

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: P482349

Luminaire Tested: **IFLD-M-SA4A-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482349
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

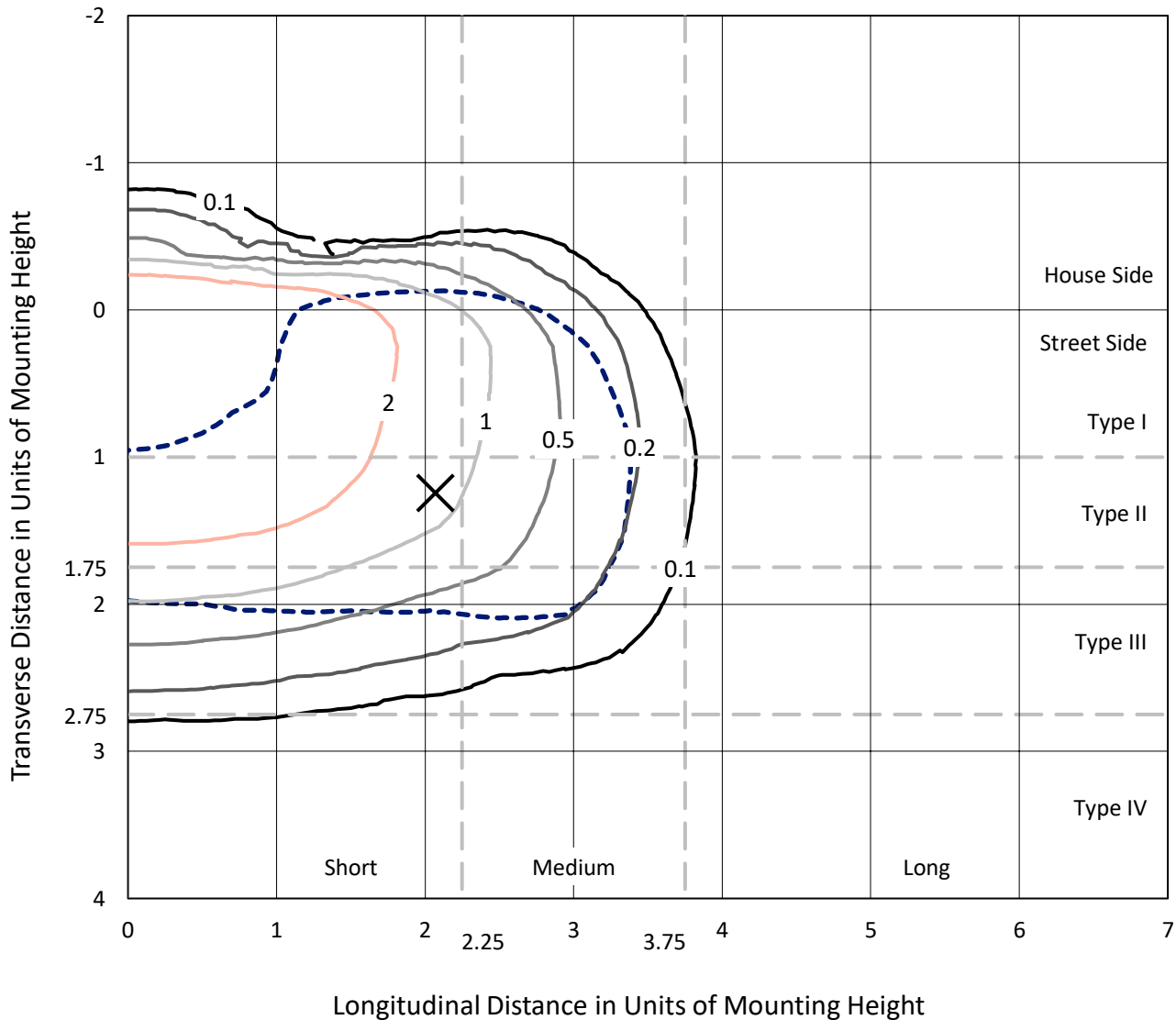
Lumens per Lamp: N/A
Luminaire Lumens: 11460 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

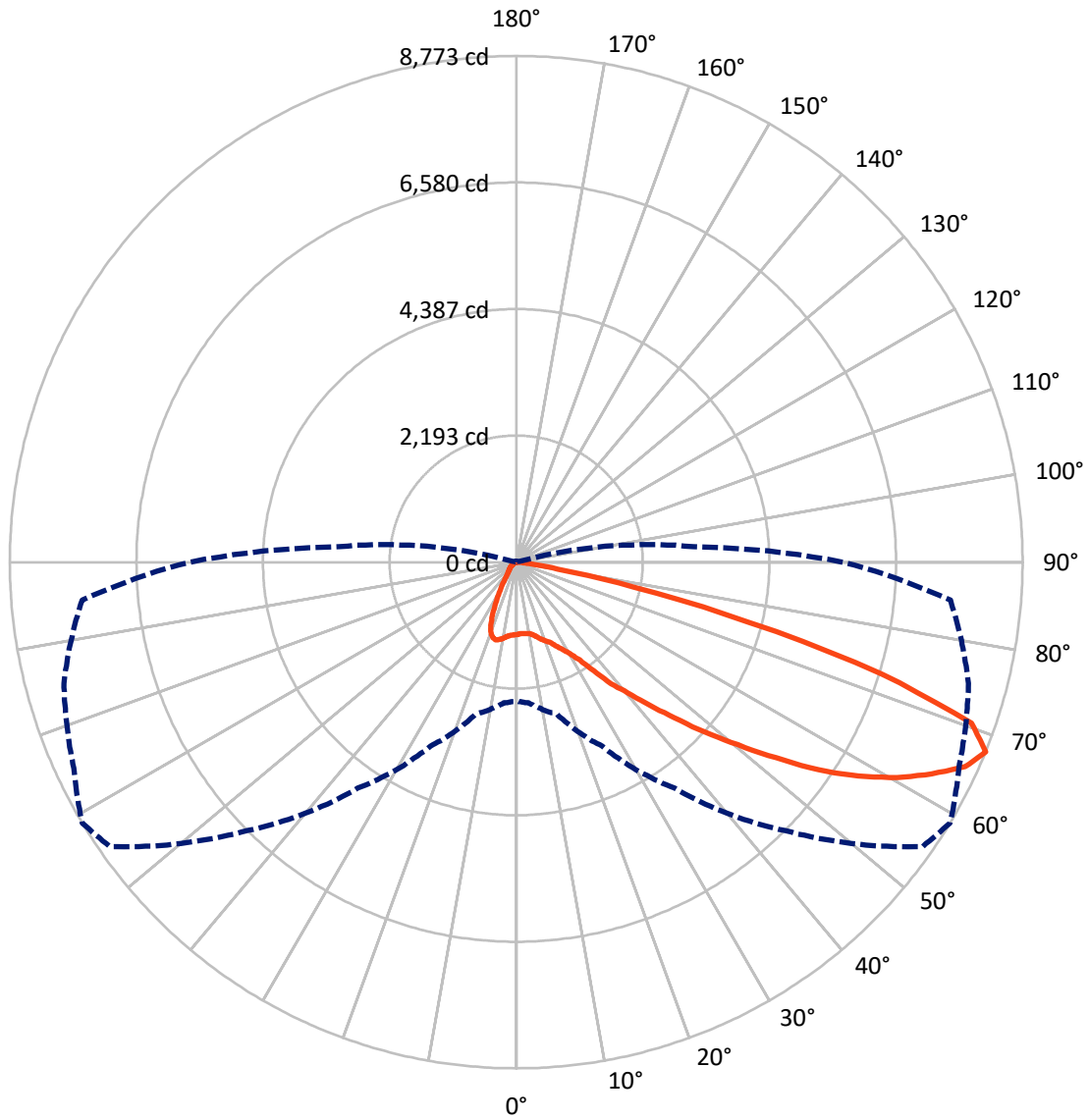
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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 | 1346.2 | 0.0 | 1346.2 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 10113.8 | 0.0 | 10113.8 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 11460.0 | 0.0 | 11460.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 119.4 | 1.0 |
| 10°-20° | 344.9 | 3.0 |
| 20°-30° | 602.8 | 5.3 |
| 30°-40° | 1061.3 | 9.3 |
| 40°-50° | 1876.0 | 16.4 |
| 50°-60° | 2970.4 | 25.9 |
| 60°-70° | 3295.0 | 28.8 |
| 70°-80° | 1143.3 | 10.0 |
| 80°-90° | 47.1 | 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° | 11460.0 | 100.0 |
| 0°-180° | 11460.0 | 100.0 |

Coefficient of Utilization

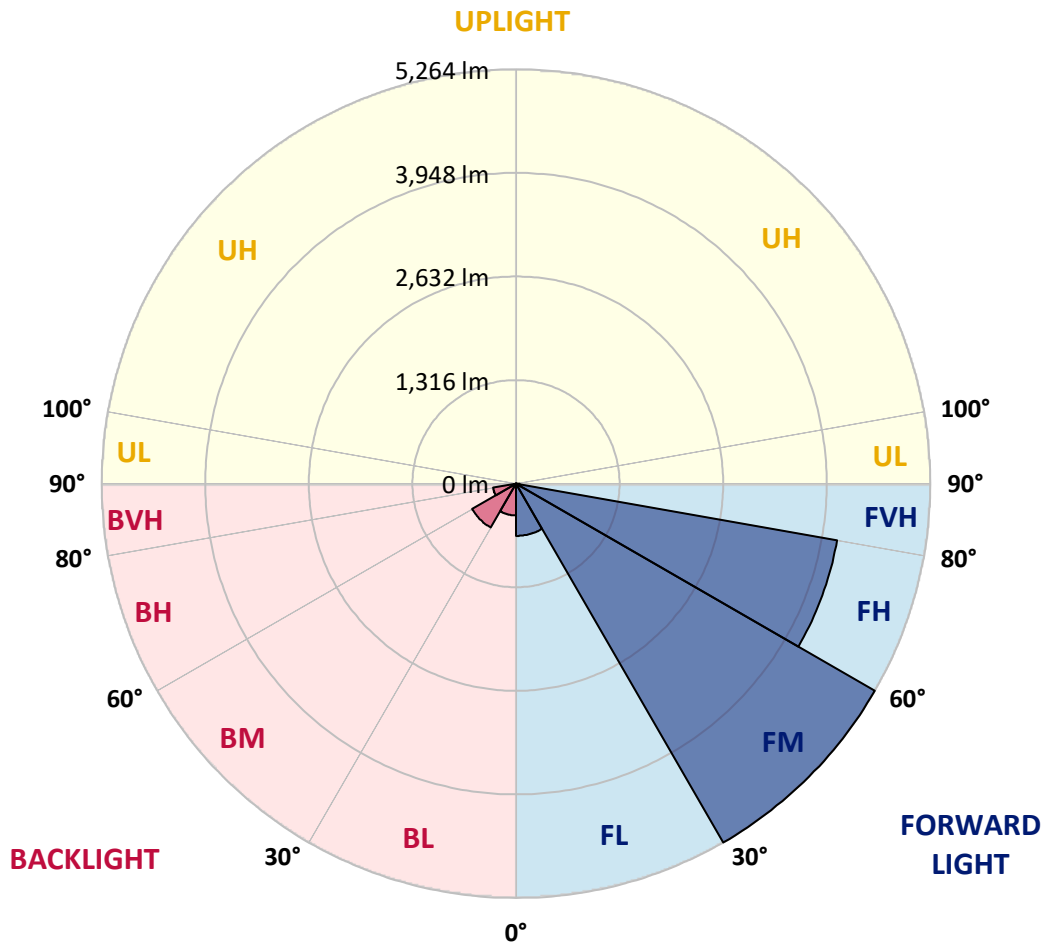


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 663.6 | 5.8 | | | |
| FM (30°-60°) | 5264.0 | 45.9 | | | |
| FH (60°-80°) | 4142.2 | 36.1 | | | G2/5000 |
| FVH (80°-90°) | 44.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 403.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 643.6 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 296.0 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 |
| 2.5° | 1220.5 | 1203.1 | 1219.0 | 1220.5 | 1222.1 | 1236.4 | 1252.2 | 1241.1 | 1239.5 | 1252.2 | 1263.3 |
| 5° | 1171.5 | 1163.6 | 1182.6 | 1192.1 | 1207.9 | 1220.5 | 1245.9 | 1247.5 | 1249.0 | 1263.3 | 1282.3 |
| 7.5° | 1150.9 | 1131.9 | 1154.1 | 1165.1 | 1176.2 | 1206.3 | 1236.4 | 1252.2 | 1274.4 | 1291.8 | 1310.8 |
| 10° | 1109.7 | 1124.0 | 1130.3 | 1149.3 | 1181.0 | 1215.8 | 1252.2 | 1260.1 | 1309.2 | 1323.4 | 1369.4 |
| 12.5° | 1124.0 | 1133.5 | 1146.1 | 1150.9 | 1185.7 | 1238.0 | 1287.0 | 1290.2 | 1340.9 | 1402.6 | 1426.3 |
| 15° | 1160.4 | 1154.1 | 1158.8 | 1165.1 | 1206.3 | 1249.0 | 1328.2 | 1342.4 | 1389.9 | 1459.6 | 1518.2 |
| 17.5° | 1238.0 | 1226.9 | 1219.0 | 1217.4 | 1226.9 | 1266.5 | 1359.9 | 1402.6 | 1446.9 | 1541.9 | 1572.0 |
| 20° | 1432.7 | 1423.2 | 1391.5 | 1309.2 | 1280.7 | 1296.5 | 1397.9 | 1458.0 | 1519.7 | 1625.8 | 1674.9 |
| 22.5° | 1728.7 | 1738.2 | 1663.8 | 1548.2 | 1429.5 | 1367.8 | 1458.0 | 1510.2 | 1608.4 | 1743.0 | 1787.3 |
| 25° | 2078.6 | 2059.6 | 1969.3 | 1834.8 | 1648.0 | 1502.3 | 1554.6 | 1613.1 | 1733.5 | 1844.3 | 1861.7 |
| 27.5° | 2352.4 | 2330.3 | 2260.6 | 2097.6 | 1936.1 | 1700.2 | 1681.2 | 1717.6 | 1860.1 | 1959.8 | 1940.8 |
| 30° | 2623.1 | 2631.1 | 2583.6 | 2390.4 | 2191.0 | 1942.4 | 1822.1 | 1837.9 | 1947.2 | 2075.4 | 2032.7 |
| 32.5° | 2968.3 | 2949.3 | 2922.3 | 2753.0 | 2517.1 | 2251.1 | 2045.3 | 2020.0 | 2067.5 | 2236.9 | 2186.2 |
| 35° | 3289.6 | 3278.5 | 3242.1 | 3071.2 | 2865.4 | 2575.7 | 2374.6 | 2317.6 | 2306.5 | 2494.9 | 2406.3 |
| 37.5° | 3569.8 | 3550.8 | 3495.4 | 3386.2 | 3186.7 | 2942.9 | 2722.9 | 2672.2 | 2670.6 | 2800.5 | 2629.5 |
| 40° | 3805.7 | 3819.9 | 3813.6 | 3693.3 | 3584.1 | 3389.4 | 3052.2 | 2971.4 | 2965.1 | 3034.7 | 2935.0 |
| 42.5° | 4111.2 | 4144.5 | 4127.1 | 4103.3 | 3971.9 | 3895.9 | 3514.4 | 3390.9 | 3335.5 | 3478.0 | 3387.8 |
| 45° | 4573.5 | 4586.2 | 4597.2 | 4538.7 | 4407.3 | 4423.1 | 3992.5 | 3845.3 | 3831.0 | 4043.2 | 3840.5 |
| 47.5° | 5005.7 | 4972.4 | 5050.0 | 5053.2 | 5046.8 | 4974.0 | 4508.6 | 4399.4 | 4418.3 | 4579.8 | 4370.9 |
| 50° | 5113.3 | 5198.8 | 5412.5 | 5452.1 | 5555.0 | 5621.5 | 5081.7 | 4972.4 | 5004.1 | 5187.7 | 4948.7 |
| 52.5° | 5197.2 | 5327.0 | 5540.7 | 5830.4 | 6107.5 | 6265.8 | 5722.8 | 5634.1 | 5632.6 | 5745.0 | 5415.7 |
| 55° | 5344.4 | 5423.6 | 5608.8 | 6007.8 | 6534.9 | 6794.5 | 6495.3 | 6352.9 | 6224.6 | 6303.8 | 5900.1 |
| 57.5° | 5330.2 | 5360.3 | 5648.4 | 6140.7 | 6873.7 | 7345.4 | 7130.1 | 6994.0 | 6829.4 | 6783.5 | 6457.3 |
| 60° | 5080.1 | 5151.3 | 5474.3 | 6050.5 | 7082.7 | 7774.5 | 7722.2 | 7582.9 | 7299.5 | 7191.9 | 6884.8 |
| 62.5° | 4584.6 | 4679.6 | 4932.8 | 5733.9 | 6778.7 | 7796.6 | 8130.6 | 8078.4 | 7761.8 | 7568.7 | 7442.0 |
| 65° | 3715.5 | 3759.8 | 4051.1 | 4929.7 | 6091.7 | 7456.3 | 8613.5 | 8548.6 | 8257.3 | 7969.2 | 7728.5 |
| 67.5° | 2406.3 | 2449.0 | 2729.2 | 3519.2 | 4784.0 | 6577.7 | 8594.5 | 8773.4 | 8458.3 | 8111.7 | 7549.7 |
| 70° | 1136.6 | 1125.6 | 1386.8 | 1955.1 | 3064.8 | 5023.1 | 8013.5 | 8366.5 | 8099.0 | 7353.4 | 6270.5 |
| 72.5° | 346.7 | 376.8 | 576.2 | 865.9 | 1573.6 | 3132.9 | 6281.6 | 6612.5 | 6528.6 | 5874.8 | 4185.6 |
| 75° | 153.6 | 166.2 | 226.4 | 354.6 | 638.0 | 1285.5 | 3880.1 | 4174.6 | 4138.1 | 3465.3 | 1910.8 |
| 77.5° | 98.2 | 107.6 | 142.5 | 202.6 | 289.7 | 408.4 | 1787.3 | 2073.8 | 2010.5 | 1217.4 | 500.3 |
| 80° | 69.7 | 74.4 | 101.3 | 139.3 | 182.1 | 167.8 | 615.8 | 731.4 | 701.3 | 330.9 | 134.6 |
| 82.5° | 38.0 | 41.2 | 74.4 | 102.9 | 121.9 | 85.5 | 172.6 | 215.3 | 224.8 | 147.2 | 64.9 |
| 85° | 14.2 | 17.4 | 45.9 | 72.8 | 63.3 | 39.6 | 50.7 | 61.7 | 80.7 | 80.7 | 30.1 |
| 87.5° | 0.0 | 1.6 | 19.0 | 31.7 | 15.8 | 11.1 | 14.2 | 17.4 | 22.2 | 38.0 | 11.1 |
| 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° | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 | 1257.0 |
| 2.5° | 1271.2 | 1260.1 | 1264.9 | 1272.8 | 1255.4 | 1264.9 | 1245.9 | 1260.1 | 1264.9 | 1245.9 | 1255.4 |
| 5° | 1287.0 | 1298.1 | 1291.8 | 1279.1 | 1268.0 | 1271.2 | 1266.5 | 1255.4 | 1264.9 | 1268.0 | 1261.7 |
| 7.5° | 1332.9 | 1320.3 | 1323.4 | 1309.2 | 1287.0 | 1285.5 | 1255.4 | 1247.5 | 1250.6 | 1253.8 | 1242.7 |
| 10° | 1375.7 | 1383.6 | 1367.8 | 1356.7 | 1320.3 | 1296.5 | 1255.4 | 1211.0 | 1206.3 | 1187.3 | 1203.1 |
| 12.5° | 1451.7 | 1432.7 | 1426.3 | 1389.9 | 1353.5 | 1274.4 | 1185.7 | 1117.6 | 1060.7 | 1040.1 | 1019.5 |
| 15° | 1515.0 | 1511.8 | 1500.8 | 1445.3 | 1361.4 | 1217.4 | 1049.6 | 891.3 | 782.0 | 714.0 | 704.5 |
| 17.5° | 1602.1 | 1587.8 | 1567.2 | 1480.2 | 1302.9 | 1068.6 | 782.0 | 582.6 | 473.3 | 430.6 | 414.8 |
| 20° | 1668.6 | 1657.5 | 1629.0 | 1472.3 | 1196.8 | 796.3 | 484.4 | 370.4 | 343.5 | 335.6 | 337.2 |
| 22.5° | 1765.1 | 1730.3 | 1676.5 | 1432.7 | 1003.7 | 530.3 | 348.3 | 330.9 | 326.1 | 319.8 | 321.4 |
| 25° | 1849.0 | 1817.4 | 1705.0 | 1364.6 | 715.5 | 351.4 | 322.9 | 313.4 | 305.5 | 297.6 | 296.0 |
| 27.5° | 1923.4 | 1883.9 | 1735.0 | 1225.3 | 448.0 | 302.4 | 299.2 | 288.1 | 272.3 | 259.6 | 254.9 |
| 30° | 1996.3 | 1950.3 | 1743.0 | 964.1 | 302.4 | 273.9 | 266.0 | 248.5 | 228.0 | 210.5 | 207.4 |
| 32.5° | 2118.1 | 2062.7 | 1731.9 | 688.6 | 261.2 | 243.8 | 226.4 | 205.8 | 175.7 | 161.5 | 158.3 |
| 35° | 2308.1 | 2224.2 | 1717.6 | 405.3 | 234.3 | 215.3 | 188.4 | 161.5 | 139.3 | 125.1 | 121.9 |
| 37.5° | 2526.6 | 2380.9 | 1676.5 | 270.7 | 215.3 | 190.0 | 155.1 | 128.2 | 109.2 | 98.2 | 95.0 |
| 40° | 2851.1 | 2610.5 | 1518.2 | 221.6 | 191.6 | 161.5 | 125.1 | 101.3 | 87.1 | 79.2 | 76.0 |
| 42.5° | 3208.9 | 2873.3 | 1274.4 | 199.5 | 169.4 | 137.7 | 99.7 | 82.3 | 71.2 | 63.3 | 63.3 |
| 45° | 3637.9 | 3147.1 | 983.1 | 182.1 | 150.4 | 114.0 | 82.3 | 66.5 | 57.0 | 50.7 | 47.5 |
| 47.5° | 4116.0 | 3395.7 | 663.3 | 164.6 | 126.6 | 93.4 | 68.1 | 50.7 | 41.2 | 36.4 | 36.4 |
| 50° | 4543.4 | 3615.7 | 422.7 | 144.1 | 110.8 | 77.6 | 55.4 | 41.2 | 33.2 | 26.9 | 25.3 |
| 52.5° | 4931.3 | 3783.5 | 291.3 | 126.6 | 95.0 | 63.3 | 45.9 | 33.2 | 25.3 | 20.6 | 20.6 |
| 55° | 5328.6 | 3869.0 | 215.3 | 109.2 | 82.3 | 53.8 | 38.0 | 30.1 | 22.2 | 17.4 | 15.8 |
| 57.5° | 5654.7 | 3905.4 | 164.6 | 95.0 | 69.7 | 42.7 | 33.2 | 25.3 | 19.0 | 14.2 | 12.7 |
| 60° | 5933.3 | 3888.0 | 128.2 | 79.2 | 55.4 | 36.4 | 28.5 | 20.6 | 15.8 | 11.1 | 9.5 |
| 62.5° | 6096.4 | 3783.5 | 101.3 | 68.1 | 44.3 | 31.7 | 23.7 | 17.4 | 11.1 | 7.9 | 6.3 |
| 65° | 6099.6 | 3561.9 | 79.2 | 50.7 | 33.2 | 26.9 | 20.6 | 14.2 | 7.9 | 3.2 | 1.6 |
| 67.5° | 5662.6 | 3082.2 | 63.3 | 39.6 | 26.9 | 20.6 | 15.8 | 11.1 | 3.2 | 0.0 | 0.0 |
| 70° | 4429.4 | 2331.9 | 52.2 | 31.7 | 22.2 | 17.4 | 11.1 | 6.3 | 1.6 | 0.0 | 0.0 |
| 72.5° | 2822.6 | 1396.3 | 42.7 | 25.3 | 19.0 | 12.7 | 7.9 | 4.7 | 0.0 | 0.0 | 0.0 |
| 75° | 1181.0 | 430.6 | 33.2 | 22.2 | 14.2 | 9.5 | 6.3 | 1.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 303.9 | 136.1 | 26.9 | 19.0 | 14.2 | 7.9 | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 |
| 80° | 90.2 | 50.7 | 22.2 | 15.8 | 11.1 | 6.3 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 41.2 | 30.1 | 19.0 | 14.2 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.8 | 9.5 | 9.5 | 7.9 | 7.9 | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.3 | 3.2 | 3.2 | 3.2 | 1.6 | 1.6 | 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)