

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: P479755

Luminaire Tested: **IFLD-S-SA3A-750-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479755
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

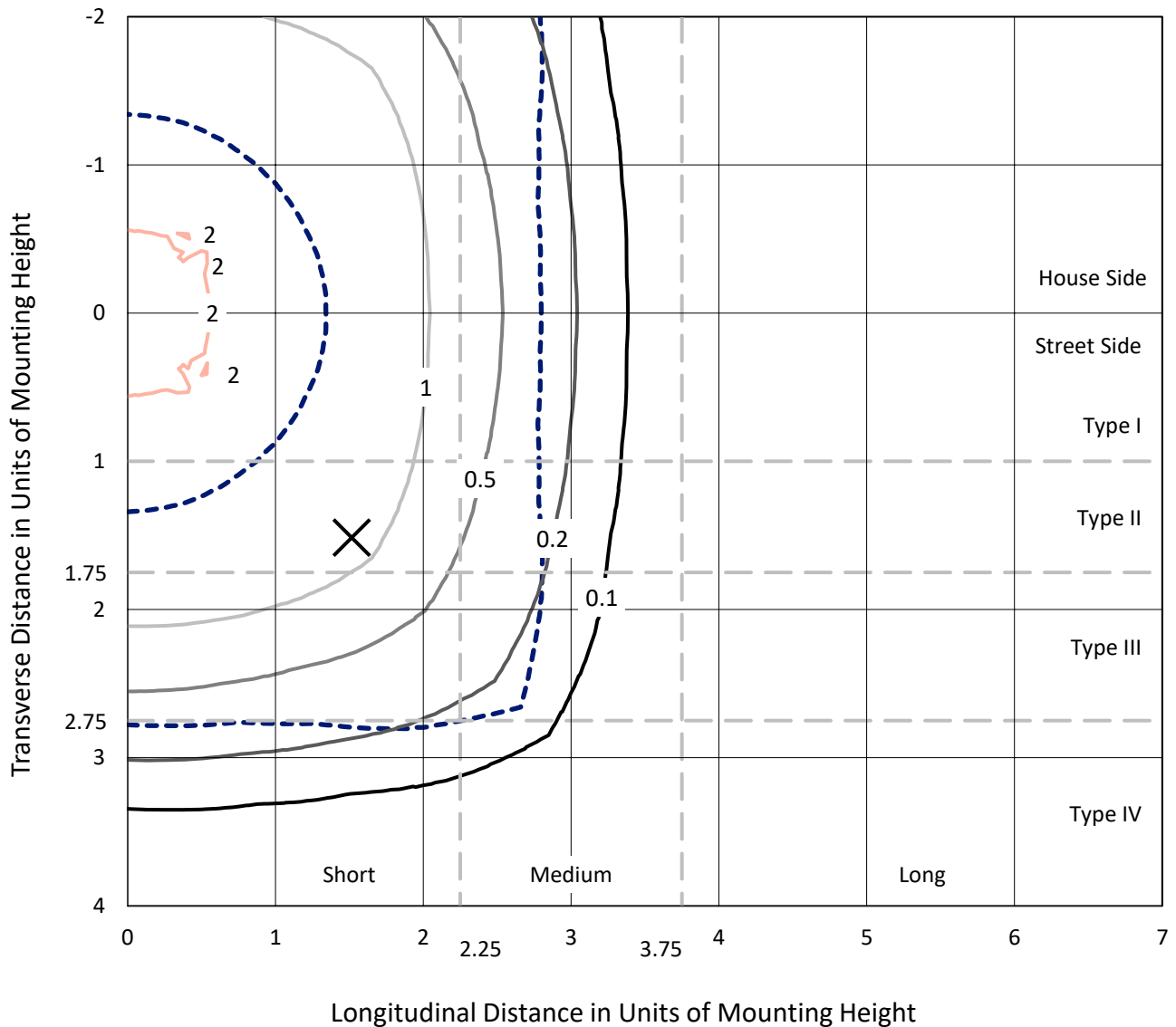
Lumens per Lamp: N/A
Luminaire Lumens: 14442.2 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 94.8
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

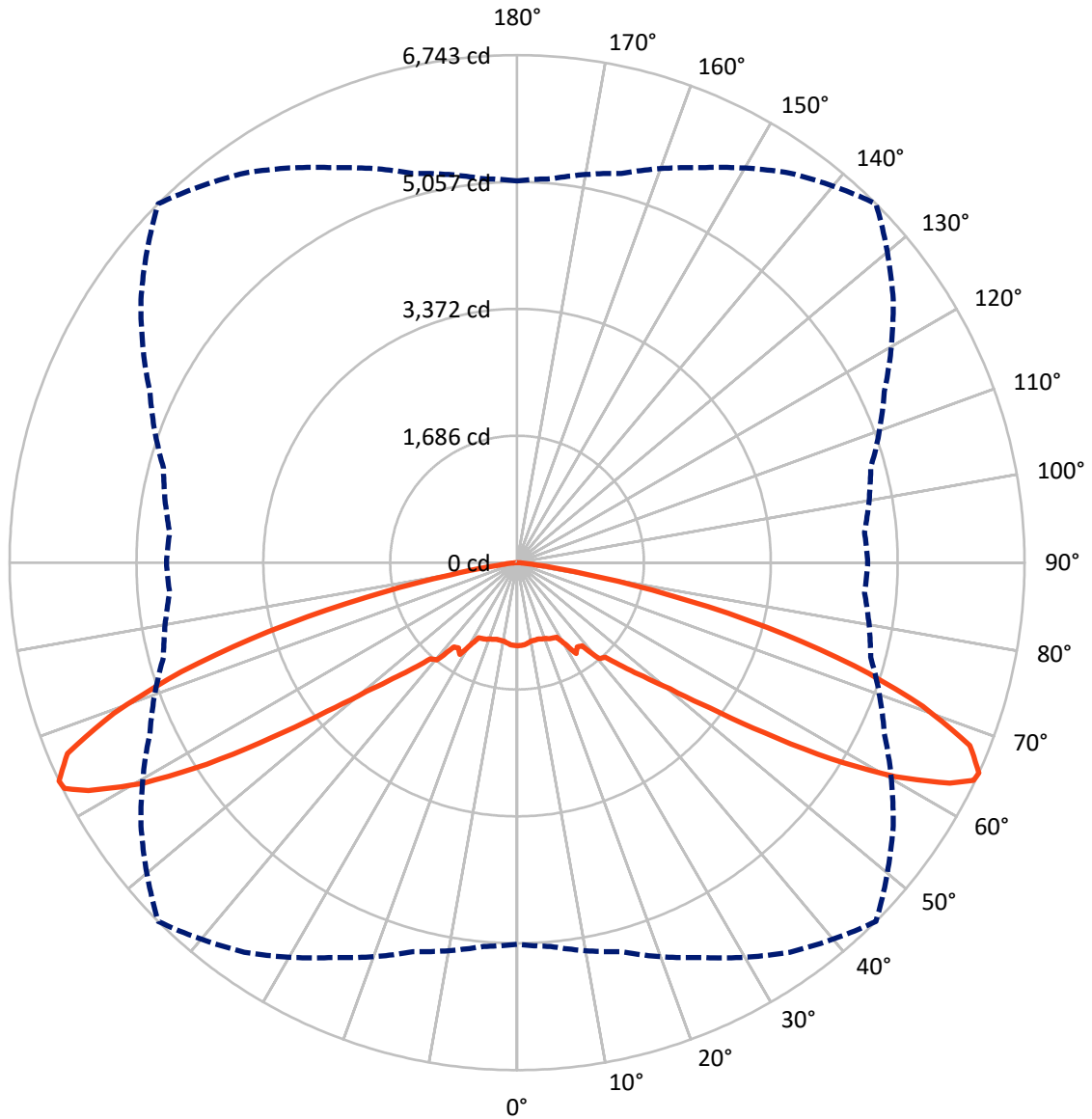
× Max cd
 - - - 1/2 Max cd



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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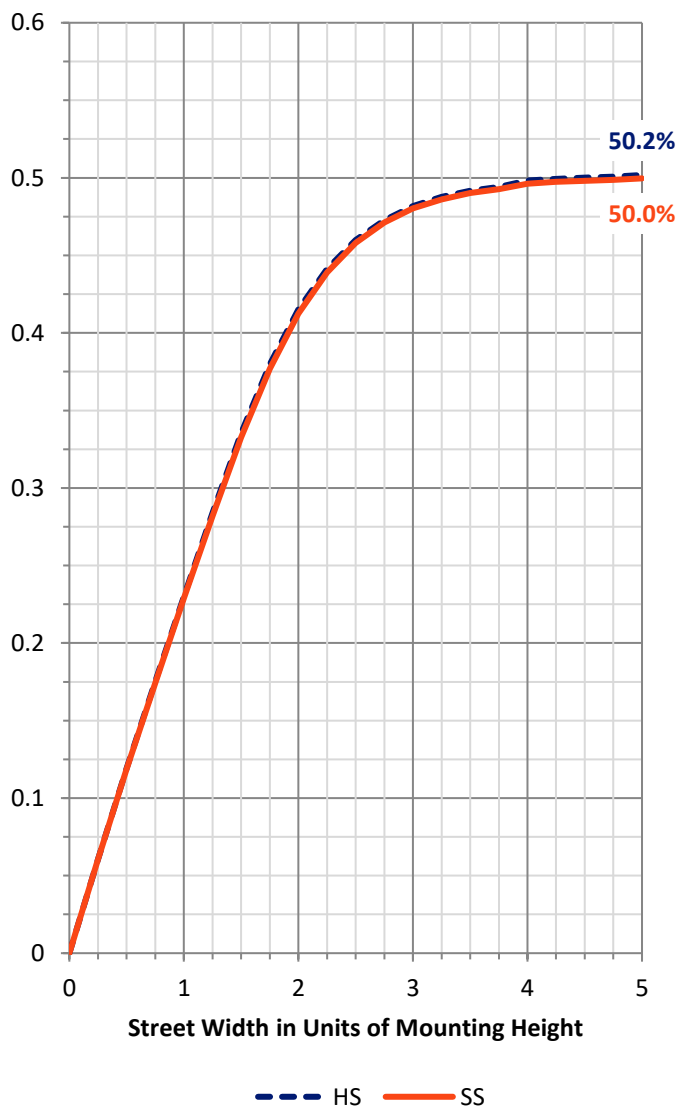
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7221.1 | 0.0 | 7221.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7221.1 | 0.0 | 7221.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14442.2 | 0.0 | 14442.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 103.6 | 0.7 |
| 10°-20° | 304.4 | 2.1 |
| 20°-30° | 526.9 | 3.6 |
| 30°-40° | 876.1 | 6.1 |
| 40°-50° | 1580.6 | 10.9 |
| 50°-60° | 3521.0 | 24.4 |
| 60°-70° | 5247.4 | 36.3 |
| 70°-80° | 2174.6 | 15.1 |
| 80°-90° | 107.7 | 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° | 14442.2 | 100.0 |
| 0°-180° | 14442.2 | 100.0 |

Coefficient of Utilization



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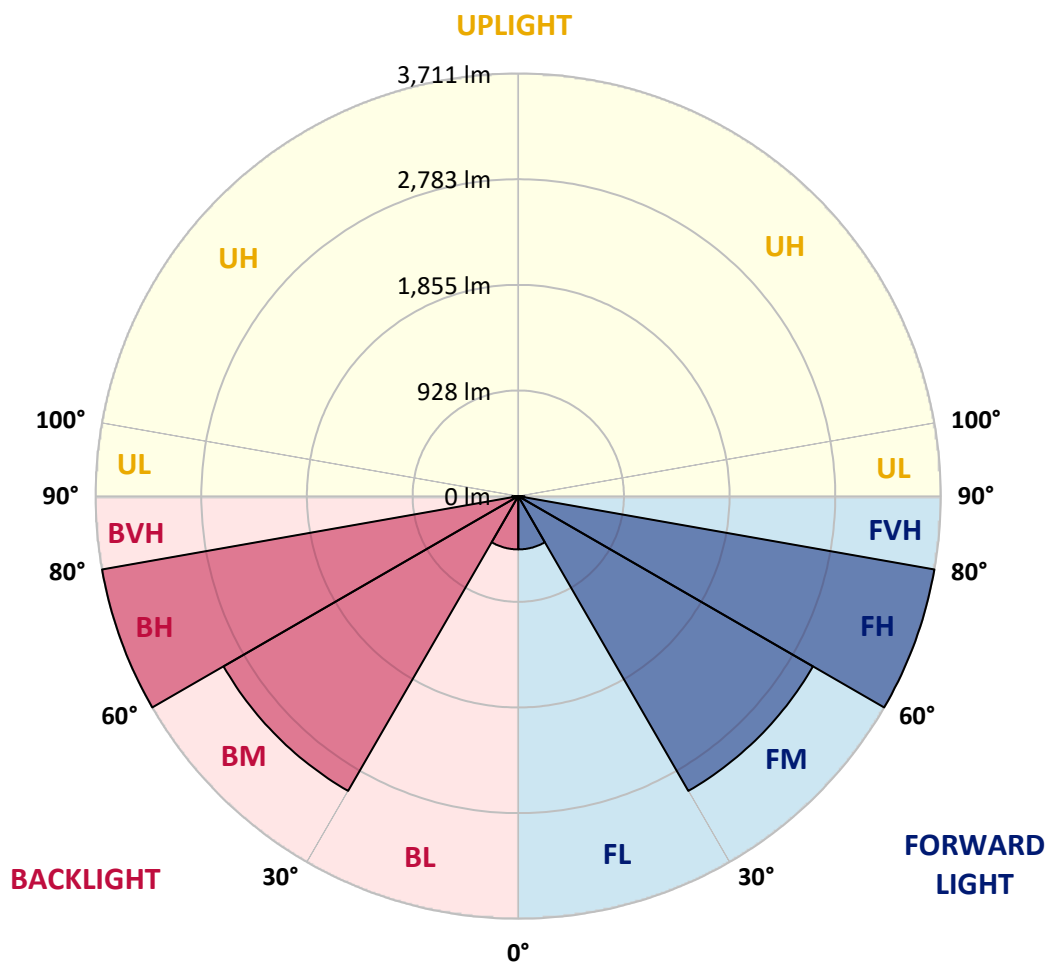
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 467.4 | 3.2 | | | |
| FM (30°-60°) | 2988.8 | 20.7 | | | |
| FH (60°-80°) | 3711.0 | 25.7 | | | G2/5000 |
| FVH (80°-90°) | 53.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 467.4 | 3.2 | B1/500 | | |
| BM (30°-60°) | 2988.8 | 20.7 | B3/5000 | | |
| BH (60°-80°) | 3711.0 | 25.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 53.9 | 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° | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1104.2 |
| 2.5° | 1091.4 | 1094.6 | 1093.0 | 1093.0 | 1097.8 | 1101.0 | 1102.6 | 1118.6 | 1112.2 | 1117.0 | 1112.2 |
| 5° | 1094.6 | 1094.6 | 1097.8 | 1094.6 | 1097.8 | 1094.6 | 1097.8 | 1093.0 | 1097.8 | 1101.0 | 1105.8 |
| 7.5° | 1088.2 | 1085.0 | 1080.3 | 1080.3 | 1078.7 | 1075.5 | 1070.7 | 1083.5 | 1077.1 | 1081.9 | 1089.8 |
| 10° | 1089.8 | 1085.0 | 1069.1 | 1072.3 | 1057.9 | 1057.9 | 1061.1 | 1061.1 | 1075.5 | 1091.4 | 1096.2 |
| 12.5° | 1089.8 | 1080.3 | 1075.5 | 1054.7 | 1054.7 | 1056.3 | 1064.3 | 1067.5 | 1077.1 | 1083.5 | 1099.4 |
| 15° | 1089.8 | 1085.0 | 1077.1 | 1049.9 | 1056.3 | 1053.1 | 1061.1 | 1061.1 | 1081.9 | 1093.0 | 1101.0 |
| 17.5° | 1096.2 | 1099.4 | 1085.0 | 1059.5 | 1061.1 | 1067.5 | 1062.7 | 1067.5 | 1093.0 | 1101.0 | 1112.2 |
| 20° | 1097.8 | 1085.0 | 1080.3 | 1064.3 | 1078.7 | 1075.5 | 1073.9 | 1083.5 | 1091.4 | 1105.8 | 1118.6 |
| 22.5° | 1094.6 | 1099.4 | 1080.3 | 1078.7 | 1091.4 | 1097.8 | 1101.0 | 1089.8 | 1099.4 | 1109.0 | 1120.2 |
| 25° | 1121.7 | 1104.2 | 1099.4 | 1096.2 | 1102.6 | 1109.0 | 1105.8 | 1115.4 | 1115.4 | 1126.5 | 1140.9 |
| 27.5° | 1195.1 | 1196.7 | 1187.2 | 1148.9 | 1136.1 | 1121.7 | 1128.1 | 1153.7 | 1184.0 | 1207.9 | 1212.7 |
| 30° | 1228.7 | 1235.0 | 1260.6 | 1254.2 | 1249.4 | 1254.2 | 1252.6 | 1259.0 | 1262.2 | 1263.8 | 1259.0 |
| 32.5° | 1259.0 | 1255.8 | 1244.6 | 1273.3 | 1367.5 | 1439.3 | 1370.7 | 1276.5 | 1255.8 | 1249.4 | 1255.8 |
| 35° | 1369.1 | 1369.1 | 1345.1 | 1308.4 | 1357.9 | 1375.5 | 1343.5 | 1298.9 | 1324.4 | 1377.1 | 1380.2 |
| 37.5° | 1511.1 | 1490.3 | 1499.9 | 1495.1 | 1440.9 | 1402.6 | 1458.4 | 1487.2 | 1491.9 | 1490.3 | 1506.3 |
| 40° | 1595.7 | 1581.3 | 1566.9 | 1592.5 | 1641.9 | 1677.0 | 1627.6 | 1559.0 | 1576.5 | 1611.6 | 1597.3 |
| 42.5° | 1788.7 | 1752.0 | 1755.2 | 1729.7 | 1728.1 | 1716.9 | 1705.8 | 1710.5 | 1736.1 | 1776.0 | 1782.3 |
| 45° | 1986.6 | 2004.1 | 1993.0 | 1945.1 | 1967.4 | 1967.4 | 1935.5 | 1959.5 | 1972.2 | 2018.5 | 2024.9 |
| 47.5° | 2296.1 | 2288.2 | 2293.0 | 2249.9 | 2248.3 | 2259.4 | 2248.3 | 2249.9 | 2289.8 | 2286.6 | 2269.0 |
| 50° | 2658.4 | 2680.7 | 2687.1 | 2666.3 | 2640.8 | 2636.0 | 2618.5 | 2640.8 | 2664.7 | 2666.3 | 2652.0 |
| 52.5° | 3159.4 | 3183.3 | 3183.3 | 3189.7 | 3221.6 | 3205.7 | 3202.5 | 3204.1 | 3157.8 | 3125.9 | 3141.8 |
| 55° | 3791.3 | 3799.3 | 3826.4 | 3882.2 | 3979.6 | 3992.3 | 3931.7 | 3904.6 | 3820.0 | 3768.9 | 3808.8 |
| 57.5° | 4415.2 | 4447.1 | 4522.1 | 4667.3 | 4787.0 | 4917.8 | 4742.3 | 4563.6 | 4397.6 | 4316.3 | 4330.6 |
| 60° | 4933.8 | 4980.0 | 5123.7 | 5326.3 | 5658.2 | 5777.9 | 5481.1 | 5174.7 | 4838.0 | 4589.1 | 4689.6 |
| 62.5° | 5177.9 | 5249.7 | 5371.0 | 5781.1 | 6278.9 | 6451.2 | 6015.6 | 5458.7 | 4948.1 | 4708.8 | 4704.0 |
| 64° | 5179.5 | 5190.7 | 5433.2 | 5875.2 | 6387.4 | 6720.9 | 6144.9 | 5458.7 | 4975.3 | 4680.1 | 4734.3 |
| 65° | 5072.6 | 5118.9 | 5353.4 | 5789.0 | 6318.8 | 6743.2 | 6100.2 | 5383.7 | 4863.6 | 4633.8 | 4659.3 |
| 67.5° | 4587.5 | 4585.9 | 4802.9 | 5235.3 | 5970.9 | 6489.5 | 5720.4 | 4964.1 | 4587.5 | 4338.6 | 4368.9 |
| 70° | 3480.1 | 3536.0 | 3743.4 | 4274.8 | 5166.7 | 5722.0 | 5002.4 | 4218.9 | 3749.8 | 3550.3 | 3539.2 |
| 72.5° | 2082.3 | 2155.7 | 2420.6 | 3068.4 | 4013.1 | 4688.0 | 3970.0 | 3121.1 | 2556.2 | 2240.3 | 2248.3 |
| 75° | 949.4 | 1003.7 | 1185.6 | 1713.7 | 2674.3 | 3427.5 | 2690.3 | 1804.7 | 1294.1 | 1093.0 | 1064.3 |
| 77.5° | 266.5 | 300.0 | 400.5 | 786.7 | 1468.0 | 2055.2 | 1509.5 | 869.6 | 564.9 | 469.1 | 459.5 |
| 80° | 119.7 | 126.1 | 142.0 | 191.5 | 465.9 | 906.3 | 623.9 | 319.1 | 212.2 | 175.5 | 167.5 |
| 82.5° | 65.4 | 70.2 | 92.5 | 98.9 | 132.4 | 240.9 | 205.8 | 150.0 | 127.7 | 102.1 | 98.9 |
| 85° | 36.7 | 38.3 | 52.7 | 52.7 | 63.8 | 70.2 | 75.0 | 79.8 | 78.2 | 57.4 | 55.8 |
| 87.5° | 11.2 | 12.8 | 16.0 | 16.0 | 16.0 | 16.0 | 25.5 | 35.1 | 38.3 | 27.1 | 27.1 |
| 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)