

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: P482544

Luminaire Tested: **IFLD-M-SA4A-760-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482544
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-760-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

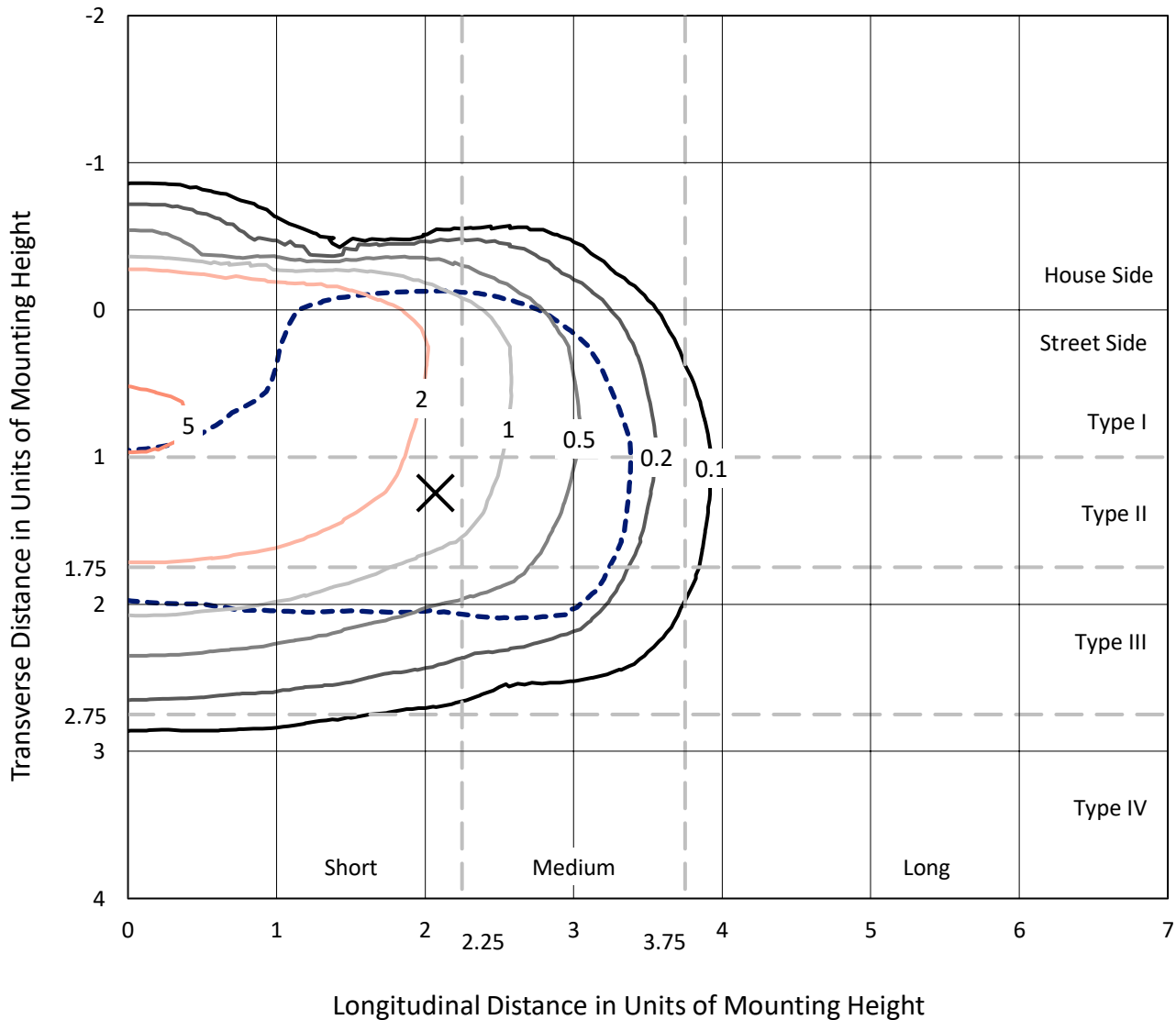
Lumens per Lamp: N/A
Luminaire Lumens: 14017.1 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
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

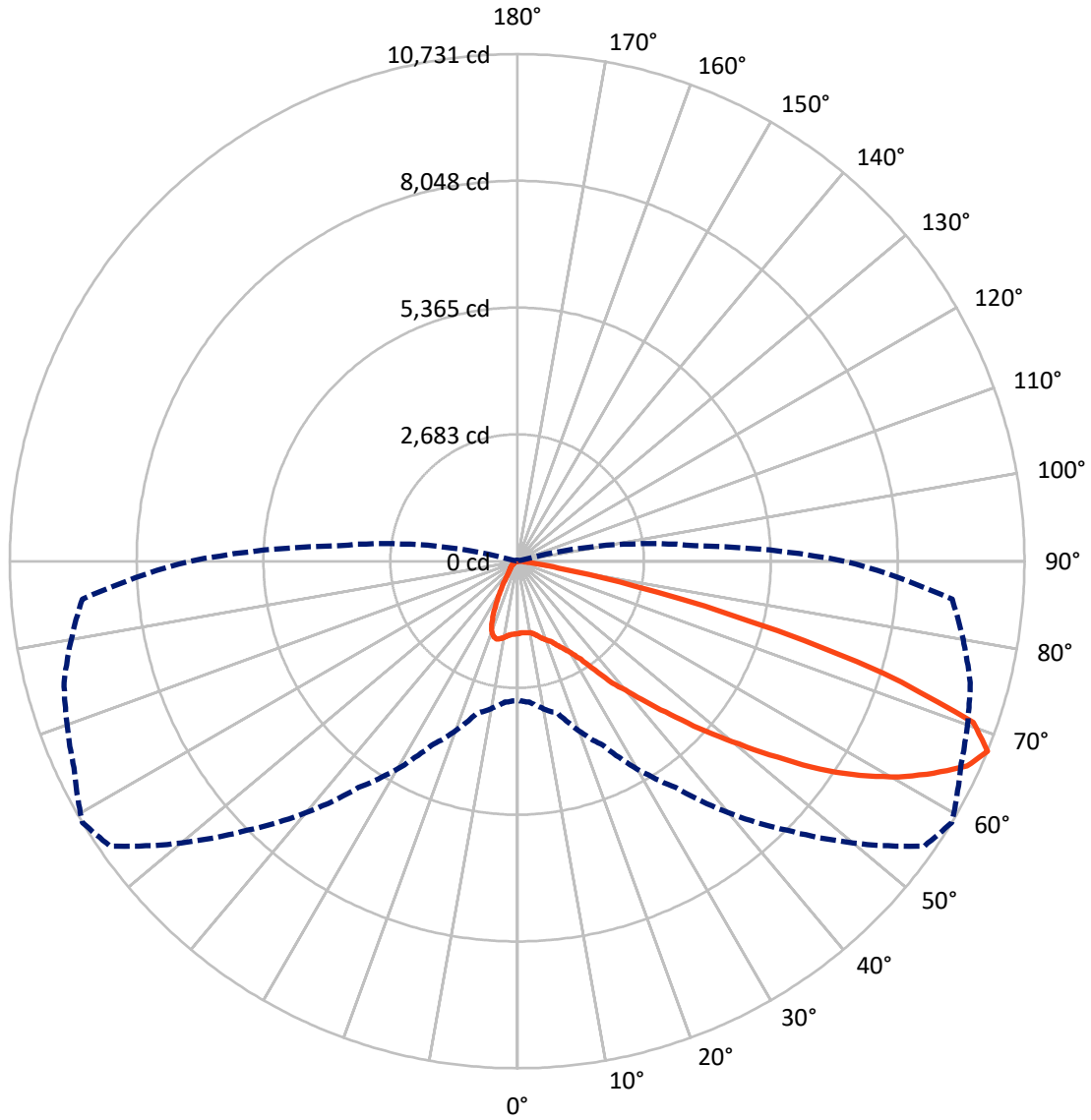
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1646.5 | 0.0 | 1646.5 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 12370.5 | 0.0 | 12370.5 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 14017.1 | 0.0 | 14017.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 146.0 | 1.0 |
| 10°-20° | 421.8 | 3.0 |
| 20°-30° | 737.3 | 5.3 |
| 30°-40° | 1298.1 | 9.3 |
| 40°-50° | 2294.6 | 16.4 |
| 50°-60° | 3633.1 | 25.9 |
| 60°-70° | 4030.1 | 28.8 |
| 70°-80° | 1398.4 | 10.0 |
| 80°-90° | 57.6 | 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° | 14017.1 | 100.0 |
| 0°-180° | 14017.1 | 100.0 |

Coefficient of Utilization

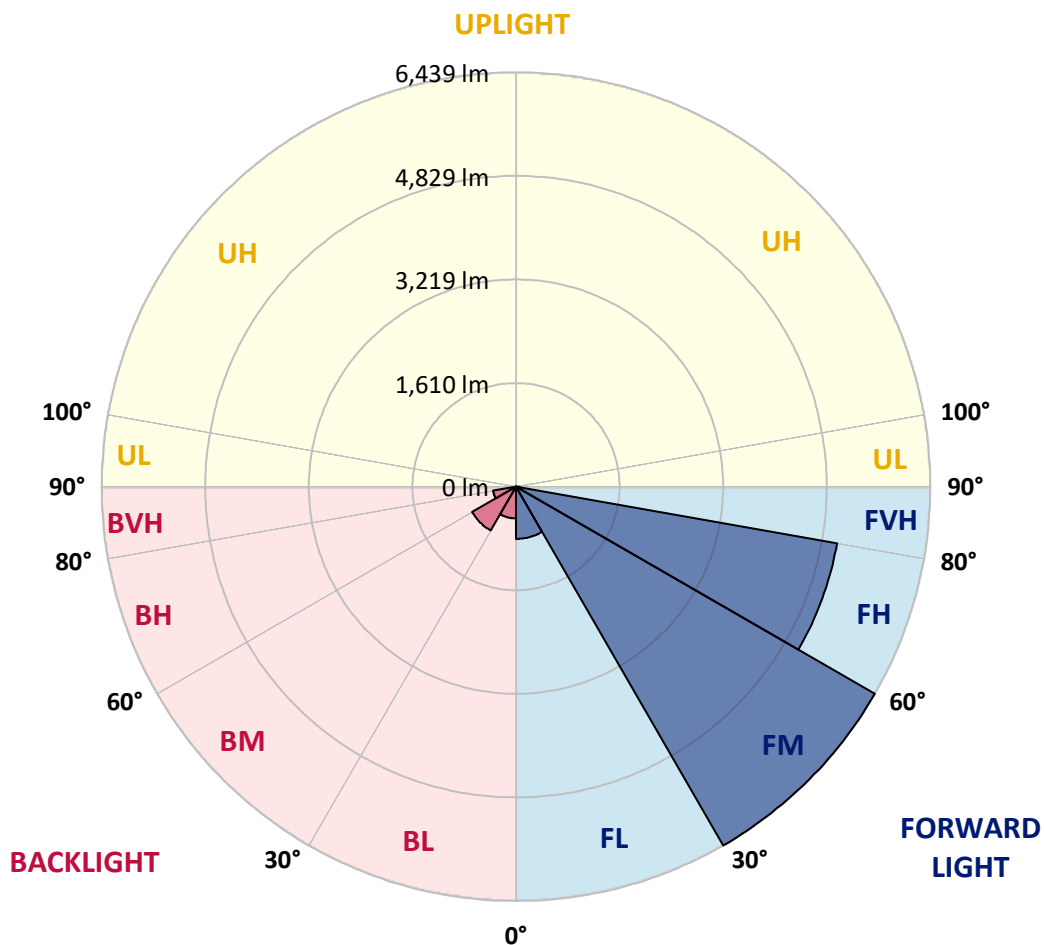


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 811.7 | 5.8 | | | |
| FM (30°-60°) | 6438.5 | 45.9 | | | |
| FH (60°-80°) | 5066.4 | 36.1 | | | G3/7500 |
| FVH (80°-90°) | 53.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 493.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 787.2 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 362.1 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 |
| 2.5° | 1492.9 | 1471.6 | 1490.9 | 1492.9 | 1494.8 | 1512.2 | 1531.6 | 1518.1 | 1516.1 | 1531.6 | 1545.2 |
| 5° | 1432.9 | 1423.2 | 1446.4 | 1458.0 | 1477.4 | 1492.9 | 1523.9 | 1525.8 | 1527.7 | 1545.2 | 1568.4 |
| 7.5° | 1407.7 | 1384.5 | 1411.6 | 1425.1 | 1438.7 | 1475.5 | 1512.2 | 1531.6 | 1558.7 | 1580.0 | 1603.3 |
| 10° | 1357.3 | 1374.8 | 1382.5 | 1405.7 | 1444.5 | 1487.1 | 1531.6 | 1541.3 | 1601.3 | 1618.7 | 1674.9 |
| 12.5° | 1374.8 | 1386.4 | 1401.9 | 1407.7 | 1450.3 | 1514.2 | 1574.2 | 1578.1 | 1640.0 | 1715.6 | 1744.6 |
| 15° | 1419.3 | 1411.6 | 1417.4 | 1425.1 | 1475.5 | 1527.7 | 1624.6 | 1642.0 | 1700.1 | 1785.3 | 1856.9 |
| 17.5° | 1514.2 | 1500.6 | 1490.9 | 1489.0 | 1500.6 | 1549.0 | 1663.3 | 1715.6 | 1769.8 | 1886.0 | 1922.7 |
| 20° | 1752.3 | 1740.7 | 1702.0 | 1601.3 | 1566.5 | 1585.8 | 1709.7 | 1783.3 | 1858.8 | 1988.6 | 2048.6 |
| 22.5° | 2114.4 | 2126.1 | 2035.0 | 1893.7 | 1748.5 | 1673.0 | 1783.3 | 1847.2 | 1967.3 | 2131.9 | 2186.1 |
| 25° | 2542.4 | 2519.1 | 2408.7 | 2244.2 | 2015.7 | 1837.5 | 1901.4 | 1973.1 | 2120.2 | 2255.8 | 2277.1 |
| 27.5° | 2877.3 | 2850.2 | 2765.0 | 2565.6 | 2368.1 | 2079.6 | 2056.3 | 2100.9 | 2275.1 | 2397.1 | 2373.9 |
| 30° | 3208.4 | 3218.1 | 3160.0 | 2923.8 | 2679.8 | 2375.8 | 2228.7 | 2248.0 | 2381.6 | 2538.5 | 2486.2 |
| 32.5° | 3630.6 | 3607.3 | 3574.4 | 3367.2 | 3078.7 | 2753.4 | 2501.7 | 2470.7 | 2528.8 | 2736.0 | 2674.0 |
| 35° | 4023.6 | 4010.1 | 3965.5 | 3756.4 | 3504.7 | 3150.4 | 2904.4 | 2834.7 | 2821.2 | 3051.6 | 2943.2 |
| 37.5° | 4366.3 | 4343.1 | 4275.3 | 4141.7 | 3897.8 | 3599.6 | 3330.4 | 3268.5 | 3266.5 | 3425.3 | 3216.2 |
| 40° | 4654.9 | 4672.3 | 4664.5 | 4517.4 | 4383.8 | 4145.6 | 3733.2 | 3634.4 | 3626.7 | 3711.9 | 3589.9 |
| 42.5° | 5028.6 | 5069.2 | 5047.9 | 5018.9 | 4858.2 | 4765.2 | 4298.6 | 4147.5 | 4079.8 | 4254.0 | 4143.7 |
| 45° | 5594.0 | 5609.4 | 5623.0 | 5551.4 | 5390.6 | 5410.0 | 4883.3 | 4703.3 | 4685.8 | 4945.3 | 4697.4 |
| 47.5° | 6122.6 | 6081.9 | 6176.8 | 6180.6 | 6172.9 | 6083.8 | 5514.6 | 5381.0 | 5404.2 | 5601.7 | 5346.1 |
| 50° | 6254.2 | 6358.8 | 6620.2 | 6668.6 | 6794.5 | 6875.8 | 6215.5 | 6081.9 | 6120.6 | 6345.2 | 6052.9 |
| 52.5° | 6356.9 | 6515.6 | 6777.0 | 7131.4 | 7470.2 | 7663.9 | 6999.7 | 6891.3 | 6889.3 | 7026.8 | 6624.1 |
| 55° | 6536.9 | 6633.7 | 6860.3 | 7348.2 | 7993.0 | 8310.6 | 7944.6 | 7770.3 | 7613.5 | 7710.3 | 7216.6 |
| 57.5° | 6519.5 | 6556.3 | 6908.7 | 7510.9 | 8407.4 | 8984.4 | 8721.1 | 8554.5 | 8353.2 | 8297.0 | 7898.1 |
| 60° | 6213.6 | 6300.7 | 6695.7 | 7400.5 | 8663.0 | 9509.1 | 9445.2 | 9274.8 | 8928.3 | 8796.6 | 8420.9 |
| 62.5° | 5607.5 | 5723.7 | 6033.5 | 7013.3 | 8291.2 | 9536.2 | 9944.8 | 9880.9 | 9493.6 | 9257.4 | 9102.5 |
| 65° | 4544.5 | 4598.7 | 4955.0 | 6029.6 | 7450.9 | 9119.9 | 10535.4 | 10456.0 | 10099.7 | 9747.3 | 9453.0 |
| 67.5° | 2943.2 | 2995.4 | 3338.2 | 4304.4 | 5851.5 | 8045.3 | 10512.1 | 10730.9 | 10345.6 | 9921.6 | 9234.2 |
| 70° | 1390.3 | 1376.7 | 1696.2 | 2391.3 | 3748.7 | 6143.9 | 9801.5 | 10233.3 | 9906.1 | 8994.1 | 7669.7 |
| 72.5° | 424.0 | 460.8 | 704.8 | 1059.2 | 1924.7 | 3831.9 | 7683.2 | 8087.9 | 7985.3 | 7185.6 | 5119.6 |
| 75° | 187.8 | 203.3 | 276.9 | 433.7 | 780.3 | 1572.3 | 4745.9 | 5106.0 | 5061.5 | 4238.5 | 2337.1 |
| 77.5° | 120.1 | 131.7 | 174.3 | 247.8 | 354.3 | 499.6 | 2186.1 | 2536.5 | 2459.1 | 1489.0 | 611.9 |
| 80° | 85.2 | 91.0 | 123.9 | 170.4 | 222.7 | 205.2 | 753.2 | 894.6 | 857.8 | 404.7 | 164.6 |
| 82.5° | 46.5 | 50.3 | 91.0 | 125.9 | 149.1 | 104.6 | 211.1 | 263.3 | 275.0 | 180.1 | 79.4 |
| 85° | 17.4 | 21.3 | 56.2 | 89.1 | 77.5 | 48.4 | 62.0 | 75.5 | 98.8 | 98.8 | 36.8 |
| 87.5° | 0.0 | 1.9 | 23.2 | 38.7 | 19.4 | 13.6 | 17.4 | 21.3 | 27.1 | 46.5 | 13.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 | 1537.4 |
| 2.5° | 1554.8 | 1541.3 | 1547.1 | 1556.8 | 1535.5 | 1547.1 | 1523.9 | 1541.3 | 1547.1 | 1523.9 | 1535.5 |
| 5° | 1574.2 | 1587.8 | 1580.0 | 1564.5 | 1551.0 | 1554.8 | 1549.0 | 1535.5 | 1547.1 | 1551.0 | 1543.2 |
| 7.5° | 1630.4 | 1614.9 | 1618.7 | 1601.3 | 1574.2 | 1572.3 | 1535.5 | 1525.8 | 1529.7 | 1533.5 | 1520.0 |
| 10° | 1682.6 | 1692.3 | 1673.0 | 1659.4 | 1614.9 | 1585.8 | 1535.5 | 1481.3 | 1475.5 | 1452.2 | 1471.6 |
| 12.5° | 1775.6 | 1752.3 | 1744.6 | 1700.1 | 1655.5 | 1558.7 | 1450.3 | 1367.0 | 1297.3 | 1272.1 | 1247.0 |
| 15° | 1853.0 | 1849.2 | 1835.6 | 1767.8 | 1665.2 | 1489.0 | 1283.8 | 1090.1 | 956.5 | 873.3 | 861.7 |
| 17.5° | 1959.5 | 1942.1 | 1916.9 | 1810.4 | 1593.6 | 1307.0 | 956.5 | 712.6 | 579.0 | 526.7 | 507.3 |
| 20° | 2040.9 | 2027.3 | 1992.4 | 1800.8 | 1463.8 | 974.0 | 592.5 | 453.1 | 420.2 | 410.5 | 412.4 |
| 22.5° | 2159.0 | 2116.4 | 2050.5 | 1752.3 | 1227.6 | 648.7 | 426.0 | 404.7 | 398.9 | 391.1 | 393.1 |
| 25° | 2261.6 | 2222.9 | 2085.4 | 1669.1 | 875.2 | 429.9 | 395.0 | 383.4 | 373.7 | 364.0 | 362.1 |
| 27.5° | 2352.6 | 2304.2 | 2122.2 | 1498.7 | 548.0 | 369.8 | 366.0 | 352.4 | 333.0 | 317.6 | 311.7 |
| 30° | 2441.7 | 2385.5 | 2131.9 | 1179.2 | 369.8 | 335.0 | 325.3 | 304.0 | 278.8 | 257.5 | 253.7 |
| 32.5° | 2590.8 | 2523.0 | 2118.3 | 842.3 | 319.5 | 298.2 | 276.9 | 251.7 | 214.9 | 197.5 | 193.6 |
| 35° | 2823.1 | 2720.5 | 2100.9 | 495.7 | 286.6 | 263.3 | 230.4 | 197.5 | 170.4 | 153.0 | 149.1 |
| 37.5° | 3090.3 | 2912.2 | 2050.5 | 331.1 | 263.3 | 232.4 | 189.8 | 156.8 | 133.6 | 120.1 | 116.2 |
| 40° | 3487.3 | 3192.9 | 1856.9 | 271.1 | 234.3 | 197.5 | 153.0 | 123.9 | 106.5 | 96.8 | 92.9 |
| 42.5° | 3924.9 | 3514.4 | 1558.7 | 244.0 | 207.2 | 168.5 | 122.0 | 100.7 | 87.1 | 77.5 | 77.5 |
| 45° | 4449.6 | 3849.4 | 1202.4 | 222.7 | 183.9 | 139.4 | 100.7 | 81.3 | 69.7 | 62.0 | 58.1 |
| 47.5° | 5034.4 | 4153.4 | 811.3 | 201.4 | 154.9 | 114.2 | 83.3 | 62.0 | 50.3 | 44.5 | 44.5 |
| 50° | 5557.2 | 4422.5 | 517.0 | 176.2 | 135.5 | 94.9 | 67.8 | 50.3 | 40.7 | 32.9 | 31.0 |
| 52.5° | 6031.6 | 4627.7 | 356.3 | 154.9 | 116.2 | 77.5 | 56.2 | 40.7 | 31.0 | 25.2 | 25.2 |
| 55° | 6517.6 | 4732.3 | 263.3 | 133.6 | 100.7 | 65.8 | 46.5 | 36.8 | 27.1 | 21.3 | 19.4 |
| 57.5° | 6916.4 | 4776.8 | 201.4 | 116.2 | 85.2 | 52.3 | 40.7 | 31.0 | 23.2 | 17.4 | 15.5 |
| 60° | 7257.2 | 4755.5 | 156.8 | 96.8 | 67.8 | 44.5 | 34.9 | 25.2 | 19.4 | 13.6 | 11.6 |
| 62.5° | 7456.7 | 4627.7 | 123.9 | 83.3 | 54.2 | 38.7 | 29.0 | 21.3 | 13.6 | 9.7 | 7.7 |
| 65° | 7460.5 | 4356.7 | 96.8 | 62.0 | 40.7 | 32.9 | 25.2 | 17.4 | 9.7 | 3.9 | 1.9 |
| 67.5° | 6926.1 | 3770.0 | 77.5 | 48.4 | 32.9 | 25.2 | 19.4 | 13.6 | 3.9 | 0.0 | 0.0 |
| 70° | 5417.8 | 2852.2 | 63.9 | 38.7 | 27.1 | 21.3 | 13.6 | 7.7 | 1.9 | 0.0 | 0.0 |
| 72.5° | 3452.4 | 1707.8 | 52.3 | 31.0 | 23.2 | 15.5 | 9.7 | 5.8 | 0.0 | 0.0 | 0.0 |
| 75° | 1444.5 | 526.7 | 40.7 | 27.1 | 17.4 | 11.6 | 7.7 | 1.9 | 0.0 | 0.0 | 0.0 |
| 77.5° | 371.8 | 166.5 | 32.9 | 23.2 | 17.4 | 9.7 | 5.8 | 1.9 | 0.0 | 0.0 | 0.0 |
| 80° | 110.4 | 62.0 | 27.1 | 19.4 | 13.6 | 7.7 | 3.9 | 1.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 50.3 | 36.8 | 23.2 | 17.4 | 11.6 | 7.7 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.4 | 11.6 | 11.6 | 9.7 | 9.7 | 5.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.7 | 3.9 | 3.9 | 3.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)