

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: P316188

Luminaire Tested: **GAN-SA4A-750-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-750-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19801 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

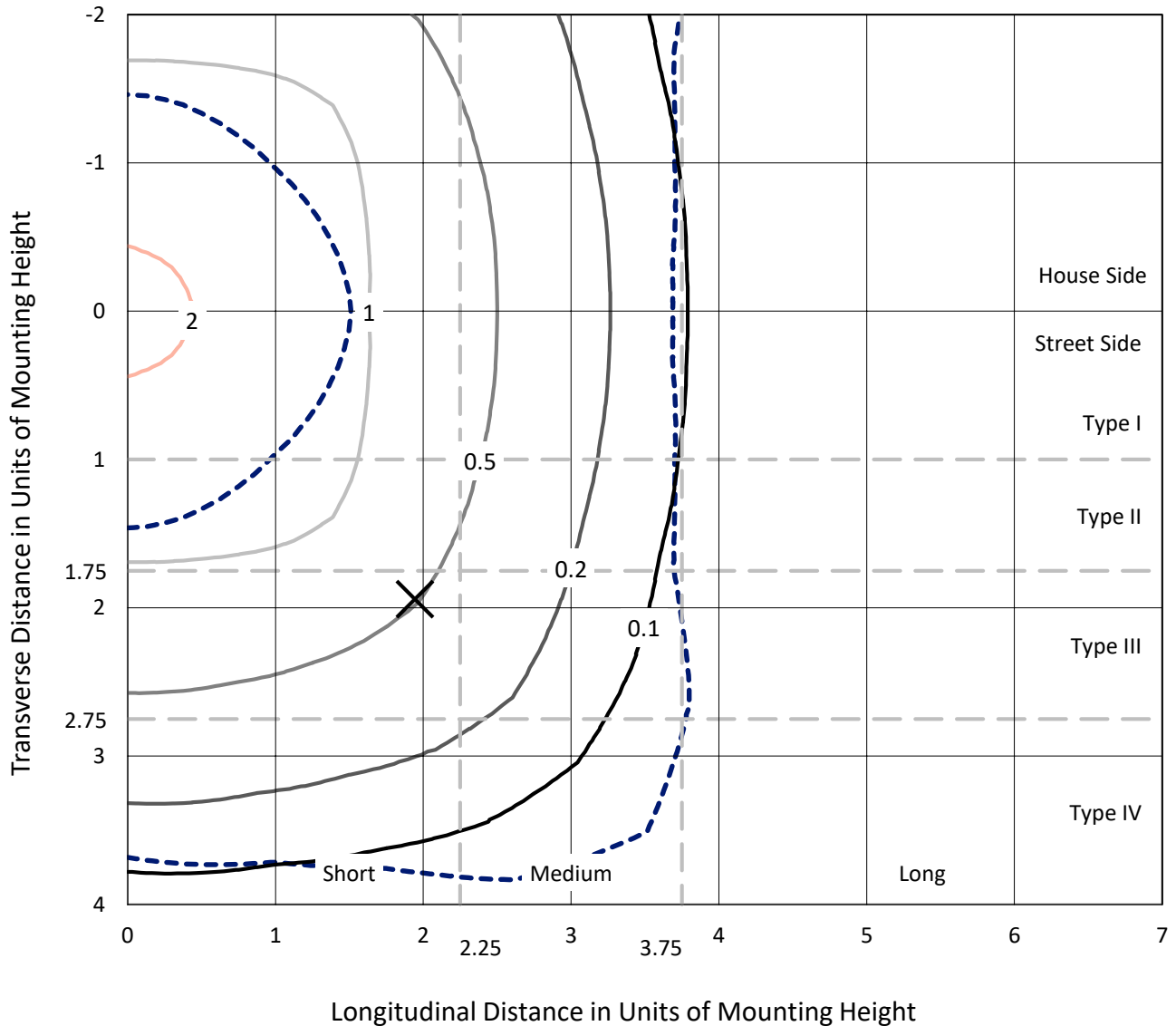
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

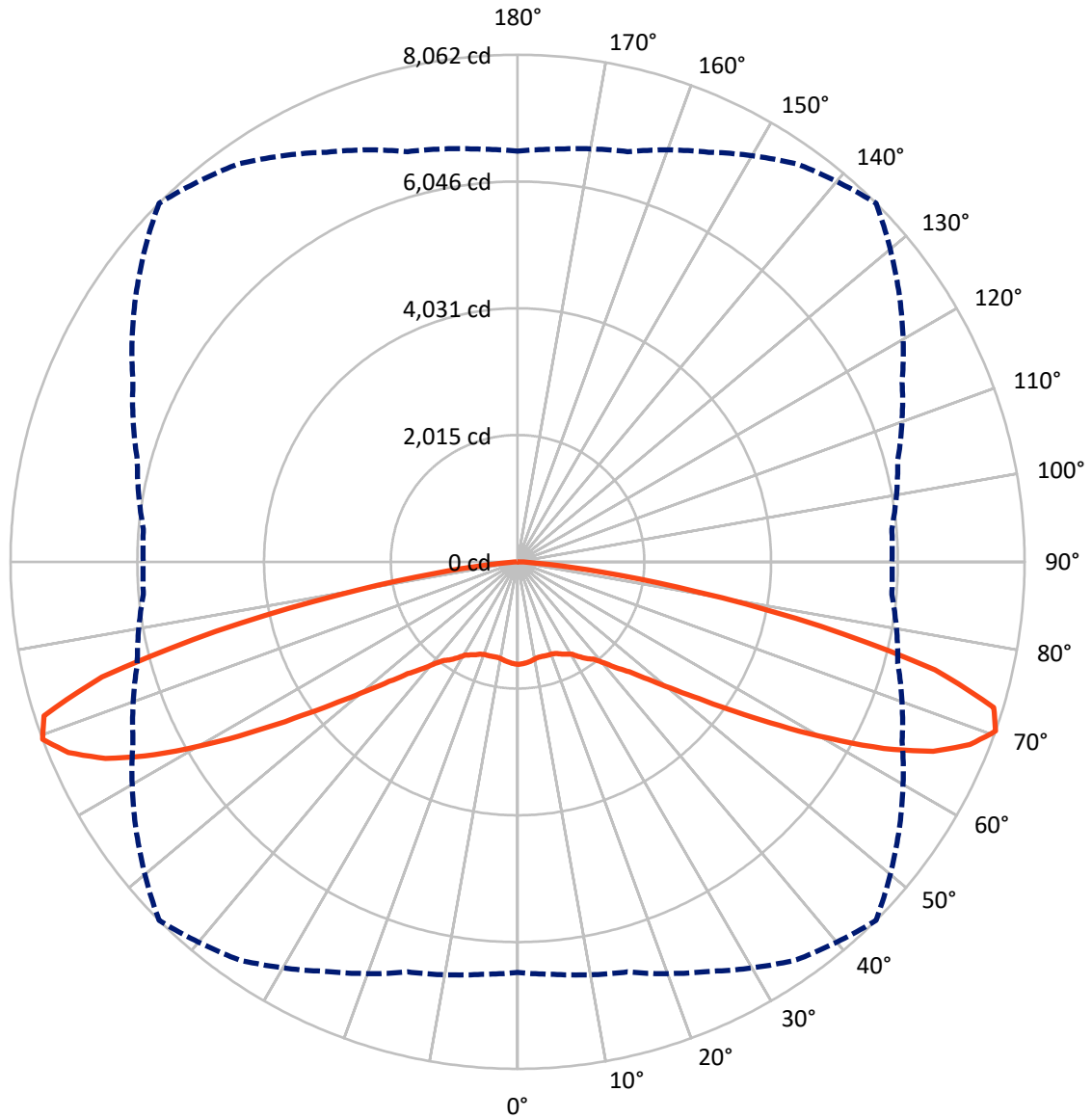
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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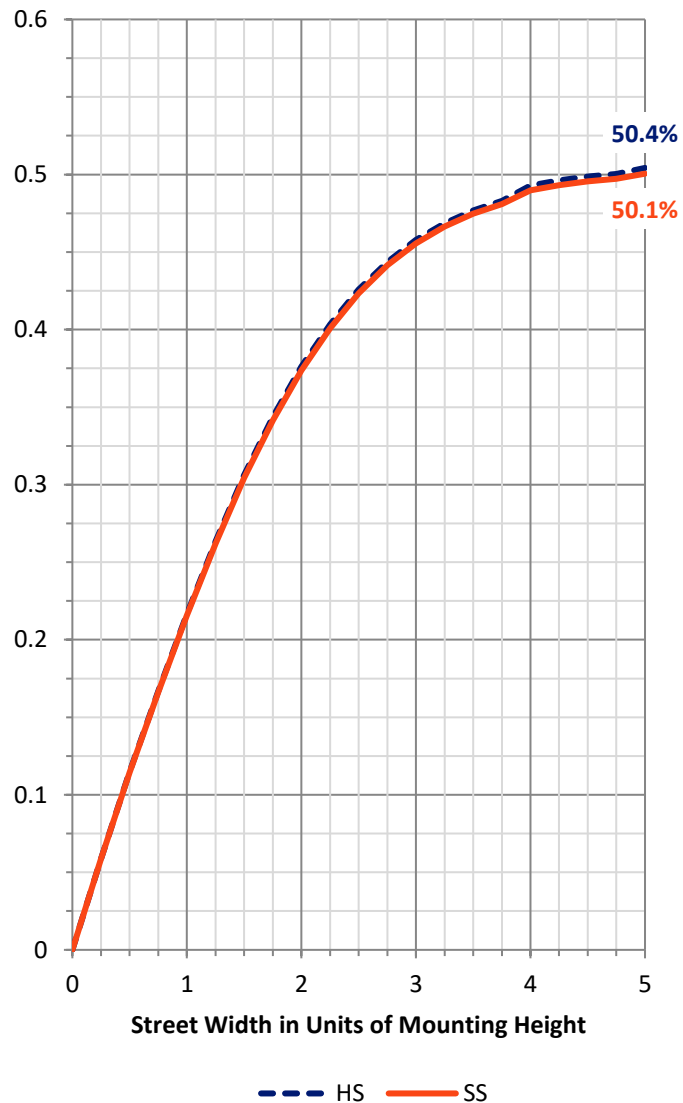
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9900.5 | 0.0 | 9900.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9900.5 | 0.0 | 9900.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19801.0 | 0.0 | 19801.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 152.1 | 0.8 |
| 10°-20° | 444.3 | 2.2 |
| 20°-30° | 757.5 | 3.8 |
| 30°-40° | 1183.6 | 6.0 |
| 40°-50° | 2005.9 | 10.1 |
| 50°-60° | 3658.0 | 18.5 |
| 60°-70° | 6297.4 | 31.8 |
| 70°-80° | 4936.2 | 24.9 |
| 80°-90° | 366.0 | 1.8 |
| 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° | 19801.0 | 100.0 |
| 0°-180° | 19801.0 | 100.0 |

Coefficient of Utilization



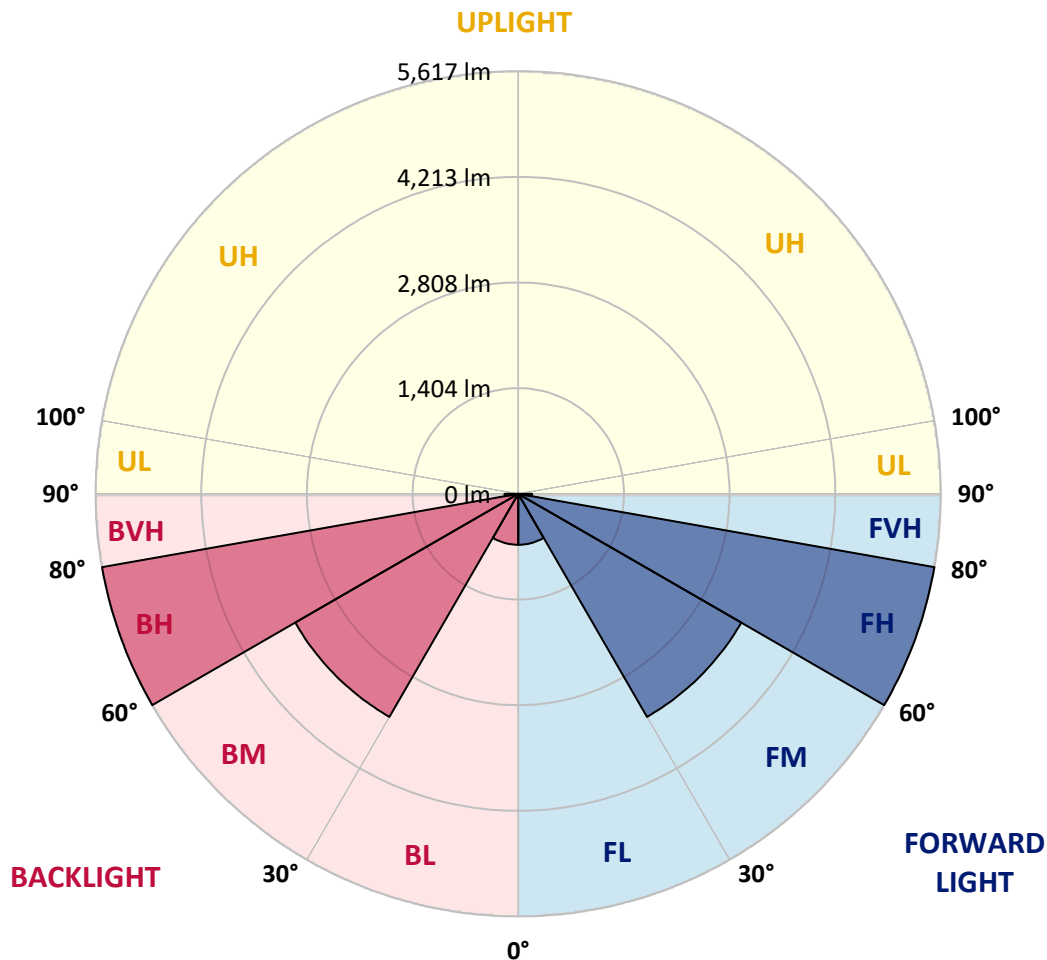
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 676.9 | 3.4 | | | |
| FM (30°-60°) | 3423.8 | 17.3 | | | |
| FH (60°-80°) | 5616.8 | 28.4 | | | G3/7500 |
| FVH (80°-90°) | 183.0 | 0.9 | | | G2/225 |
| BL (0°-30°) | 676.9 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 3423.8 | 17.3 | B3/5000 | | |
| BH (60°-80°) | 5616.8 | 28.4 | B5 | | G3/7500 |
| BVH (80°-90°) | 183.0 | 0.9 | | | G2/225 |
| 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° | 1629.6 | 1629.6 | 1629.6 | 1629.6 | 1629.6 | 1629.6 | 1629.6 | 1629.6 | 1629.6 | 1629.6 | 1629.6 |
| 2.5° | 1622.4 | 1624.4 | 1622.4 | 1623.7 | 1620.5 | 1621.8 | 1621.8 | 1621.8 | 1621.1 | 1621.8 | 1620.5 |
| 5° | 1608.0 | 1609.3 | 1606.7 | 1608.0 | 1606.0 | 1608.0 | 1608.7 | 1608.0 | 1606.7 | 1607.4 | 1604.7 |
| 7.5° | 1586.4 | 1587.7 | 1585.7 | 1587.7 | 1585.1 | 1588.4 | 1587.7 | 1585.7 | 1583.8 | 1583.8 | 1581.2 |
| 10° | 1574.6 | 1575.3 | 1570.0 | 1568.1 | 1562.2 | 1563.5 | 1565.4 | 1567.4 | 1569.4 | 1573.3 | 1572.6 |
| 12.5° | 1575.3 | 1575.3 | 1567.4 | 1558.9 | 1550.4 | 1552.3 | 1555.6 | 1562.8 | 1570.7 | 1577.9 | 1578.5 |
| 15° | 1581.8 | 1581.2 | 1569.4 | 1555.6 | 1549.7 | 1555.6 | 1557.6 | 1562.2 | 1574.6 | 1587.1 | 1587.7 |
| 17.5° | 1586.4 | 1586.4 | 1568.1 | 1552.3 | 1551.7 | 1560.9 | 1560.2 | 1562.2 | 1575.9 | 1594.3 | 1594.9 |
| 20° | 1594.9 | 1594.9 | 1571.3 | 1554.3 | 1554.3 | 1564.1 | 1564.8 | 1568.1 | 1581.8 | 1602.1 | 1605.4 |
| 22.5° | 1613.9 | 1614.6 | 1589.7 | 1575.9 | 1577.2 | 1583.1 | 1585.1 | 1590.3 | 1602.8 | 1625.0 | 1629.0 |
| 25° | 1640.8 | 1642.1 | 1616.5 | 1608.7 | 1613.3 | 1624.4 | 1623.1 | 1627.0 | 1640.8 | 1662.4 | 1666.3 |
| 27.5° | 1678.1 | 1674.8 | 1651.2 | 1648.0 | 1652.5 | 1660.4 | 1659.8 | 1660.4 | 1671.5 | 1691.2 | 1695.8 |
| 30° | 1726.6 | 1725.3 | 1708.2 | 1710.2 | 1708.2 | 1705.6 | 1706.3 | 1711.5 | 1717.4 | 1733.1 | 1737.7 |
| 32.5° | 1773.7 | 1775.0 | 1764.6 | 1774.4 | 1788.8 | 1798.6 | 1783.5 | 1769.1 | 1762.6 | 1771.1 | 1775.0 |
| 35° | 1858.9 | 1862.1 | 1845.8 | 1839.2 | 1858.9 | 1887.7 | 1845.1 | 1821.5 | 1834.6 | 1845.8 | 1849.0 |
| 37.5° | 2003.6 | 2005.6 | 1978.1 | 1951.9 | 1937.5 | 1965.0 | 1922.4 | 1924.4 | 1970.2 | 1991.2 | 1990.5 |
| 40° | 2168.7 | 2169.3 | 2151.0 | 2128.1 | 2103.2 | 2109.7 | 2092.7 | 2097.9 | 2128.1 | 2147.1 | 2152.3 |
| 42.5° | 2365.2 | 2363.2 | 2334.4 | 2301.6 | 2294.4 | 2301.0 | 2272.2 | 2268.2 | 2303.0 | 2337.0 | 2337.7 |
| 45° | 2620.0 | 2615.4 | 2578.1 | 2542.0 | 2507.3 | 2492.9 | 2485.7 | 2504.7 | 2552.5 | 2584.0 | 2584.6 |
| 47.5° | 2894.4 | 2882.0 | 2862.3 | 2833.5 | 2803.4 | 2789.0 | 2777.2 | 2786.3 | 2821.1 | 2833.5 | 2834.8 |
| 50° | 3176.7 | 3179.3 | 3183.3 | 3172.1 | 3161.0 | 3156.4 | 3125.6 | 3107.9 | 3118.4 | 3095.5 | 3092.2 |
| 52.5° | 3511.4 | 3516.7 | 3554.7 | 3586.7 | 3605.7 | 3615.6 | 3557.3 | 3496.4 | 3462.3 | 3417.8 | 3404.7 |
| 55° | 3906.4 | 3914.9 | 3970.6 | 4059.7 | 4151.4 | 4199.8 | 4094.4 | 3980.4 | 3874.9 | 3791.8 | 3764.9 |
| 57.5° | 4346.5 | 4361.6 | 4438.2 | 4609.2 | 4797.2 | 4911.8 | 4733.6 | 4526.7 | 4323.0 | 4203.1 | 4182.1 |
| 60° | 4862.7 | 4877.1 | 4983.2 | 5228.2 | 5532.7 | 5705.0 | 5435.1 | 5096.5 | 4843.0 | 4728.4 | 4689.8 |
| 62.5° | 5477.1 | 5478.4 | 5608.7 | 5894.9 | 6297.1 | 6536.8 | 6171.4 | 5718.8 | 5457.4 | 5319.2 | 5281.9 |
| 65° | 6137.9 | 6141.2 | 6276.2 | 6585.3 | 7001.2 | 7261.9 | 6849.3 | 6377.7 | 6058.0 | 5854.3 | 5825.5 |
| 67.5° | 6605.0 | 6618.7 | 6760.8 | 7132.9 | 7522.0 | 7757.1 | 7330.0 | 6796.9 | 6427.5 | 6184.5 | 6160.2 |
| 70° | 6530.3 | 6584.0 | 6751.0 | 7185.3 | 7726.3 | 8061.7 | 7408.0 | 6747.1 | 6259.8 | 5972.9 | 5952.6 |
| 72.5° | 5695.2 | 5798.0 | 6020.7 | 6590.5 | 7455.8 | 7917.6 | 6982.9 | 6043.0 | 5491.5 | 5247.2 | 5210.5 |
| 75° | 3878.2 | 4045.2 | 4381.3 | 5203.3 | 6369.8 | 6855.2 | 5878.6 | 4818.1 | 4299.4 | 3961.4 | 3936.5 |
| 77.5° | 1729.2 | 1767.2 | 2192.9 | 3139.4 | 4395.7 | 4922.9 | 4271.2 | 3151.8 | 2365.8 | 1887.0 | 1786.2 |
| 80° | 482.1 | 488.0 | 651.1 | 1169.2 | 2200.1 | 2892.5 | 2361.9 | 1228.1 | 690.4 | 486.7 | 458.5 |
| 82.5° | 153.3 | 166.4 | 203.0 | 303.3 | 739.5 | 1319.8 | 759.1 | 327.5 | 233.2 | 186.0 | 167.7 |
| 85° | 74.7 | 74.0 | 102.8 | 123.1 | 188.6 | 292.1 | 201.1 | 152.0 | 133.0 | 88.4 | 79.9 |
| 87.5° | 31.4 | 32.1 | 47.8 | 43.2 | 55.0 | 47.2 | 64.8 | 68.1 | 71.4 | 39.3 | 34.1 |
| 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)