

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: P479893

Luminaire Tested: **IFLD-M-SA4B-830-U-5WQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479893
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

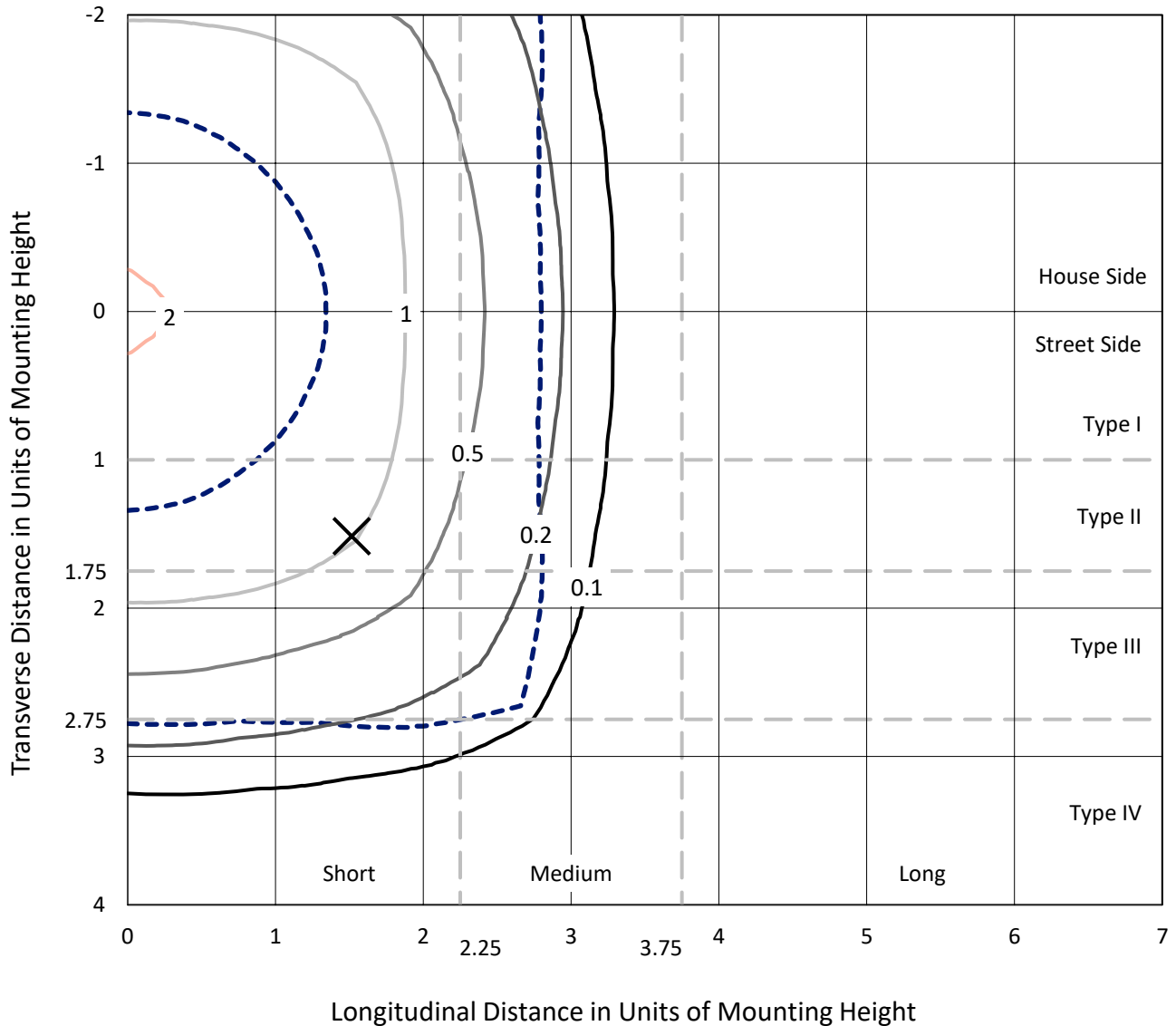
Lumens per Lamp: N/A
Luminaire Lumens: 18623.5 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

REPORT NUMBER: P479893
 CATALOG NUMBER: IFLD-M-SA4B-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

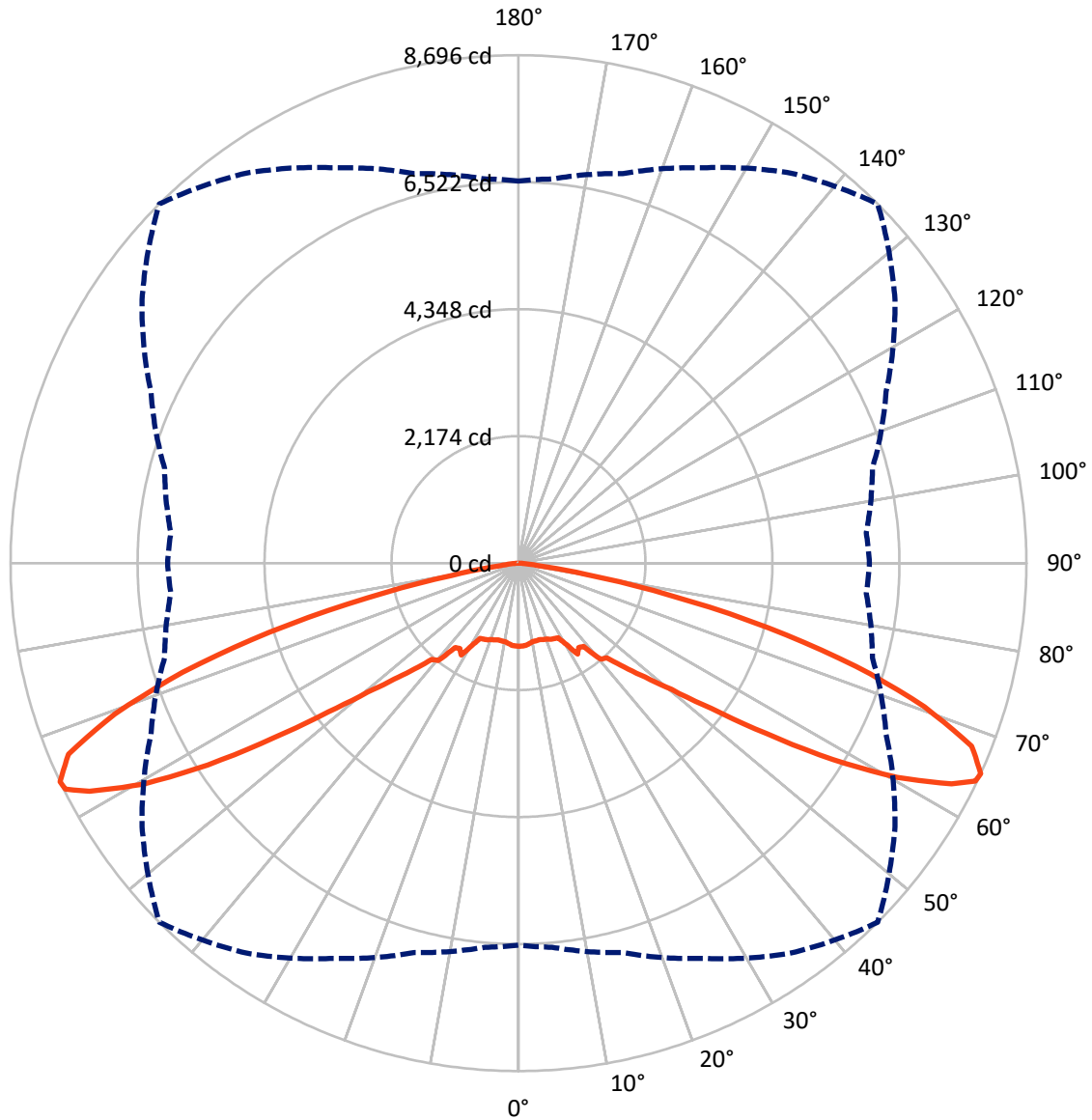
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

REPORT NUMBER: P479893
CATALOG NUMBER: IFLD-M-SA4B-830-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479893
 CATALOG NUMBER: IFLD-M-SA4B-830-U-5WQ

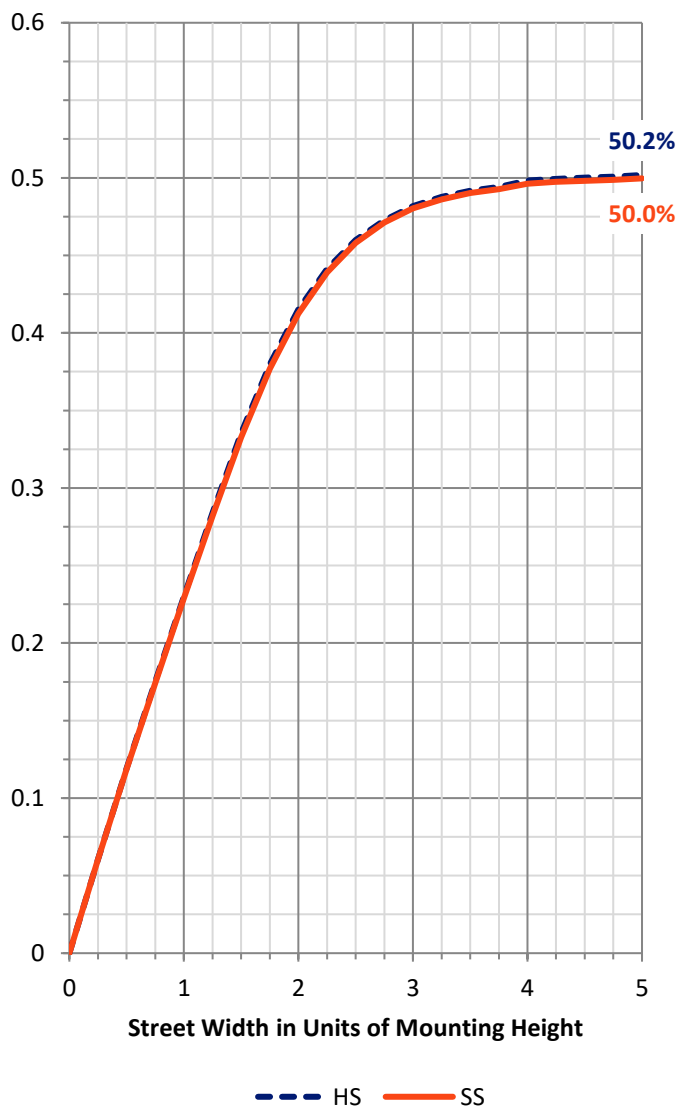
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9311.8 | 0.0 | 9311.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9311.8 | 0.0 | 9311.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18623.5 | 0.0 | 18623.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 133.6 | 0.7 |
| 10°-20° | 392.5 | 2.1 |
| 20°-30° | 679.4 | 3.6 |
| 30°-40° | 1129.7 | 6.1 |
| 40°-50° | 2038.2 | 10.9 |
| 50°-60° | 4540.4 | 24.4 |
| 60°-70° | 6766.6 | 36.3 |
| 70°-80° | 2804.2 | 15.1 |
| 80°-90° | 138.9 | 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° | 18623.5 | 100.0 |
| 0°-180° | 18623.5 | 100.0 |

Coefficient of Utilization



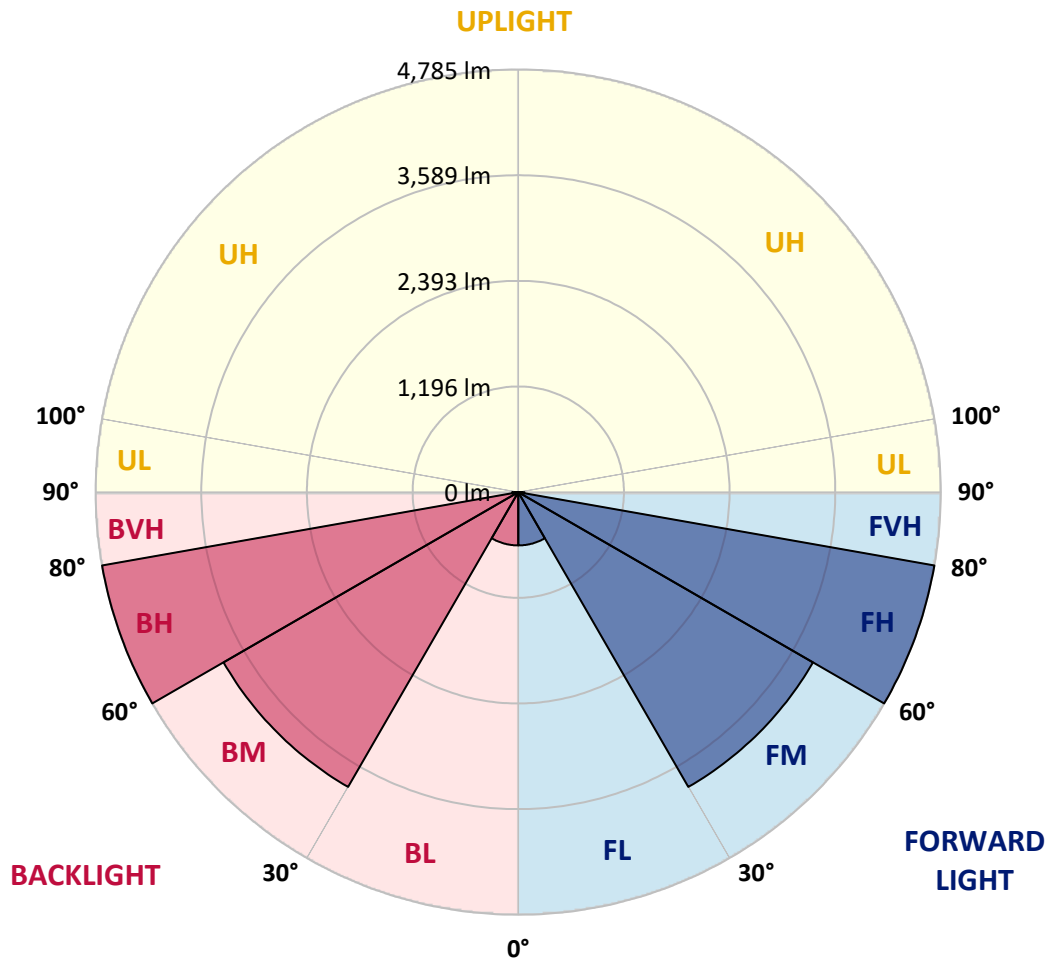
REPORT NUMBER: P479893
 CATALOG NUMBER: IFLD-M-SA4B-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 602.8 | 3.2 | | | |
| FM (30°-60°) | 3854.1 | 20.7 | | | |
| FH (60°-80°) | 4785.4 | 25.7 | | | G2/5000 |
| FVH (80°-90°) | 69.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 602.8 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 3854.1 | 20.7 | B3/5000 | | |
| BH (60°-80°) | 4785.4 | 25.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 69.4 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479893
 CATALOG NUMBER: IFLD-M-SA4B-830-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1423.9 | 1423.9 | 1423.9 | 1423.9 | 1423.9 | 1423.9 | 1423.9 | 1423.9 | 1423.9 | 1423.9 | 1423.9 |
| 2.5° | 1407.4 | 1411.5 | 1409.5 | 1409.5 | 1415.7 | 1419.8 | 1421.8 | 1442.4 | 1434.2 | 1440.3 | 1434.2 |
| 5° | 1411.5 | 1411.5 | 1415.7 | 1411.5 | 1415.7 | 1411.5 | 1415.7 | 1409.5 | 1415.7 | 1419.8 | 1425.9 |
| 7.5° | 1403.3 | 1399.2 | 1393.0 | 1393.0 | 1391.0 | 1386.8 | 1380.7 | 1397.1 | 1388.9 | 1395.1 | 1405.4 |
| 10° | 1405.4 | 1399.2 | 1378.6 | 1382.7 | 1364.2 | 1364.2 | 1368.3 | 1368.3 | 1386.8 | 1407.4 | 1413.6 |
| 12.5° | 1405.4 | 1393.0 | 1386.8 | 1360.1 | 1360.1 | 1362.2 | 1372.4 | 1376.6 | 1388.9 | 1397.1 | 1417.7 |
| 15° | 1405.4 | 1399.2 | 1388.9 | 1353.9 | 1362.2 | 1358.0 | 1368.3 | 1368.3 | 1395.1 | 1409.5 | 1419.8 |
| 17.5° | 1413.6 | 1417.7 | 1399.2 | 1366.3 | 1368.3 | 1376.6 | 1370.4 | 1376.6 | 1409.5 | 1419.8 | 1434.2 |
| 20° | 1415.7 | 1399.2 | 1393.0 | 1372.4 | 1391.0 | 1386.8 | 1384.8 | 1397.1 | 1407.4 | 1425.9 | 1442.4 |
| 22.5° | 1411.5 | 1417.7 | 1393.0 | 1391.0 | 1407.4 | 1415.7 | 1419.8 | 1405.4 | 1417.7 | 1430.1 | 1444.5 |
| 25° | 1446.5 | 1423.9 | 1417.7 | 1413.6 | 1421.8 | 1430.1 | 1425.9 | 1438.3 | 1438.3 | 1452.7 | 1471.2 |
| 27.5° | 1541.2 | 1543.2 | 1530.9 | 1481.5 | 1465.0 | 1446.5 | 1454.7 | 1487.7 | 1526.8 | 1557.6 | 1563.8 |
| 30° | 1584.4 | 1592.6 | 1625.5 | 1617.3 | 1611.1 | 1617.3 | 1615.2 | 1623.5 | 1627.6 | 1629.6 | 1623.5 |
| 32.5° | 1623.5 | 1619.4 | 1605.0 | 1642.0 | 1763.4 | 1856.0 | 1767.5 | 1646.1 | 1619.4 | 1611.1 | 1619.4 |
| 35° | 1765.5 | 1765.5 | 1734.6 | 1687.3 | 1751.0 | 1773.7 | 1732.5 | 1674.9 | 1707.8 | 1775.7 | 1779.9 |
| 37.5° | 1948.6 | 1921.8 | 1934.2 | 1928.0 | 1858.0 | 1808.7 | 1880.7 | 1917.7 | 1923.9 | 1921.8 | 1942.4 |
| 40° | 2057.6 | 2039.1 | 2020.6 | 2053.5 | 2117.3 | 2162.6 | 2098.8 | 2010.3 | 2032.9 | 2078.2 | 2059.7 |
| 42.5° | 2306.6 | 2259.3 | 2263.4 | 2230.5 | 2228.4 | 2214.0 | 2199.6 | 2205.8 | 2238.7 | 2290.1 | 2298.4 |
| 45° | 2561.8 | 2584.4 | 2570.0 | 2508.3 | 2537.1 | 2537.1 | 2495.9 | 2526.8 | 2543.2 | 2602.9 | 2611.1 |
| 47.5° | 2960.9 | 2950.6 | 2956.8 | 2901.3 | 2899.2 | 2913.6 | 2899.2 | 2901.3 | 2952.7 | 2948.6 | 2926.0 |
| 50° | 3428.0 | 3456.8 | 3465.1 | 3438.3 | 3405.4 | 3399.2 | 3376.6 | 3405.4 | 3436.3 | 3438.3 | 3419.8 |
| 52.5° | 4074.1 | 4105.0 | 4105.0 | 4113.2 | 4154.4 | 4133.8 | 4129.7 | 4131.7 | 4072.1 | 4030.9 | 4051.5 |
| 55° | 4888.9 | 4899.2 | 4934.2 | 5006.2 | 5131.7 | 5148.2 | 5070.0 | 5035.0 | 4926.0 | 4860.1 | 4911.6 |
| 57.5° | 5693.5 | 5734.6 | 5831.3 | 6018.6 | 6172.9 | 6341.6 | 6115.3 | 5884.8 | 5670.8 | 5565.9 | 5584.4 |
| 60° | 6362.2 | 6421.9 | 6607.1 | 6868.4 | 7296.4 | 7450.7 | 7068.0 | 6672.9 | 6238.8 | 5917.8 | 6047.4 |
| 62.5° | 6677.0 | 6769.6 | 6926.0 | 7454.8 | 8096.8 | 8319.0 | 7757.3 | 7039.2 | 6380.7 | 6072.1 | 6065.9 |
| 64° | 6679.1 | 6693.5 | 7006.2 | 7576.2 | 8236.7 | 8666.8 | 7924.0 | 7039.2 | 6415.7 | 6035.0 | 6105.0 |
| 65° | 6541.2 | 6600.9 | 6903.4 | 7465.1 | 8148.2 | 8695.6 | 7866.3 | 6942.5 | 6271.7 | 5975.4 | 6008.3 |
| 67.5° | 5915.7 | 5913.6 | 6193.5 | 6751.1 | 7699.7 | 8368.4 | 7376.6 | 6401.3 | 5915.7 | 5594.7 | 5633.8 |
| 70° | 4487.7 | 4559.7 | 4827.2 | 5512.4 | 6662.6 | 7378.7 | 6450.7 | 5440.4 | 4835.4 | 4578.2 | 4563.8 |
| 72.5° | 2685.2 | 2779.9 | 3121.4 | 3956.8 | 5175.0 | 6045.3 | 5119.4 | 4024.7 | 3296.3 | 2888.9 | 2899.2 |
| 75° | 1224.3 | 1294.3 | 1528.8 | 2209.9 | 3448.6 | 4419.8 | 3469.2 | 2327.2 | 1668.7 | 1409.5 | 1372.4 |
| 77.5° | 343.6 | 386.8 | 516.5 | 1014.4 | 1893.0 | 2650.2 | 1946.5 | 1121.4 | 728.4 | 604.9 | 592.6 |
| 80° | 154.3 | 162.6 | 183.1 | 246.9 | 600.8 | 1168.7 | 804.5 | 411.5 | 273.7 | 226.3 | 216.1 |
| 82.5° | 84.4 | 90.5 | 119.3 | 127.6 | 170.8 | 310.7 | 265.4 | 193.4 | 164.6 | 131.7 | 127.6 |
| 85° | 47.3 | 49.4 | 67.9 | 67.9 | 82.3 | 90.5 | 96.7 | 102.9 | 100.8 | 74.1 | 72.0 |
| 87.5° | 14.4 | 16.5 | 20.6 | 20.6 | 20.6 | 20.6 | 32.9 | 45.3 | 49.4 | 35.0 | 35.0 |
| 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)