

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: P479871

Luminaire Tested: **IFLD-S-SA2E-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479871
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

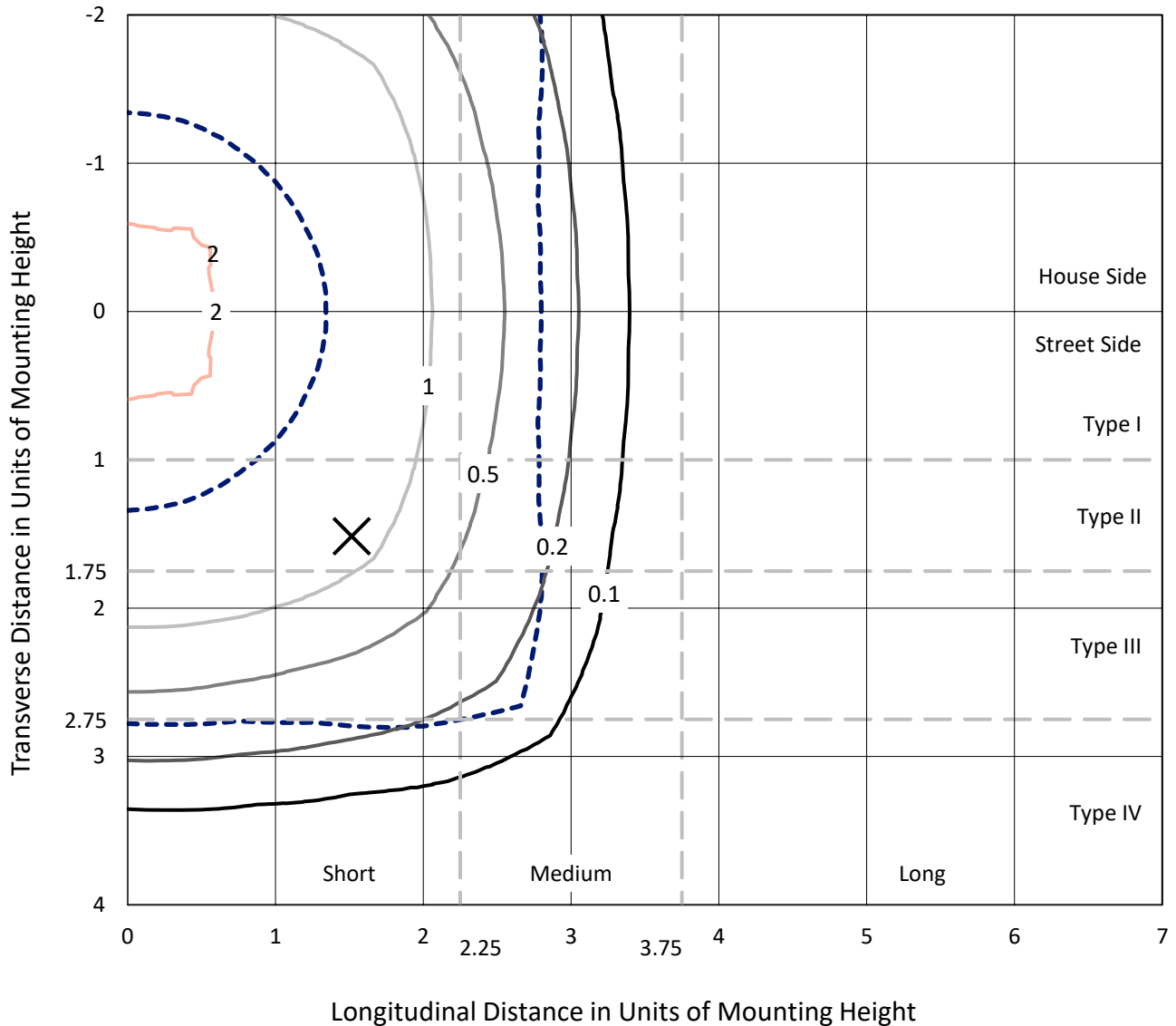
Lumens per Lamp: N/A
Luminaire Lumens: 14758.4 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
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

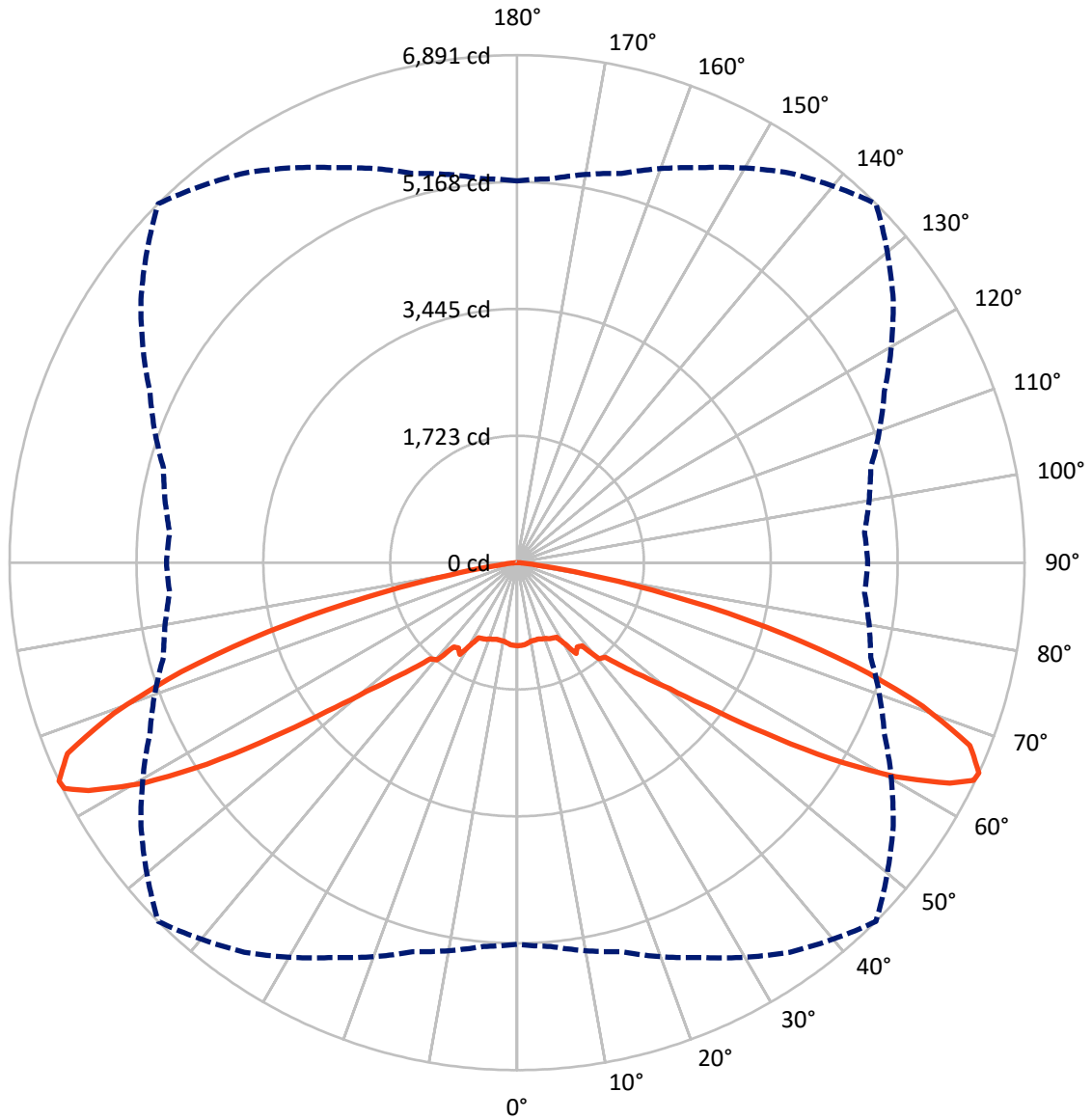
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 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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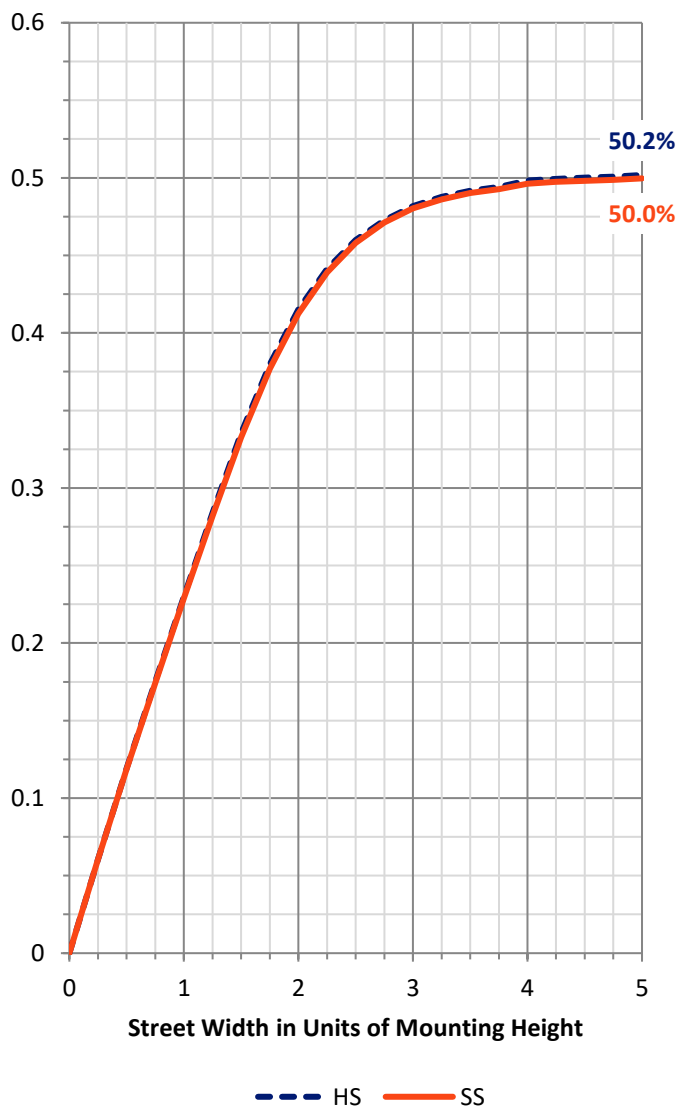
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7379.2 | 0.0 | 7379.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7379.2 | 0.0 | 7379.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14758.4 | 0.0 | 14758.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 105.9 | 0.7 |
| 10°-20° | 311.0 | 2.1 |
| 20°-30° | 538.4 | 3.6 |
| 30°-40° | 895.3 | 6.1 |
| 40°-50° | 1615.2 | 10.9 |
| 50°-60° | 3598.1 | 24.4 |
| 60°-70° | 5362.3 | 36.3 |
| 70°-80° | 2222.2 | 15.1 |
| 80°-90° | 110.1 | 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° | 14758.4 | 100.0 |
| 0°-180° | 14758.4 | 100.0 |

Coefficient of Utilization



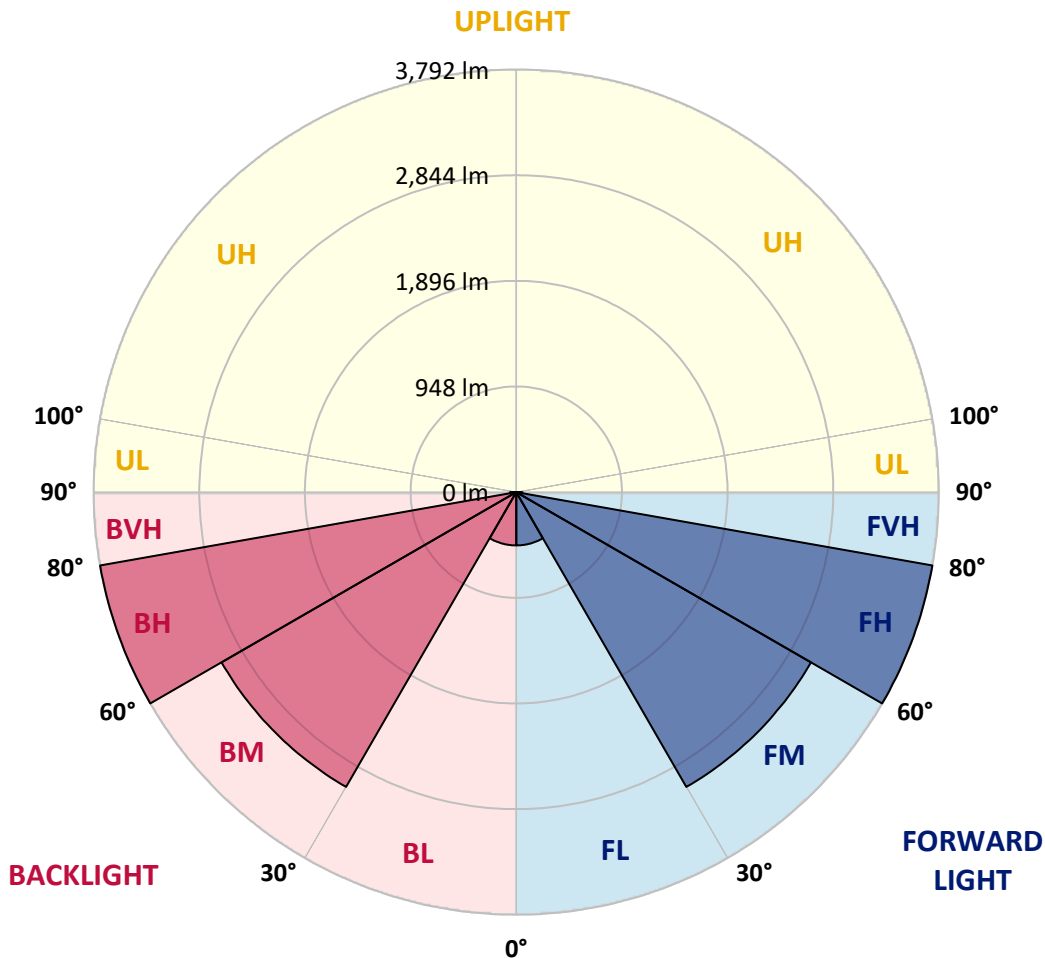
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 477.7 | 3.2 | | | |
| FM (30°-60°) | 3054.3 | 20.7 | | | |
| FH (60°-80°) | 3792.3 | 25.7 | | | G2/5000 |
| FVH (80°-90°) | 55.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 477.7 | 3.2 | B1/500 | | |
| BM (30°-60°) | 3054.3 | 20.7 | B3/5000 | | |
| BH (60°-80°) | 3792.3 | 25.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 55.0 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.4 | 1128.4 | 1128.4 | 1128.4 | 1128.4 | 1128.4 | 1128.4 | 1128.4 | 1128.4 | 1128.4 | 1128.4 |
| 2.5° | 1115.3 | 1118.6 | 1117.0 | 1117.0 | 1121.8 | 1125.1 | 1126.7 | 1143.0 | 1136.5 | 1141.4 | 1136.5 |
| 5° | 1118.6 | 1118.6 | 1121.8 | 1118.6 | 1121.8 | 1118.6 | 1121.8 | 1117.0 | 1121.8 | 1125.1 | 1130.0 |
| 7.5° | 1112.1 | 1108.8 | 1103.9 | 1103.9 | 1102.3 | 1099.0 | 1094.1 | 1107.2 | 1100.7 | 1105.5 | 1113.7 |
| 10° | 1113.7 | 1108.8 | 1092.5 | 1095.8 | 1081.1 | 1081.1 | 1084.3 | 1084.3 | 1099.0 | 1115.3 | 1120.2 |
| 12.5° | 1113.7 | 1103.9 | 1099.0 | 1077.8 | 1077.8 | 1079.5 | 1087.6 | 1090.9 | 1100.7 | 1107.2 | 1123.5 |
| 15° | 1113.7 | 1108.8 | 1100.7 | 1072.9 | 1079.5 | 1076.2 | 1084.3 | 1084.3 | 1105.5 | 1117.0 | 1125.1 |
| 17.5° | 1120.2 | 1123.5 | 1108.8 | 1082.7 | 1084.3 | 1090.9 | 1086.0 | 1090.9 | 1117.0 | 1125.1 | 1136.5 |
| 20° | 1121.8 | 1108.8 | 1103.9 | 1087.6 | 1102.3 | 1099.0 | 1097.4 | 1107.2 | 1115.3 | 1130.0 | 1143.0 |
| 22.5° | 1118.6 | 1123.5 | 1103.9 | 1102.3 | 1115.3 | 1121.8 | 1125.1 | 1113.7 | 1123.5 | 1133.3 | 1144.7 |
| 25° | 1146.3 | 1128.4 | 1123.5 | 1120.2 | 1126.7 | 1133.3 | 1130.0 | 1139.8 | 1139.8 | 1151.2 | 1165.9 |
| 27.5° | 1221.3 | 1222.9 | 1213.2 | 1174.0 | 1161.0 | 1146.3 | 1152.8 | 1178.9 | 1209.9 | 1234.4 | 1239.3 |
| 30° | 1255.6 | 1262.1 | 1288.2 | 1281.6 | 1276.8 | 1281.6 | 1280.0 | 1286.5 | 1289.8 | 1291.4 | 1286.5 |
| 32.5° | 1286.5 | 1283.3 | 1271.9 | 1301.2 | 1397.4 | 1470.8 | 1400.7 | 1304.5 | 1283.3 | 1276.8 | 1283.3 |
| 35° | 1399.1 | 1399.1 | 1374.6 | 1337.1 | 1387.6 | 1405.6 | 1373.0 | 1327.3 | 1353.4 | 1407.2 | 1410.5 |
| 37.5° | 1544.2 | 1523.0 | 1532.8 | 1527.9 | 1472.4 | 1433.3 | 1490.4 | 1519.7 | 1524.6 | 1523.0 | 1539.3 |
| 40° | 1630.6 | 1615.9 | 1601.2 | 1627.3 | 1677.9 | 1713.8 | 1663.2 | 1593.1 | 1611.0 | 1646.9 | 1632.2 |
| 42.5° | 1827.9 | 1790.4 | 1793.7 | 1767.6 | 1765.9 | 1754.5 | 1743.1 | 1748.0 | 1774.1 | 1814.9 | 1821.4 |
| 45° | 2030.1 | 2048.0 | 2036.6 | 1987.7 | 2010.5 | 2010.5 | 1977.9 | 2002.4 | 2015.4 | 2062.7 | 2069.2 |
| 47.5° | 2346.4 | 2338.3 | 2343.2 | 2299.1 | 2297.5 | 2308.9 | 2297.5 | 2299.1 | 2339.9 | 2336.6 | 2318.7 |
| 50° | 2716.6 | 2739.4 | 2745.9 | 2724.7 | 2698.6 | 2693.7 | 2675.8 | 2698.6 | 2723.1 | 2724.7 | 2710.0 |
| 52.5° | 3228.6 | 3253.0 | 3253.0 | 3259.6 | 3292.2 | 3275.9 | 3272.6 | 3274.2 | 3226.9 | 3194.3 | 3210.6 |
| 55° | 3874.3 | 3882.4 | 3910.2 | 3967.2 | 4066.7 | 4079.8 | 4017.8 | 3990.1 | 3903.6 | 3851.5 | 3892.2 |
| 57.5° | 4511.9 | 4544.5 | 4621.1 | 4769.5 | 4891.8 | 5025.5 | 4846.1 | 4663.5 | 4493.9 | 4410.8 | 4425.4 |
| 60° | 5041.8 | 5089.1 | 5235.8 | 5442.9 | 5782.1 | 5904.4 | 5601.1 | 5288.0 | 4944.0 | 4689.6 | 4792.3 |
| 62.5° | 5291.3 | 5364.7 | 5488.6 | 5907.6 | 6416.4 | 6592.5 | 6147.3 | 5578.3 | 5056.5 | 4811.9 | 4807.0 |
| 64° | 5292.9 | 5304.3 | 5552.2 | 6003.9 | 6527.3 | 6868.1 | 6279.4 | 5578.3 | 5084.2 | 4782.5 | 4838.0 |
| 65° | 5183.7 | 5231.0 | 5470.6 | 5915.8 | 6457.2 | 6890.9 | 6233.8 | 5501.6 | 4970.1 | 4735.2 | 4761.3 |
| 67.5° | 4688.0 | 4686.3 | 4908.1 | 5350.0 | 6101.7 | 6631.6 | 5845.7 | 5072.8 | 4688.0 | 4433.6 | 4464.6 |
| 70° | 3556.3 | 3613.4 | 3825.4 | 4368.4 | 5279.9 | 5847.3 | 5111.9 | 4311.3 | 3831.9 | 3628.1 | 3616.7 |
| 72.5° | 2127.9 | 2202.9 | 2473.6 | 3135.6 | 4100.9 | 4790.7 | 4056.9 | 3189.4 | 2612.2 | 2289.4 | 2297.5 |
| 75° | 970.2 | 1025.6 | 1211.5 | 1751.3 | 2732.9 | 3502.5 | 2749.2 | 1844.2 | 1322.4 | 1117.0 | 1087.6 |
| 77.5° | 272.3 | 306.6 | 409.3 | 803.9 | 1500.1 | 2100.2 | 1542.5 | 888.7 | 577.2 | 479.4 | 469.6 |
| 80° | 122.3 | 128.8 | 145.1 | 195.7 | 476.1 | 926.2 | 637.6 | 326.1 | 216.9 | 179.4 | 171.2 |
| 82.5° | 66.9 | 71.7 | 94.6 | 101.1 | 135.3 | 246.2 | 210.3 | 153.3 | 130.4 | 104.4 | 101.1 |
| 85° | 37.5 | 39.1 | 53.8 | 53.8 | 65.2 | 71.7 | 76.6 | 81.5 | 79.9 | 58.7 | 57.1 |
| 87.5° | 11.4 | 13.0 | 16.3 | 16.3 | 16.3 | 16.3 | 26.1 | 35.9 | 39.1 | 27.7 | 27.7 |
| 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)