

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: P399686

Luminaire Tested: **ARCH-L-PA3-180-722-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-180-722-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20270 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

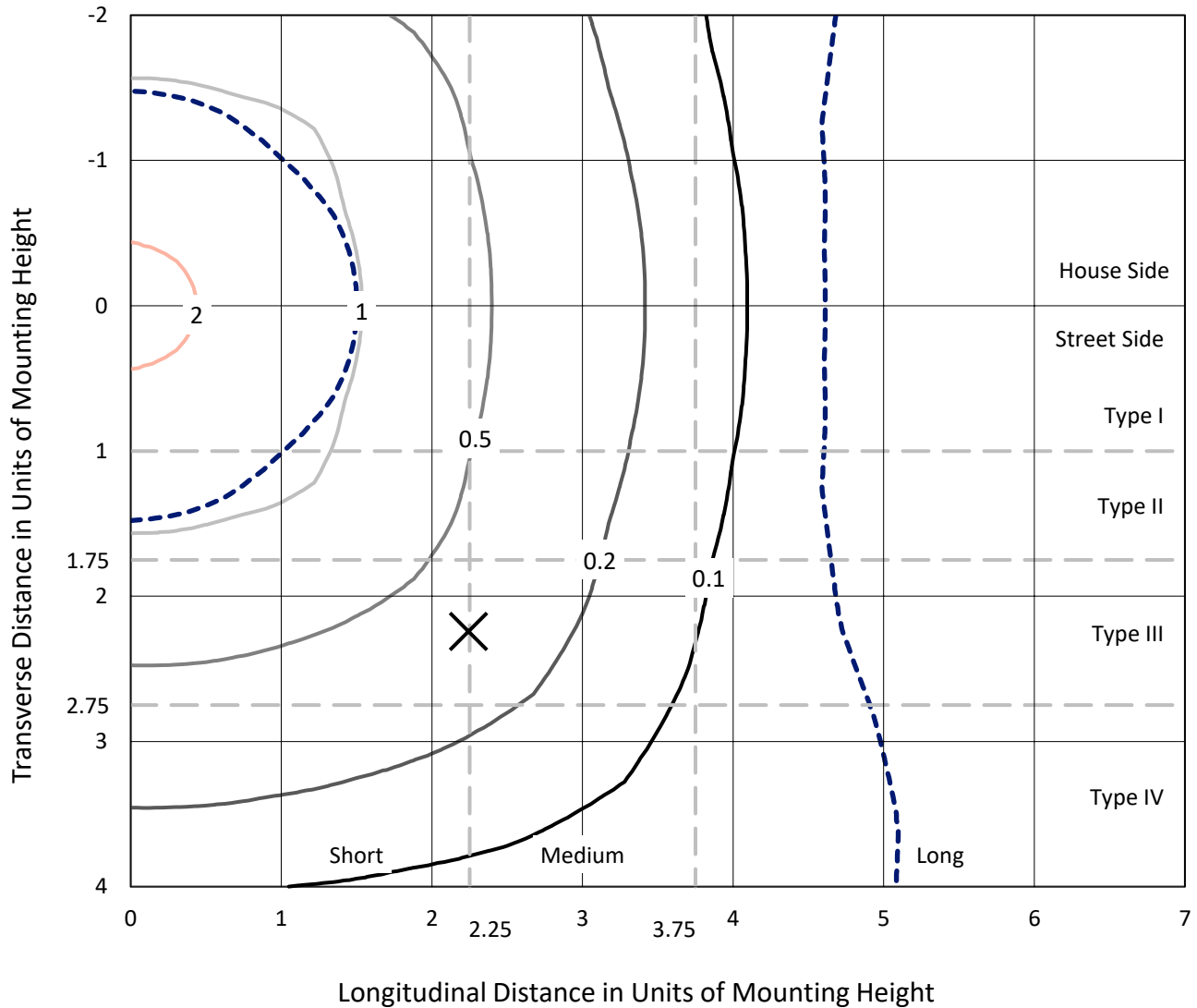
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

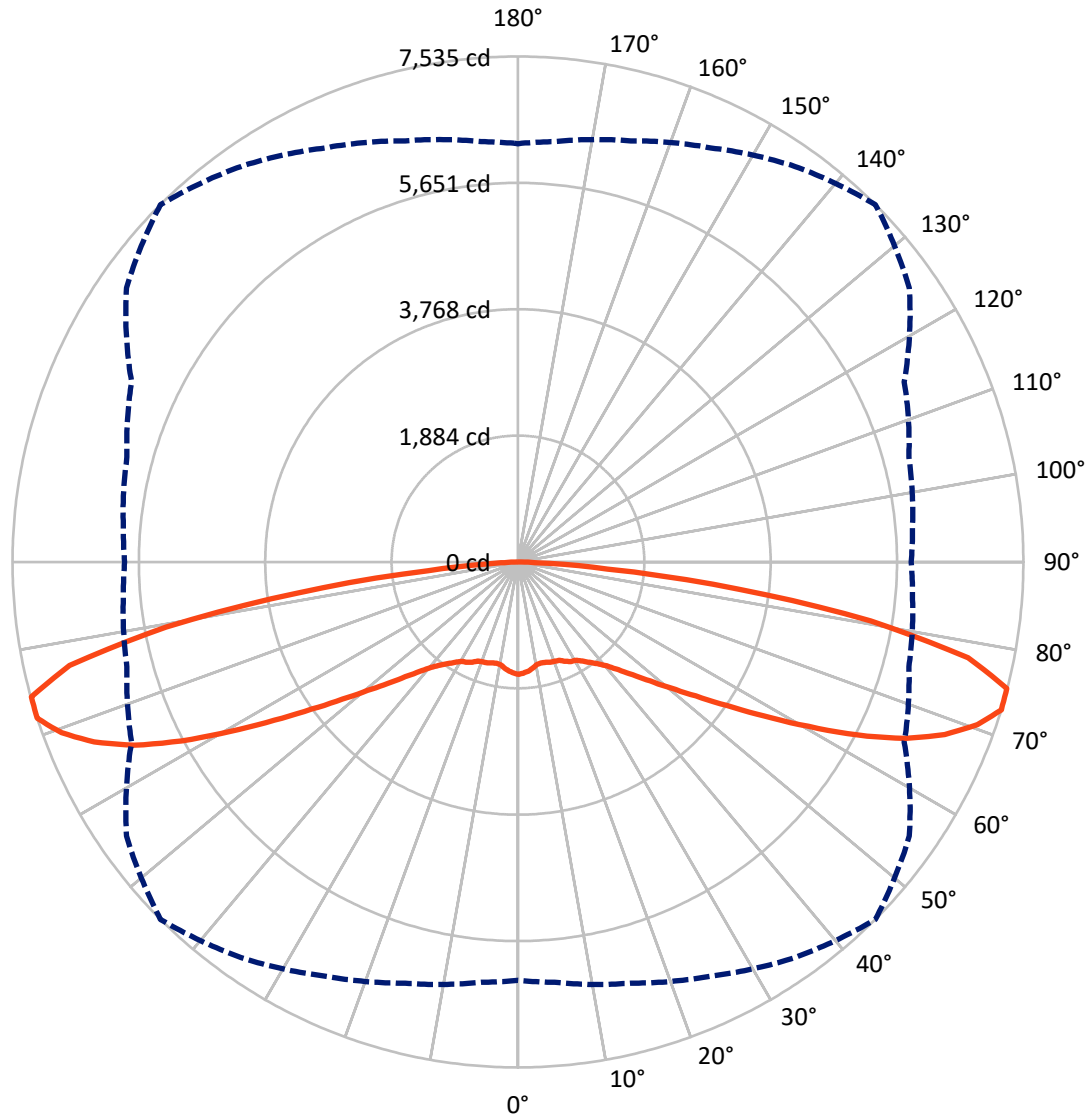
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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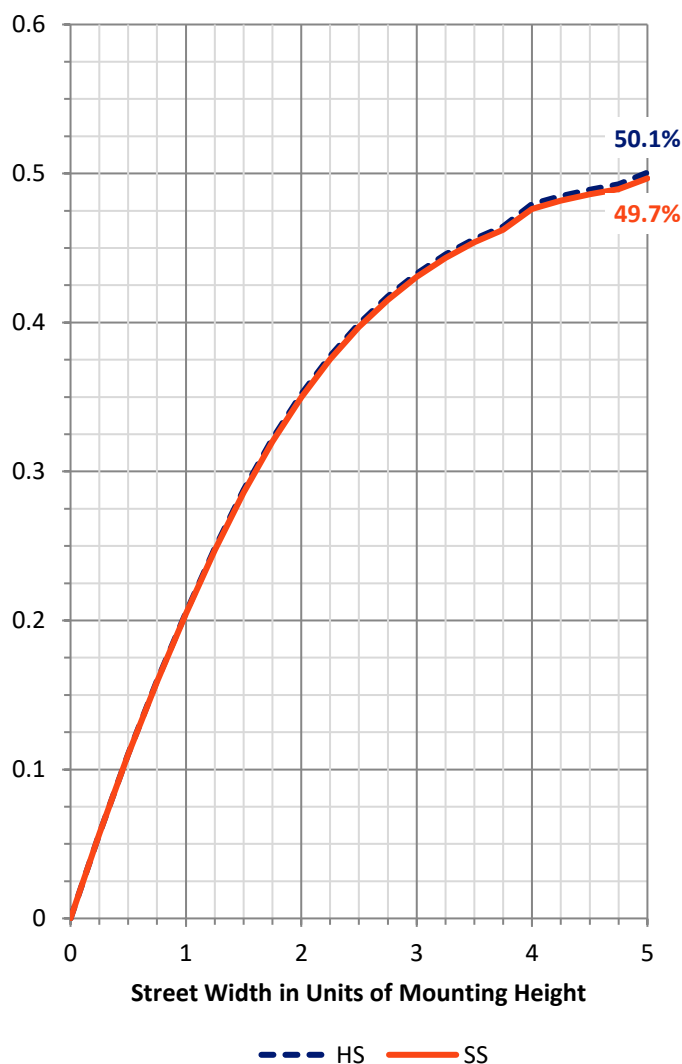
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10135.0 | 0.0 | 10135.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10135.0 | 0.0 | 10135.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20270.0 | 0.0 | 20270.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 153.8 | 0.8 |
| 10°-20° | 446.5 | 2.2 |
| 20°-30° | 758.6 | 3.7 |
| 30°-40° | 1157.1 | 5.7 |
| 40°-50° | 1905.3 | 9.4 |
| 50°-60° | 3327.2 | 16.4 |
| 60°-70° | 5578.1 | 27.5 |
| 70°-80° | 5969.7 | 29.5 |
| 80°-90° | 973.7 | 4.8 |
| 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° | 20270.0 | 100.0 |
| 0°-180° | 20270.0 | 100.0 |

Coefficient of Utilization



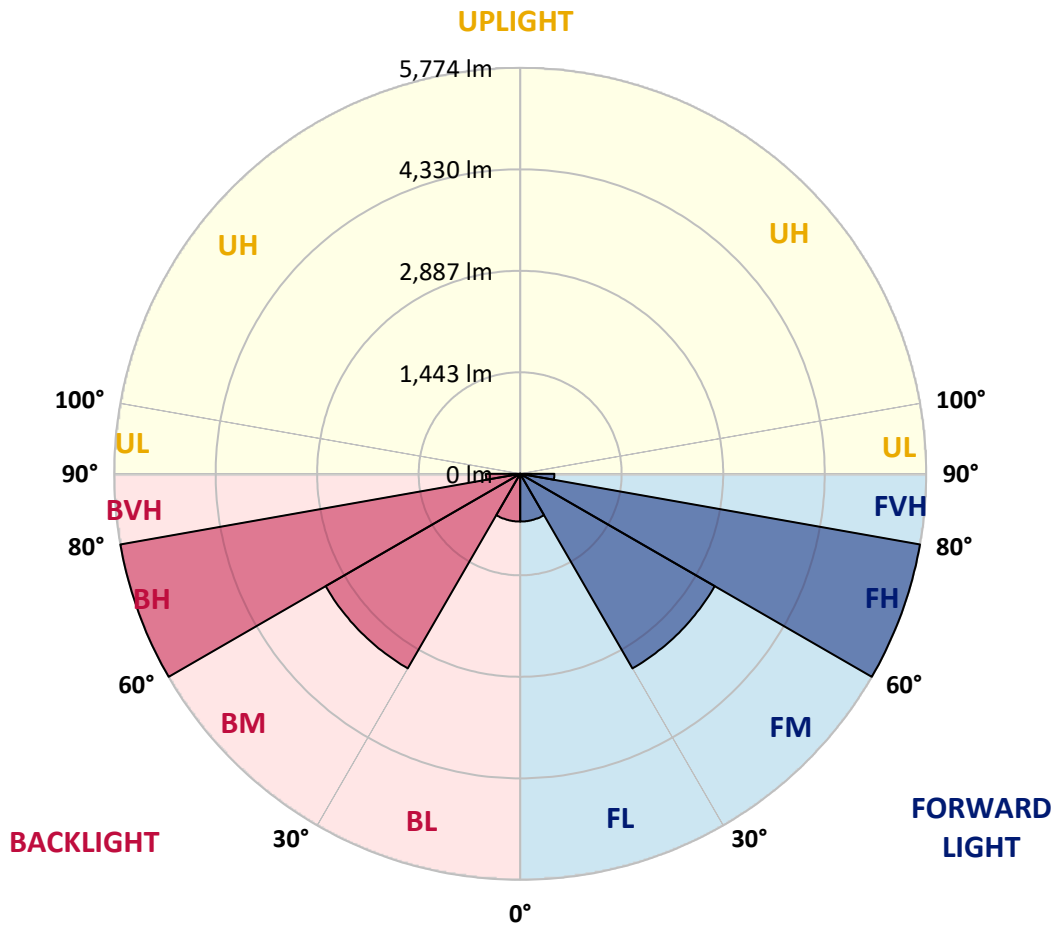
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 679.4 | 3.4 | | | |
| FM (30°-60°) | 3194.8 | 15.8 | | | |
| FH (60°-80°) | 5773.9 | 28.5 | | | G3/7500 |
| FVH (80°-90°) | 486.8 | 2.4 | | | G3/500 |
| BL (0°-30°) | 679.4 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 3194.8 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 5773.9 | 28.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 486.8 | 2.4 | | | G3/500 |
| 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° | 1677.4 | 1677.4 | 1677.4 | 1677.4 | 1677.4 | 1677.4 | 1677.4 | 1677.4 | 1677.4 | 1677.4 | 1677.4 |
| 2.5° | 1667.0 | 1667.0 | 1667.0 | 1664.4 | 1659.2 | 1656.7 | 1651.5 | 1654.1 | 1654.1 | 1654.1 | 1654.1 |
| 5° | 1646.3 | 1646.3 | 1643.7 | 1641.1 | 1635.9 | 1633.4 | 1628.2 | 1633.4 | 1633.4 | 1633.4 | 1633.4 |
| 7.5° | 1607.5 | 1610.1 | 1610.1 | 1607.5 | 1599.7 | 1597.1 | 1589.4 | 1591.9 | 1591.9 | 1594.5 | 1591.9 |
| 10° | 1586.8 | 1586.8 | 1584.2 | 1571.2 | 1558.3 | 1553.1 | 1550.5 | 1558.3 | 1566.1 | 1573.8 | 1573.8 |
| 12.5° | 1586.8 | 1586.8 | 1581.6 | 1560.9 | 1542.8 | 1542.8 | 1542.8 | 1553.1 | 1568.6 | 1584.2 | 1586.8 |
| 15° | 1594.5 | 1594.5 | 1584.2 | 1560.9 | 1550.5 | 1553.1 | 1553.1 | 1563.5 | 1581.6 | 1602.3 | 1604.9 |
| 17.5° | 1599.7 | 1599.7 | 1586.8 | 1563.5 | 1563.5 | 1571.2 | 1566.1 | 1573.8 | 1591.9 | 1615.2 | 1617.8 |
| 20° | 1607.5 | 1607.5 | 1589.4 | 1571.2 | 1571.2 | 1579.0 | 1579.0 | 1586.8 | 1602.3 | 1625.6 | 1628.2 |
| 22.5° | 1623.0 | 1620.4 | 1602.3 | 1586.8 | 1586.8 | 1591.9 | 1597.1 | 1607.5 | 1620.4 | 1641.1 | 1646.3 |
| 25° | 1641.1 | 1641.1 | 1625.6 | 1623.0 | 1628.2 | 1641.1 | 1638.5 | 1635.9 | 1641.1 | 1659.2 | 1667.0 |
| 27.5° | 1651.5 | 1651.5 | 1641.1 | 1648.9 | 1669.6 | 1680.0 | 1667.0 | 1656.7 | 1656.7 | 1674.8 | 1677.4 |
| 30° | 1685.1 | 1682.5 | 1672.2 | 1677.4 | 1695.5 | 1700.7 | 1692.9 | 1680.0 | 1687.7 | 1708.4 | 1711.0 |
| 32.5° | 1742.1 | 1742.1 | 1726.5 | 1726.5 | 1739.5 | 1760.2 | 1734.3 | 1726.5 | 1736.9 | 1760.2 | 1762.8 |
| 35° | 1830.1 | 1830.1 | 1809.4 | 1799.0 | 1809.4 | 1837.9 | 1799.0 | 1796.4 | 1814.6 | 1840.4 | 1843.0 |
| 37.5° | 1941.4 | 1941.4 | 1928.5 | 1902.6 | 1905.2 | 1923.3 | 1889.6 | 1887.0 | 1920.7 | 1949.2 | 1949.2 |
| 40° | 2081.2 | 2088.9 | 2076.0 | 2044.9 | 2034.6 | 2037.2 | 2011.3 | 2013.9 | 2052.7 | 2086.4 | 2086.4 |
| 42.5° | 2254.6 | 2259.8 | 2239.1 | 2215.8 | 2202.8 | 2195.1 | 2169.2 | 2174.4 | 2221.0 | 2265.0 | 2265.0 |
| 45° | 2464.3 | 2466.9 | 2446.2 | 2417.7 | 2402.2 | 2397.0 | 2371.1 | 2384.0 | 2435.8 | 2482.4 | 2479.8 |
| 47.5° | 2699.8 | 2702.4 | 2681.7 | 2653.2 | 2642.9 | 2650.7 | 2624.8 | 2624.8 | 2671.4 | 2710.2 | 2705.0 |
| 50° | 2966.5 | 2971.6 | 2948.3 | 2935.4 | 2927.6 | 2948.3 | 2917.3 | 2888.8 | 2919.9 | 2958.7 | 2953.5 |
| 52.5° | 3261.5 | 3274.5 | 3259.0 | 3264.1 | 3292.6 | 3318.5 | 3266.7 | 3204.6 | 3220.1 | 3246.0 | 3238.2 |
| 55° | 3618.8 | 3634.3 | 3639.5 | 3657.6 | 3732.7 | 3776.7 | 3691.2 | 3587.7 | 3579.9 | 3582.5 | 3569.6 |
| 57.5° | 4020.0 | 4030.3 | 4064.0 | 4105.4 | 4260.7 | 4330.6 | 4196.0 | 4017.4 | 3960.4 | 3926.8 | 3919.0 |
| 60° | 4423.8 | 4441.9 | 4524.7 | 4610.2 | 4848.3 | 4975.1 | 4768.1 | 4467.8 | 4346.1 | 4284.0 | 4271.1 |
| 62.5° | 4830.2 | 4866.4 | 5001.0 | 5146.0 | 5492.9 | 5681.8 | 5363.4 | 4928.6 | 4752.5 | 4674.9 | 4654.2 |
| 65° | 5301.3 | 5345.3 | 5508.4 | 5692.2 | 6077.9 | 6344.5 | 5958.8 | 5404.8 | 5215.9 | 5112.3 | 5086.5 |
| 67.5° | 5852.7 | 5899.3 | 6031.3 | 6235.8 | 6600.7 | 6862.2 | 6520.5 | 5891.5 | 5645.6 | 5513.6 | 5492.9 |
| 70° | 6305.7 | 6347.1 | 6489.4 | 6696.5 | 6968.3 | 7266.0 | 6939.8 | 6279.8 | 6057.2 | 5964.0 | 5951.0 |
| 72.5° | 6235.8 | 6290.1 | 6499.8 | 6810.4 | 7198.7 | 7535.2 | 7123.6 | 6354.8 | 6033.9 | 5904.4 | 5863.0 |
| 75° | 5446.3 | 5505.8 | 5754.3 | 6316.0 | 7025.3 | 7527.4 | 6857.0 | 5855.2 | 5477.3 | 5368.6 | 5347.9 |
| 77.5° | 3605.8 | 3662.8 | 4082.1 | 4967.4 | 6134.8 | 6859.6 | 6052.0 | 4905.3 | 4297.0 | 4035.5 | 4020.0 |
| 80° | 1457.3 | 1529.8 | 1931.0 | 2870.7 | 4348.7 | 5332.4 | 4488.5 | 3139.9 | 2117.4 | 1708.4 | 1625.6 |
| 82.5° | 339.1 | 403.8 | 587.6 | 1058.7 | 2226.1 | 3321.1 | 2420.3 | 1172.6 | 680.8 | 484.1 | 434.9 |
| 85° | 142.4 | 145.0 | 251.1 | 344.3 | 696.3 | 1340.9 | 792.1 | 427.1 | 346.9 | 253.7 | 248.5 |
| 87.5° | 54.4 | 56.9 | 121.7 | 145.0 | 222.6 | 253.7 | 269.2 | 220.0 | 204.5 | 126.8 | 121.7 |
| 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)