | |
| FM (30°-60°) | 2188.4 | 24.6 | | | |
| FH (60°-80°) | 1597.2 | 18.0 | | | G1/1800 |
| FVH (80°-90°) | 27.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 630.4 | 7.1 | B2/1000 | | |
| BM (30°-60°) | 2188.4 | 24.6 | B2/2500 | | |
| BH (60°-80°) | 1597.2 | 18.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 27.9 | 0.3 | | | 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° | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 |
| 2.5° | 1480.9 | 1480.9 | 1483.3 | 1480.9 | 1480.9 | 1480.9 | 1480.9 | 1478.5 | 1476.0 | 1473.6 | 1473.6 |
| 5° | 1478.5 | 1478.5 | 1478.5 | 1480.9 | 1480.9 | 1483.3 | 1483.3 | 1480.9 | 1480.9 | 1480.9 | 1478.5 |
| 7.5° | 1468.8 | 1471.2 | 1471.2 | 1473.6 | 1476.0 | 1480.9 | 1483.3 | 1485.7 | 1488.1 | 1488.1 | 1488.1 |
| 10° | 1456.7 | 1456.7 | 1459.1 | 1464.0 | 1471.2 | 1476.0 | 1488.1 | 1495.4 | 1500.2 | 1502.6 | 1502.6 |
| 12.5° | 1437.4 | 1437.4 | 1442.2 | 1451.9 | 1466.4 | 1480.9 | 1495.4 | 1509.9 | 1519.5 | 1524.4 | 1524.4 |
| 15° | 1413.2 | 1413.2 | 1420.5 | 1435.0 | 1461.6 | 1488.1 | 1512.3 | 1534.0 | 1548.5 | 1555.8 | 1553.4 |
| 17.5° | 1377.0 | 1377.0 | 1386.7 | 1413.2 | 1454.3 | 1497.8 | 1538.9 | 1565.4 | 1587.2 | 1594.4 | 1594.4 |
| 20° | 1328.7 | 1328.7 | 1345.6 | 1381.8 | 1439.8 | 1505.0 | 1563.0 | 1604.1 | 1635.5 | 1657.2 | 1662.1 |
| 22.5° | 1268.3 | 1268.3 | 1294.9 | 1345.6 | 1415.7 | 1500.2 | 1579.9 | 1650.0 | 1705.5 | 1729.7 | 1732.1 |
| 25° | 1198.2 | 1203.1 | 1239.3 | 1304.5 | 1393.9 | 1497.8 | 1606.5 | 1703.1 | 1775.6 | 1814.3 | 1821.5 |
| 27.5° | 1133.0 | 1137.8 | 1183.7 | 1265.9 | 1372.2 | 1500.2 | 1630.7 | 1761.1 | 1865.0 | 1910.9 | 1918.1 |
| 30° | 1072.6 | 1077.4 | 1125.8 | 1222.4 | 1355.3 | 1502.6 | 1659.6 | 1819.1 | 1956.8 | 2029.3 | 2043.8 |
| 32.5° | 1019.5 | 1024.3 | 1072.6 | 1176.5 | 1331.1 | 1505.0 | 1695.9 | 1896.4 | 2075.2 | 2183.9 | 2195.9 |
| 35° | 973.6 | 978.4 | 1029.1 | 1128.2 | 1299.7 | 1509.9 | 1739.4 | 1988.2 | 2232.2 | 2408.5 | 2437.5 |
| 37.5° | 934.9 | 939.7 | 983.2 | 1082.3 | 1263.5 | 1509.9 | 1785.3 | 2094.5 | 2437.5 | 2744.3 | 2797.5 |
| 40° | 905.9 | 910.8 | 944.6 | 1036.4 | 1220.0 | 1500.2 | 1826.3 | 2210.4 | 2681.5 | 3164.7 | 3251.6 |
| 42.5° | 879.3 | 886.6 | 915.6 | 995.3 | 1174.1 | 1480.9 | 1869.8 | 2326.4 | 2969.0 | 3601.9 | 3705.8 |
| 45° | 852.8 | 860.0 | 891.4 | 963.9 | 1125.8 | 1451.9 | 1896.4 | 2439.9 | 3292.7 | 4046.4 | 4135.8 |
| 47.5° | 835.9 | 835.9 | 862.4 | 930.1 | 1079.9 | 1401.2 | 1903.6 | 2546.2 | 3626.1 | 4471.6 | 4575.5 |
| 50° | 819.0 | 819.0 | 840.7 | 898.7 | 1031.5 | 1335.9 | 1877.1 | 2647.7 | 3974.0 | 4875.1 | 4976.5 |
| 52.5° | 797.2 | 794.8 | 816.5 | 869.7 | 985.6 | 1253.8 | 1814.3 | 2715.3 | 4329.1 | 5256.8 | 5370.3 |
| 55° | 770.6 | 770.6 | 787.5 | 835.9 | 942.2 | 1171.7 | 1700.7 | 2746.7 | 4657.6 | 5587.7 | 5708.5 |
| 57.5° | 741.6 | 739.2 | 756.1 | 794.8 | 893.8 | 1091.9 | 1548.5 | 2725.0 | 4925.8 | 5901.8 | 6003.2 |
| 60° | 715.1 | 712.7 | 724.7 | 758.6 | 838.3 | 1014.6 | 1393.9 | 2606.6 | 5140.8 | 6160.3 | 6276.2 |
| 62.5° | 681.3 | 681.3 | 690.9 | 717.5 | 785.1 | 927.7 | 1239.3 | 2423.0 | 5247.1 | 6334.2 | 6457.4 |
| 65° | 637.8 | 635.4 | 642.6 | 661.9 | 717.5 | 835.9 | 1089.5 | 2203.2 | 5249.5 | 6421.2 | 6563.7 |
| 67.5° | 558.0 | 577.4 | 584.6 | 596.7 | 642.6 | 741.6 | 947.0 | 2007.5 | 5061.1 | 6404.2 | 6541.9 |
| 70° | 451.8 | 514.6 | 514.6 | 521.8 | 555.6 | 635.4 | 814.1 | 1843.2 | 4643.1 | 6242.4 | 6389.8 |
| 72.5° | 314.1 | 369.6 | 415.5 | 432.4 | 461.4 | 517.0 | 686.1 | 1645.2 | 3923.2 | 5872.8 | 6070.9 |
| 75° | 116.0 | 108.7 | 157.0 | 263.3 | 292.3 | 340.6 | 502.5 | 1355.3 | 3171.9 | 5169.8 | 5508.0 |
| 77.5° | 33.8 | 36.2 | 50.7 | 135.3 | 154.6 | 166.7 | 273.0 | 676.4 | 1468.8 | 2645.3 | 2993.2 |
| 80° | 29.0 | 29.0 | 36.2 | 43.5 | 50.7 | 82.1 | 89.4 | 251.2 | 483.2 | 632.9 | 635.4 |
| 82.5° | 21.7 | 21.7 | 26.6 | 31.4 | 38.7 | 48.3 | 53.1 | 87.0 | 123.2 | 128.0 | 128.0 |
| 85° | 14.5 | 14.5 | 16.9 | 19.3 | 24.2 | 29.0 | 31.4 | 36.2 | 45.9 | 77.3 | 82.1 |
| 87.5° | 7.2 | 7.2 | 9.7 | 9.7 | 12.1 | 12.1 | 14.5 | 21.7 | 24.2 | 36.2 | 36.2 |
| 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)