

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: P479585

Luminaire Tested: **IFLD-L-SA7A-722-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479585
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

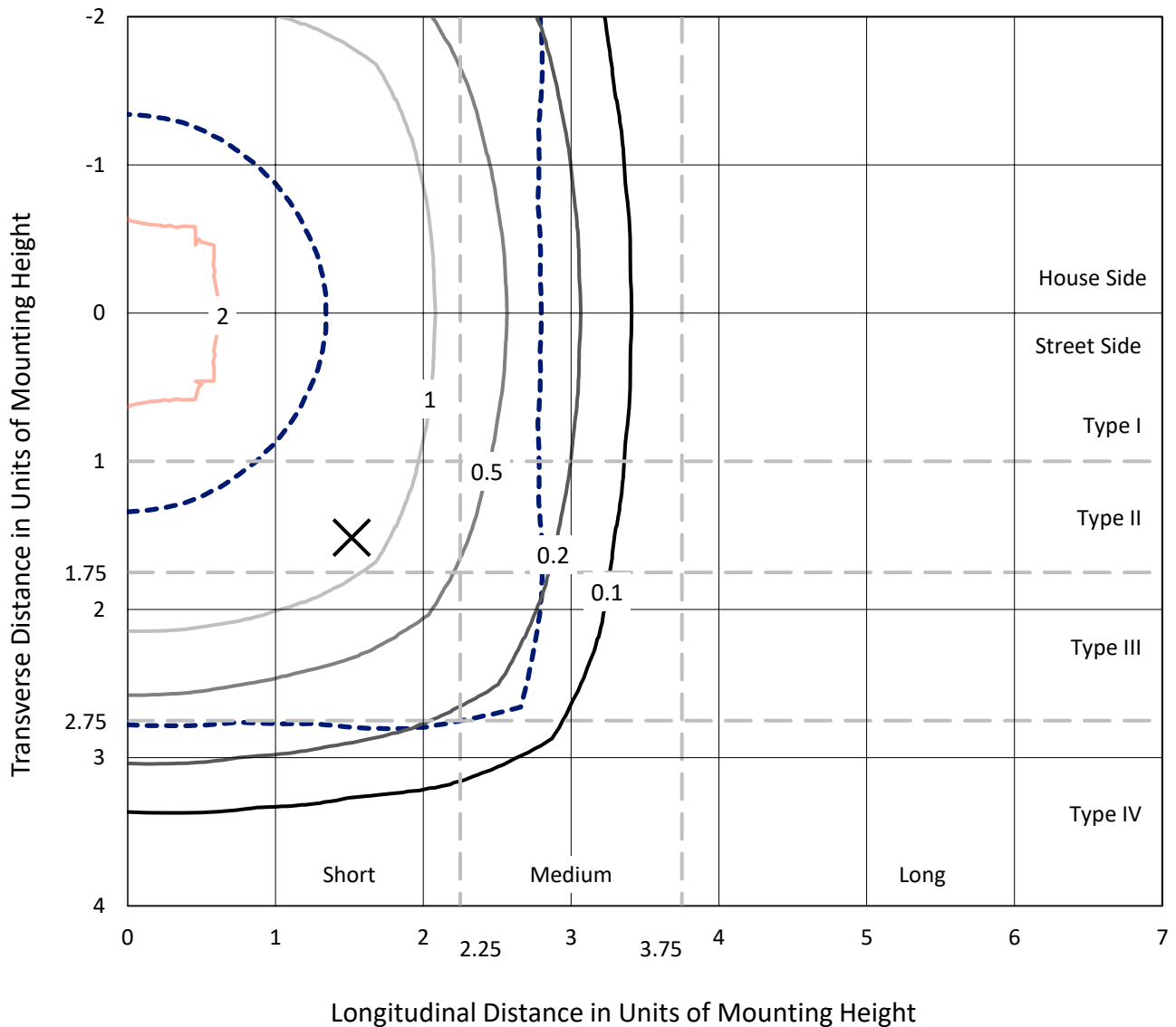
Lumens per Lamp: N/A
Luminaire Lumens: 23659.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 217.6
Input Voltage (V): 120
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

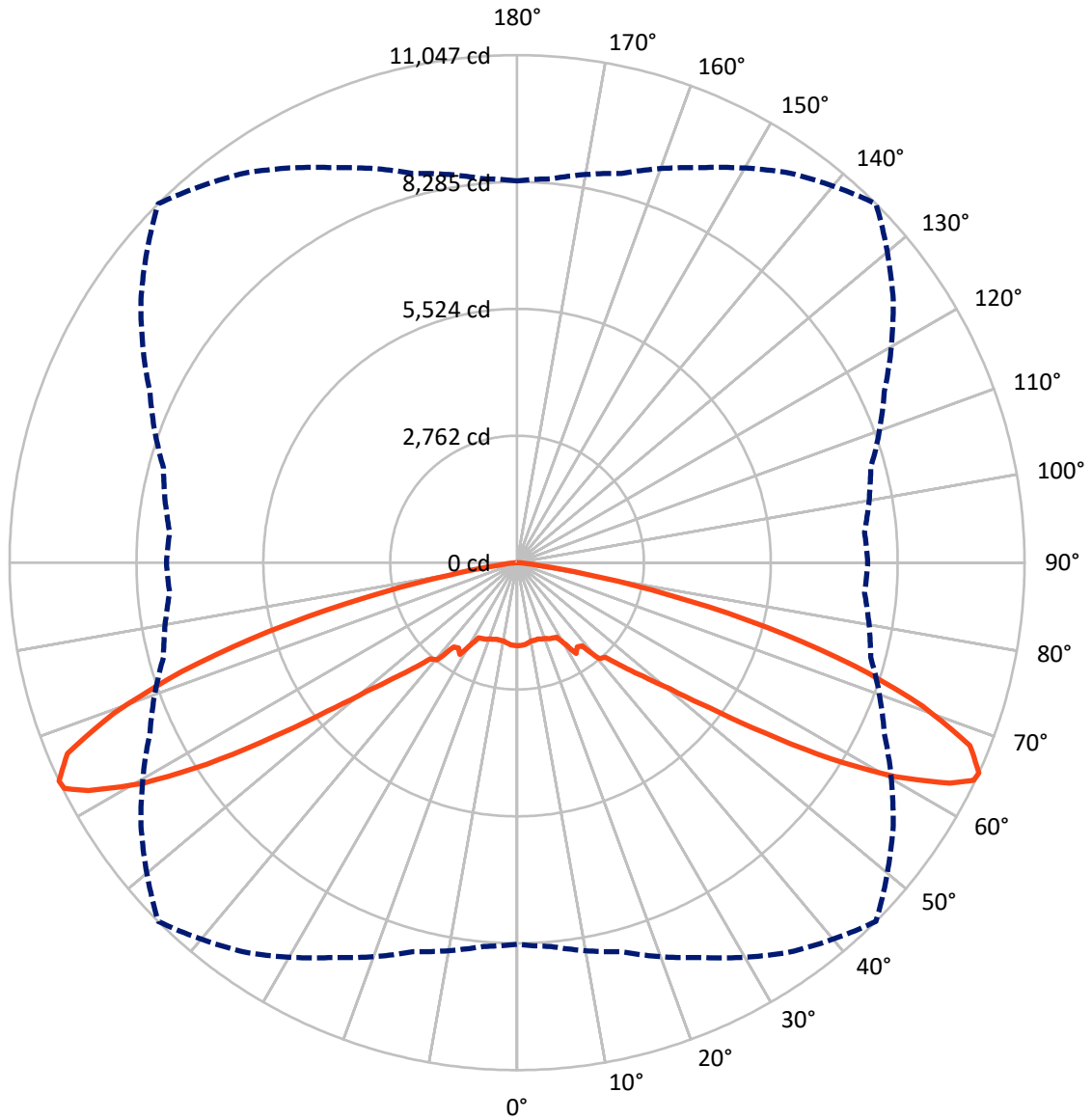
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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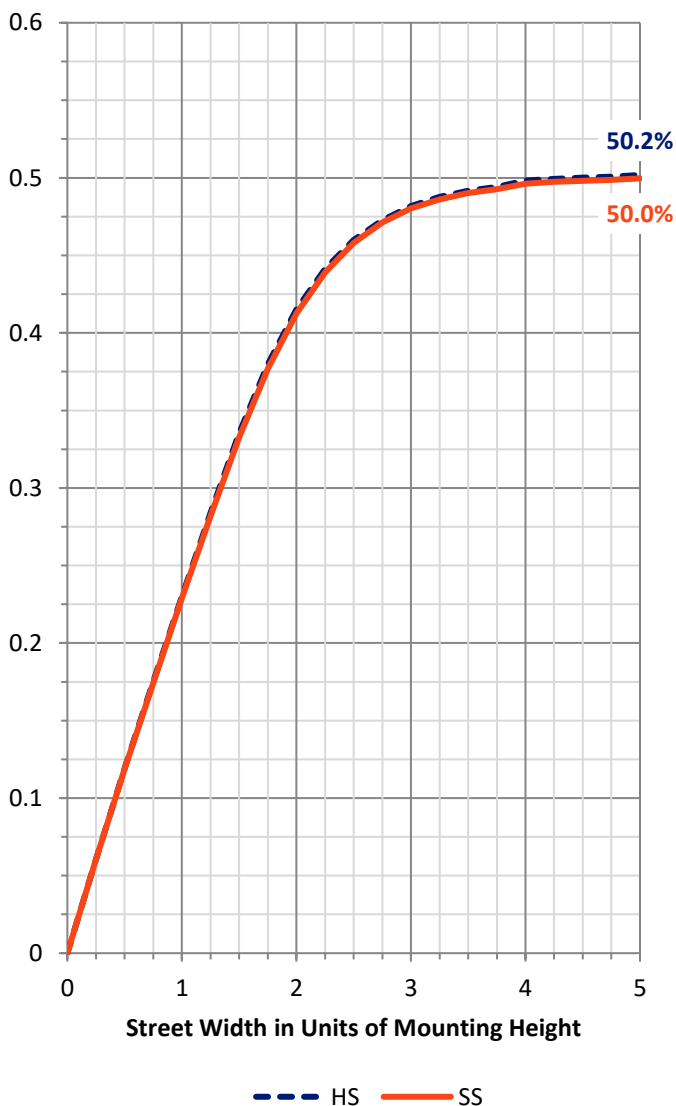
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11829.9 | 0.0 | 11829.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11829.9 | 0.0 | 11829.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23659.8 | 0.0 | 23659.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 169.8 | 0.7 |
| 10°-20° | 498.7 | 2.1 |
| 20°-30° | 863.1 | 3.6 |
| 30°-40° | 1435.2 | 6.1 |
| 40°-50° | 2589.4 | 10.9 |
| 50°-60° | 5768.2 | 24.4 |
| 60°-70° | 8596.5 | 36.3 |
| 70°-80° | 3562.5 | 15.1 |
| 80°-90° | 176.4 | 0.7 |
| 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° | 23659.8 | 100.0 |
| 0°-180° | 23659.8 | 100.0 |

Coefficient of Utilization



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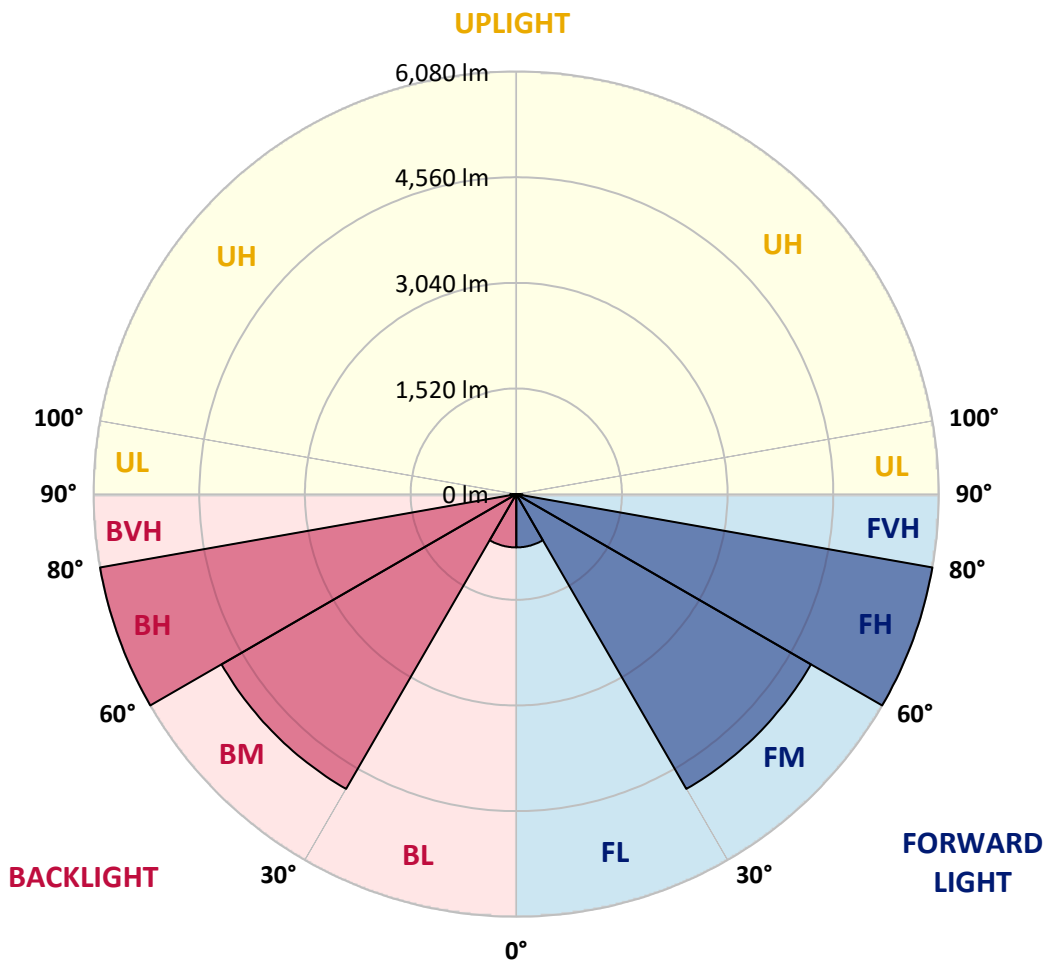
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 765.8 | 3.2 | | | |
| FM (30°-60°) | 4896.4 | 20.7 | | | |
| FH (60°-80°) | 6079.5 | 25.7 | | | G3/7500 |
| FVH (80°-90°) | 88.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 765.8 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 4896.4 | 20.7 | B3/5000 | | |
| BH (60°-80°) | 6079.5 | 25.7 | B5 | | G3/7500 |
| BVH (80°-90°) | 88.2 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1808.9 | 1808.9 | 1808.9 | 1808.9 | 1808.9 | 1808.9 | 1808.9 | 1808.9 | 1808.9 | 1808.9 | 1808.9 |
| 2.5° | 1788.0 | 1793.3 | 1790.6 | 1790.6 | 1798.5 | 1803.7 | 1806.3 | 1832.5 | 1822.0 | 1829.9 | 1822.0 |
| 5° | 1793.3 | 1793.3 | 1798.5 | 1793.3 | 1798.5 | 1793.3 | 1798.5 | 1790.6 | 1798.5 | 1803.7 | 1811.6 |
| 7.5° | 1782.8 | 1777.6 | 1769.7 | 1769.7 | 1767.1 | 1761.9 | 1754.0 | 1775.0 | 1764.5 | 1772.3 | 1785.4 |
| 10° | 1785.4 | 1777.6 | 1751.4 | 1756.7 | 1733.1 | 1733.1 | 1738.4 | 1738.4 | 1761.9 | 1788.0 | 1795.9 |
| 12.5° | 1785.4 | 1769.7 | 1761.9 | 1727.9 | 1727.9 | 1730.5 | 1743.6 | 1748.8 | 1764.5 | 1775.0 | 1801.1 |
| 15° | 1785.4 | 1777.6 | 1764.5 | 1720.1 | 1730.5 | 1725.3 | 1738.4 | 1738.4 | 1772.3 | 1790.6 | 1803.7 |
| 17.5° | 1795.9 | 1801.1 | 1777.6 | 1735.7 | 1738.4 | 1748.8 | 1741.0 | 1748.8 | 1790.6 | 1803.7 | 1822.0 |
| 20° | 1798.5 | 1777.6 | 1769.7 | 1743.6 | 1767.1 | 1761.9 | 1759.3 | 1775.0 | 1788.0 | 1811.6 | 1832.5 |
| 22.5° | 1793.3 | 1801.1 | 1769.7 | 1767.1 | 1788.0 | 1798.5 | 1803.7 | 1785.4 | 1801.1 | 1816.8 | 1835.1 |
| 25° | 1837.7 | 1808.9 | 1801.1 | 1795.9 | 1806.3 | 1816.8 | 1811.6 | 1827.2 | 1827.2 | 1845.5 | 1869.1 |
| 27.5° | 1957.9 | 1960.6 | 1944.9 | 1882.1 | 1861.2 | 1837.7 | 1848.1 | 1890.0 | 1939.6 | 1978.9 | 1986.7 |
| 30° | 2012.8 | 2023.3 | 2065.1 | 2054.7 | 2046.8 | 2054.7 | 2052.0 | 2062.5 | 2067.7 | 2070.3 | 2062.5 |
| 32.5° | 2062.5 | 2057.3 | 2039.0 | 2086.0 | 2240.3 | 2357.9 | 2245.5 | 2091.3 | 2057.3 | 2046.8 | 2057.3 |
| 35° | 2242.9 | 2242.9 | 2203.7 | 2143.5 | 2224.6 | 2253.3 | 2201.0 | 2127.9 | 2169.7 | 2255.9 | 2261.2 |
| 37.5° | 2475.5 | 2441.5 | 2457.2 | 2449.4 | 2360.5 | 2297.8 | 2389.3 | 2436.3 | 2444.2 | 2441.5 | 2467.7 |
| 40° | 2614.1 | 2590.5 | 2567.0 | 2608.8 | 2689.9 | 2747.4 | 2666.4 | 2553.9 | 2582.7 | 2640.2 | 2616.7 |
| 42.5° | 2930.4 | 2870.3 | 2875.5 | 2833.7 | 2831.0 | 2812.7 | 2794.4 | 2802.3 | 2844.1 | 2909.5 | 2919.9 |
| 45° | 3254.5 | 3283.3 | 3265.0 | 3186.6 | 3223.2 | 3223.2 | 3170.9 | 3210.1 | 3231.0 | 3306.8 | 3317.3 |
| 47.5° | 3761.7 | 3748.6 | 3756.4 | 3685.8 | 3683.2 | 3701.5 | 3683.2 | 3685.8 | 3751.2 | 3746.0 | 3717.2 |
| 50° | 4355.0 | 4391.6 | 4402.1 | 4368.1 | 4326.3 | 4318.4 | 4289.7 | 4326.3 | 4365.5 | 4368.1 | 4344.6 |
| 52.5° | 5175.9 | 5215.1 | 5215.1 | 5225.5 | 5277.8 | 5251.7 | 5246.4 | 5249.1 | 5173.2 | 5121.0 | 5147.1 |
| 55° | 6211.0 | 6224.1 | 6268.5 | 6360.0 | 6519.5 | 6540.4 | 6441.1 | 6396.6 | 6258.1 | 6174.4 | 6239.8 |
| 57.5° | 7233.1 | 7285.4 | 7408.3 | 7646.2 | 7842.2 | 8056.6 | 7769.0 | 7476.2 | 7204.4 | 7071.1 | 7094.6 |
| 60° | 8082.7 | 8158.5 | 8393.8 | 8725.8 | 9269.5 | 9465.6 | 8979.3 | 8477.4 | 7925.9 | 7518.1 | 7682.8 |
| 62.5° | 8482.7 | 8600.3 | 8799.0 | 9470.8 | 10286.4 | 10568.7 | 9855.1 | 8942.7 | 8106.2 | 7714.1 | 7706.3 |
| 64° | 8485.3 | 8503.6 | 8900.9 | 9625.0 | 10464.1 | 11010.5 | 10066.8 | 8942.7 | 8150.7 | 7667.1 | 7756.0 |
| 65° | 8310.1 | 8385.9 | 8770.2 | 9483.9 | 10351.7 | 11047.1 | 9993.6 | 8819.9 | 7967.7 | 7591.3 | 7633.1 |
| 67.5° | 7515.5 | 7512.8 | 7868.4 | 8576.8 | 9781.9 | 10631.4 | 9371.4 | 8132.4 | 7515.5 | 7107.7 | 7157.3 |
| 70° | 5701.3 | 5792.8 | 6132.6 | 7003.1 | 8464.4 | 9374.1 | 8195.1 | 6911.6 | 6143.1 | 5816.3 | 5798.0 |
| 72.5° | 3411.4 | 3531.6 | 3965.5 | 5026.9 | 6574.4 | 7680.1 | 6503.8 | 5113.1 | 4187.7 | 3670.2 | 3683.2 |
| 75° | 1555.4 | 1644.3 | 1942.3 | 2807.5 | 4381.2 | 5615.0 | 4407.3 | 2956.5 | 2120.0 | 1790.6 | 1743.6 |
| 77.5° | 436.6 | 491.4 | 656.1 | 1288.7 | 2404.9 | 3366.9 | 2472.9 | 1424.7 | 925.4 | 768.5 | 752.9 |
| 80° | 196.1 | 206.5 | 232.7 | 313.7 | 763.3 | 1484.8 | 1022.1 | 522.8 | 347.7 | 287.5 | 274.5 |
| 82.5° | 107.2 | 115.0 | 151.6 | 162.1 | 217.0 | 394.7 | 337.2 | 245.7 | 209.1 | 167.3 | 162.1 |
| 85° | 60.1 | 62.7 | 86.3 | 86.3 | 104.6 | 115.0 | 122.9 | 130.7 | 128.1 | 94.1 | 91.5 |
| 87.5° | 18.3 | 20.9 | 26.1 | 26.1 | 26.1 | 26.1 | 41.8 | 57.5 | 62.7 | 44.4 | 44.4 |
| 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)