

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386659

Luminaire Tested: GAW-SA2B-760-U-5NQ

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-760-U-5NQ
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12302 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

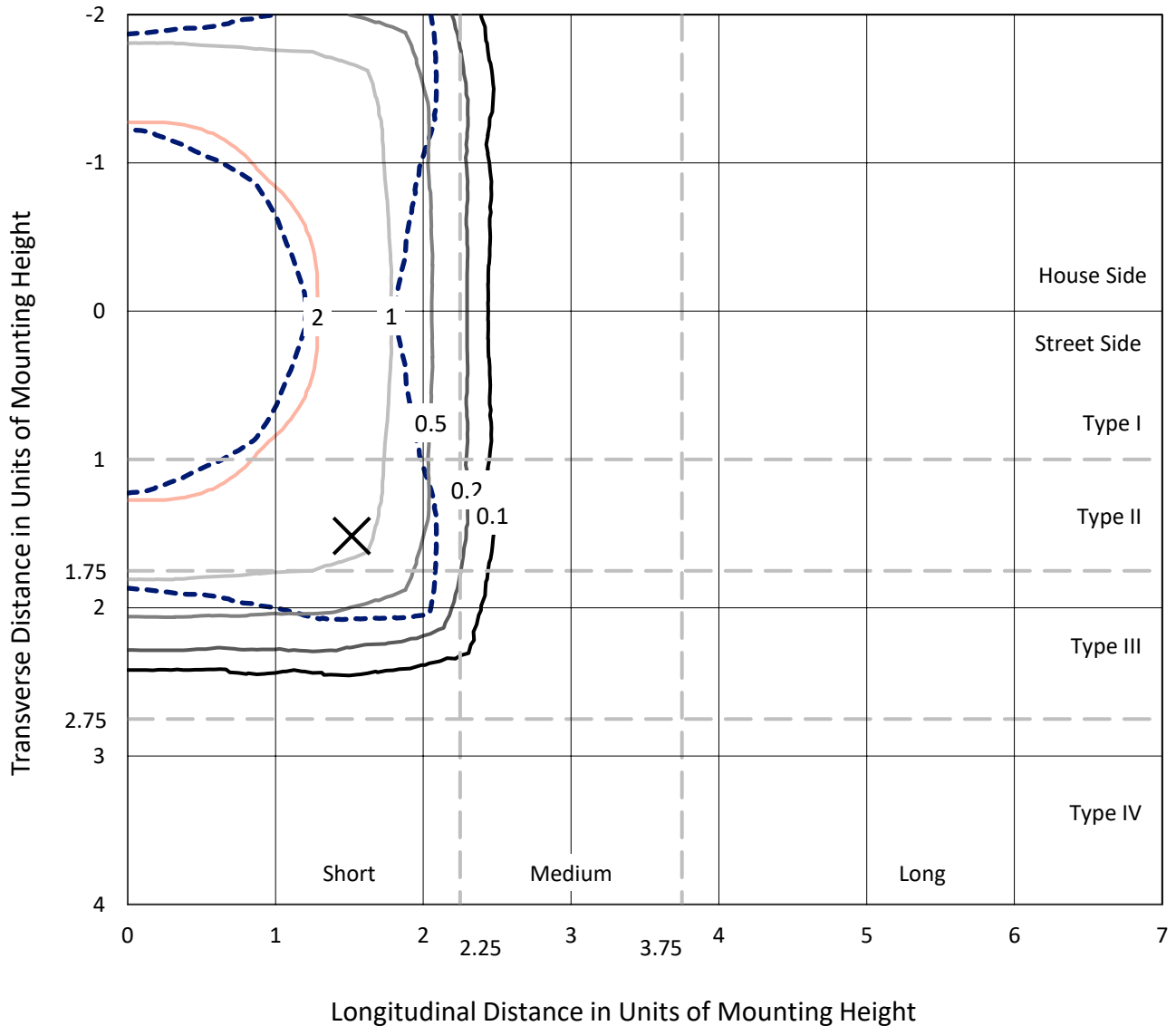
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

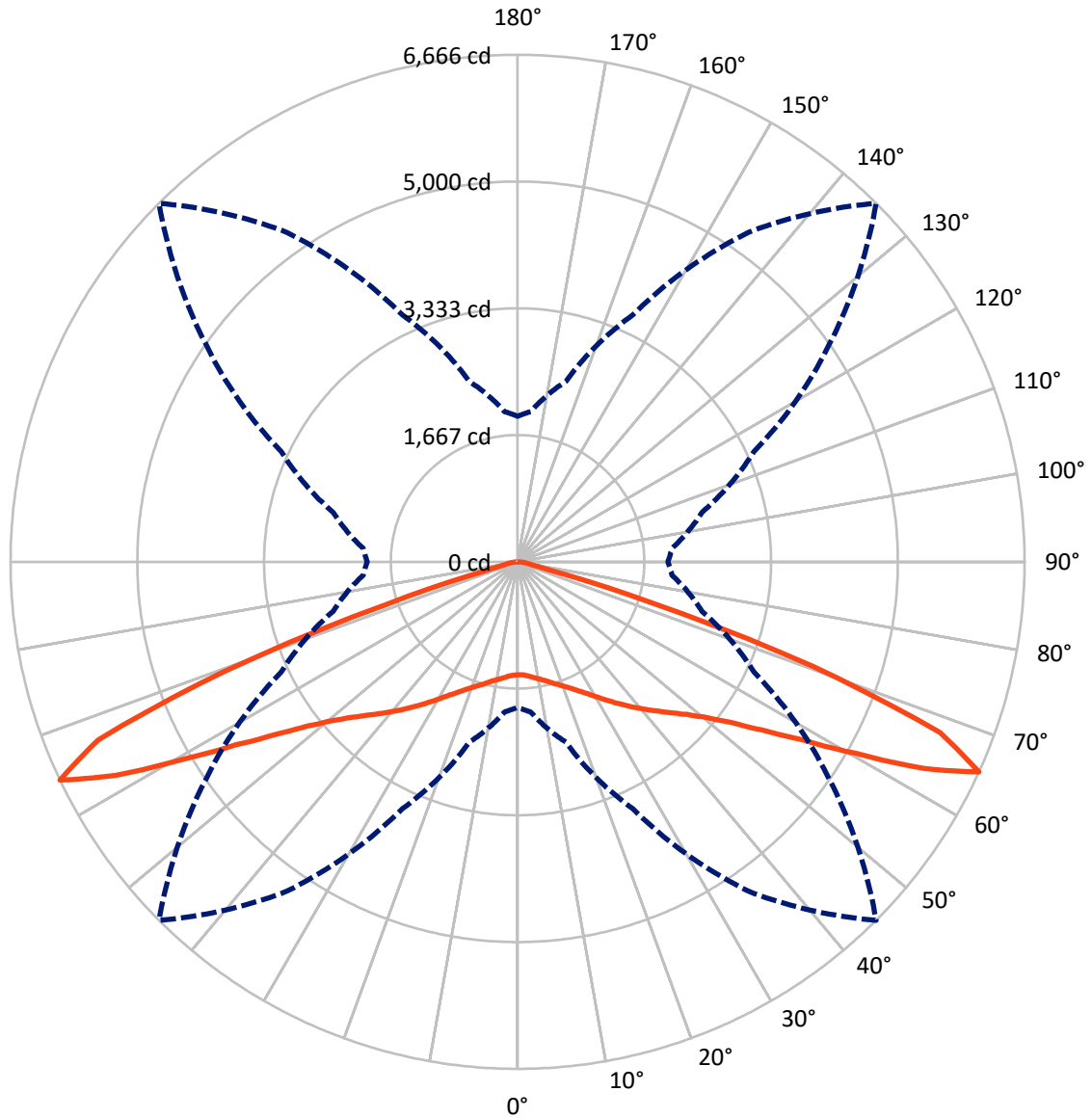
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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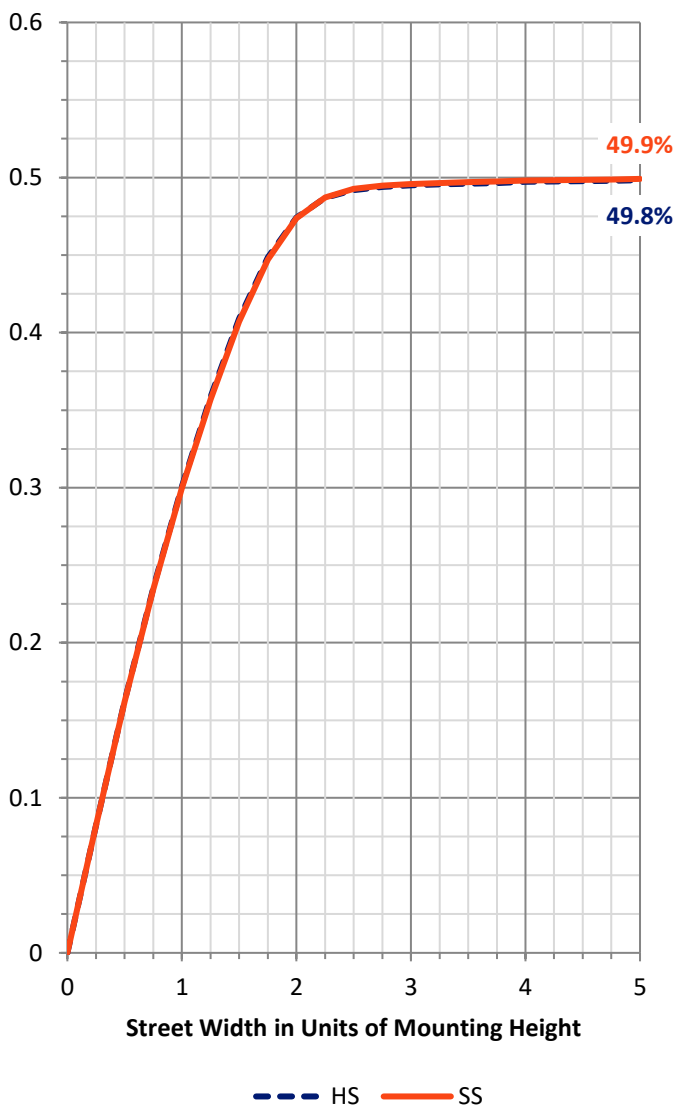
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6151.0 | 0.0 | 6151.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6151.0 | 0.0 | 6151.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12302.0 | 0.0 | 12302.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 145.8 | 1.2 |
| 10°-20° | 468.5 | 3.8 |
| 20°-30° | 879.0 | 7.1 |
| 30°-40° | 1453.7 | 11.8 |
| 40°-50° | 2251.6 | 18.3 |
| 50°-60° | 3453.3 | 28.1 |
| 60°-70° | 3222.4 | 26.2 |
| 70°-80° | 375.0 | 3.0 |
| 80°-90° | 52.7 | 0.4 |
| 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° | 12302.0 | 100.0 |
| 0°-180° | 12302.0 | 100.0 |

Coefficient of Utilization



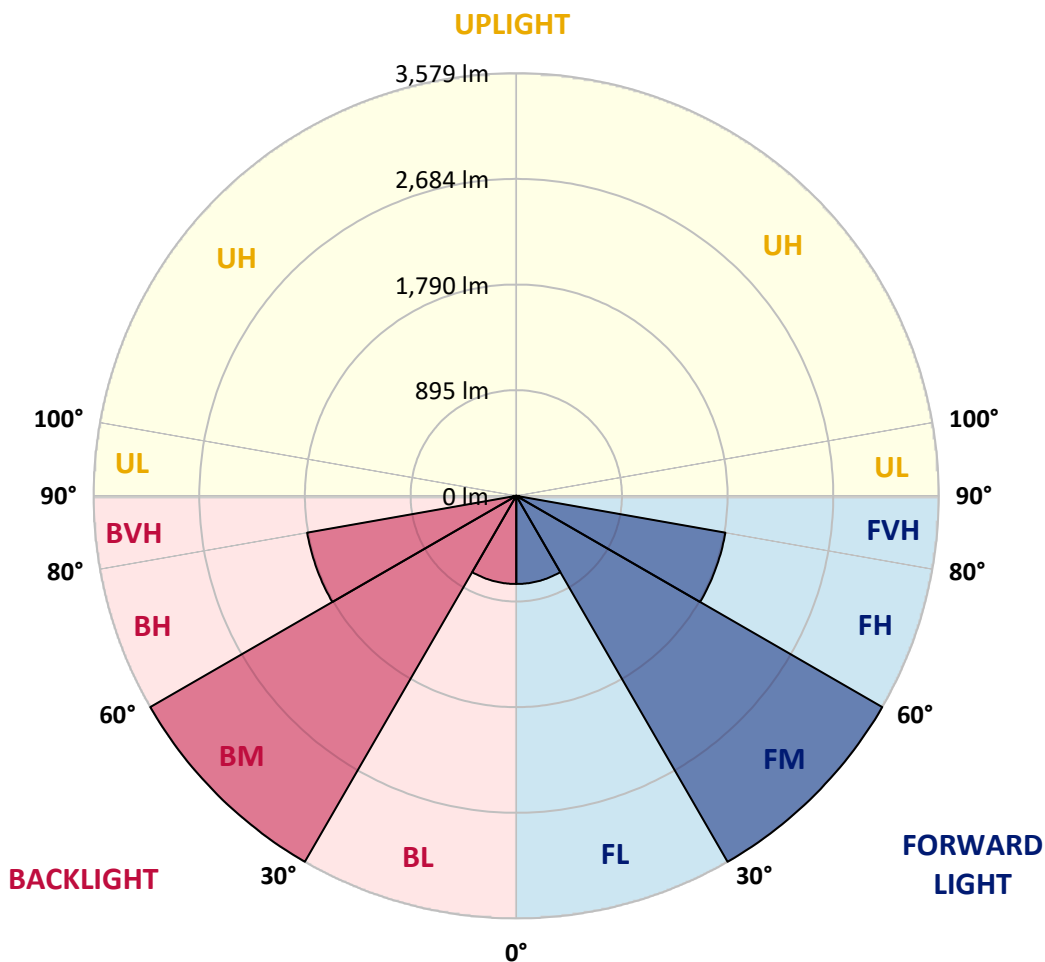
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 746.6 | 6.1 | | | |
| FM (30°-60°) | 3579.3 | 29.1 | | | |
| FH (60°-80°) | 1798.7 | 14.6 | | | G1/1800 |
| FVH (80°-90°) | 26.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 746.6 | 6.1 | B2/1000 | | |
| BM (30°-60°) | 3579.3 | 29.1 | B3/5000 | | |
| BH (60°-80°) | 1798.7 | 14.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 26.3 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1485.6 | 1485.6 | 1485.6 | 1485.6 | 1485.6 | 1485.6 | 1485.6 | 1485.6 | 1485.6 | 1485.6 | 1485.6 |
| 2.5° | 1490.5 | 1489.7 | 1490.5 | 1490.9 | 1488.5 | 1489.7 | 1489.3 | 1491.3 | 1492.2 | 1491.3 | 1491.3 |
| 5° | 1507.7 | 1506.4 | 1508.1 | 1510.1 | 1506.9 | 1507.7 | 1506.4 | 1508.9 | 1509.7 | 1508.1 | 1509.3 |
| 7.5° | 1531.4 | 1531.8 | 1533.4 | 1537.1 | 1535.0 | 1536.7 | 1534.2 | 1534.6 | 1534.2 | 1531.8 | 1532.2 |
| 10° | 1557.1 | 1557.5 | 1560.4 | 1565.3 | 1566.1 | 1566.1 | 1564.4 | 1563.2 | 1561.6 | 1559.9 | 1560.4 |
| 12.5° | 1588.1 | 1590.2 | 1592.2 | 1598.3 | 1598.3 | 1601.6 | 1600.8 | 1597.5 | 1594.7 | 1592.2 | 1592.2 |
| 15° | 1630.2 | 1629.8 | 1632.2 | 1638.3 | 1641.2 | 1646.5 | 1646.5 | 1642.0 | 1638.3 | 1635.9 | 1635.1 |
| 17.5° | 1674.3 | 1675.5 | 1677.1 | 1684.5 | 1689.0 | 1695.1 | 1695.9 | 1692.3 | 1689.8 | 1686.5 | 1684.5 |
| 20° | 1725.7 | 1727.8 | 1734.3 | 1737.2 | 1741.3 | 1747.0 | 1749.0 | 1748.2 | 1745.7 | 1744.1 | 1744.5 |
| 22.5° | 1785.8 | 1791.1 | 1795.2 | 1799.2 | 1804.1 | 1808.2 | 1810.3 | 1813.1 | 1810.7 | 1809.5 | 1808.6 |
| 25° | 1858.5 | 1862.1 | 1870.3 | 1877.7 | 1880.9 | 1882.1 | 1884.6 | 1888.7 | 1888.3 | 1885.4 | 1885.4 |
| 27.5° | 1940.9 | 1947.9 | 1958.1 | 1968.7 | 1968.7 | 1964.6 | 1972.8 | 1979.7 | 1977.3 | 1973.6 | 1968.7 |
| 30° | 2041.0 | 2047.5 | 2059.4 | 2074.1 | 2066.7 | 2063.9 | 2074.9 | 2087.5 | 2083.9 | 2077.7 | 2076.9 |
| 32.5° | 2148.8 | 2154.9 | 2170.4 | 2186.4 | 2177.0 | 2172.9 | 2184.7 | 2203.1 | 2196.6 | 2184.3 | 2177.0 |
| 35° | 2265.6 | 2271.7 | 2293.8 | 2313.0 | 2297.0 | 2290.1 | 2299.9 | 2319.9 | 2308.5 | 2285.6 | 2279.9 |
| 37.5° | 2392.6 | 2395.9 | 2424.4 | 2444.0 | 2433.0 | 2414.6 | 2426.9 | 2441.6 | 2431.8 | 2404.0 | 2393.0 |
| 40° | 2524.5 | 2536.3 | 2569.4 | 2592.3 | 2573.1 | 2544.1 | 2564.5 | 2584.9 | 2570.2 | 2534.7 | 2515.9 |
| 42.5° | 2678.4 | 2687.4 | 2731.5 | 2752.0 | 2720.9 | 2680.1 | 2707.9 | 2735.6 | 2720.9 | 2686.6 | 2670.3 |
| 45° | 2838.5 | 2852.4 | 2905.1 | 2925.5 | 2880.6 | 2828.7 | 2862.6 | 2911.2 | 2910.0 | 2860.6 | 2843.4 |
| 47.5° | 3012.9 | 3026.8 | 3089.7 | 3116.6 | 3068.0 | 2998.6 | 3046.4 | 3115.0 | 3110.1 | 3055.8 | 3041.9 |
| 50° | 3214.2 | 3228.9 | 3307.3 | 3341.2 | 3295.9 | 3215.0 | 3286.9 | 3347.3 | 3338.4 | 3271.4 | 3272.6 |
| 52.5° | 3467.0 | 3466.2 | 3563.8 | 3622.6 | 3576.0 | 3504.6 | 3570.7 | 3629.5 | 3592.4 | 3499.7 | 3496.8 |
| 55° | 3688.3 | 3701.8 | 3822.7 | 3934.2 | 3931.3 | 3903.9 | 3930.5 | 3932.9 | 3826.8 | 3703.4 | 3688.3 |
| 57.5° | 3833.7 | 3859.4 | 4029.7 | 4231.5 | 4382.5 | 4418.9 | 4367.4 | 4211.4 | 3962.7 | 3765.5 | 3741.4 |
| 60° | 3744.3 | 3783.5 | 4051.0 | 4462.2 | 4907.3 | 5120.9 | 4830.5 | 4346.6 | 3857.0 | 3582.2 | 3549.5 |
| 62.5° | 3140.7 | 3206.9 | 3598.5 | 4350.7 | 5358.9 | 5983.3 | 5166.2 | 4129.8 | 3436.4 | 3057.8 | 3001.9 |
| 65° | 1912.8 | 1982.6 | 2454.7 | 3580.9 | 5285.8 | 6666.1 | 5013.1 | 3427.8 | 2508.2 | 2037.3 | 1976.9 |
| 67.5° | 637.5 | 657.9 | 936.0 | 1979.3 | 4154.3 | 5989.5 | 4161.2 | 2052.0 | 1091.6 | 723.6 | 702.4 |
| 70° | 249.5 | 251.6 | 296.9 | 573.7 | 1961.8 | 4113.8 | 2164.7 | 584.0 | 310.4 | 245.4 | 250.7 |
| 72.5° | 183.4 | 184.2 | 196.8 | 239.7 | 511.3 | 1812.3 | 529.6 | 240.9 | 191.5 | 171.9 | 171.9 |
| 75° | 147.4 | 147.4 | 156.4 | 174.8 | 229.1 | 415.7 | 232.4 | 172.7 | 149.9 | 137.2 | 135.6 |
| 77.5° | 116.4 | 118.8 | 125.8 | 137.6 | 155.2 | 200.1 | 160.9 | 136.8 | 120.9 | 109.0 | 106.6 |
| 80° | 86.6 | 89.0 | 100.5 | 106.2 | 111.5 | 138.8 | 118.8 | 107.0 | 95.6 | 81.7 | 79.2 |
| 82.5° | 56.8 | 59.2 | 73.5 | 76.8 | 75.5 | 90.7 | 80.0 | 78.8 | 70.2 | 52.7 | 50.2 |
| 85° | 37.2 | 38.0 | 49.0 | 51.0 | 47.0 | 41.2 | 51.0 | 53.9 | 49.0 | 34.3 | 33.1 |
| 87.5° | 17.6 | 17.6 | 24.9 | 23.3 | 21.2 | 17.2 | 23.3 | 27.4 | 27.8 | 16.7 | 16.3 |
| 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)