

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: P526096

Luminaire Tested: **GLAN-SA1A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3890 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

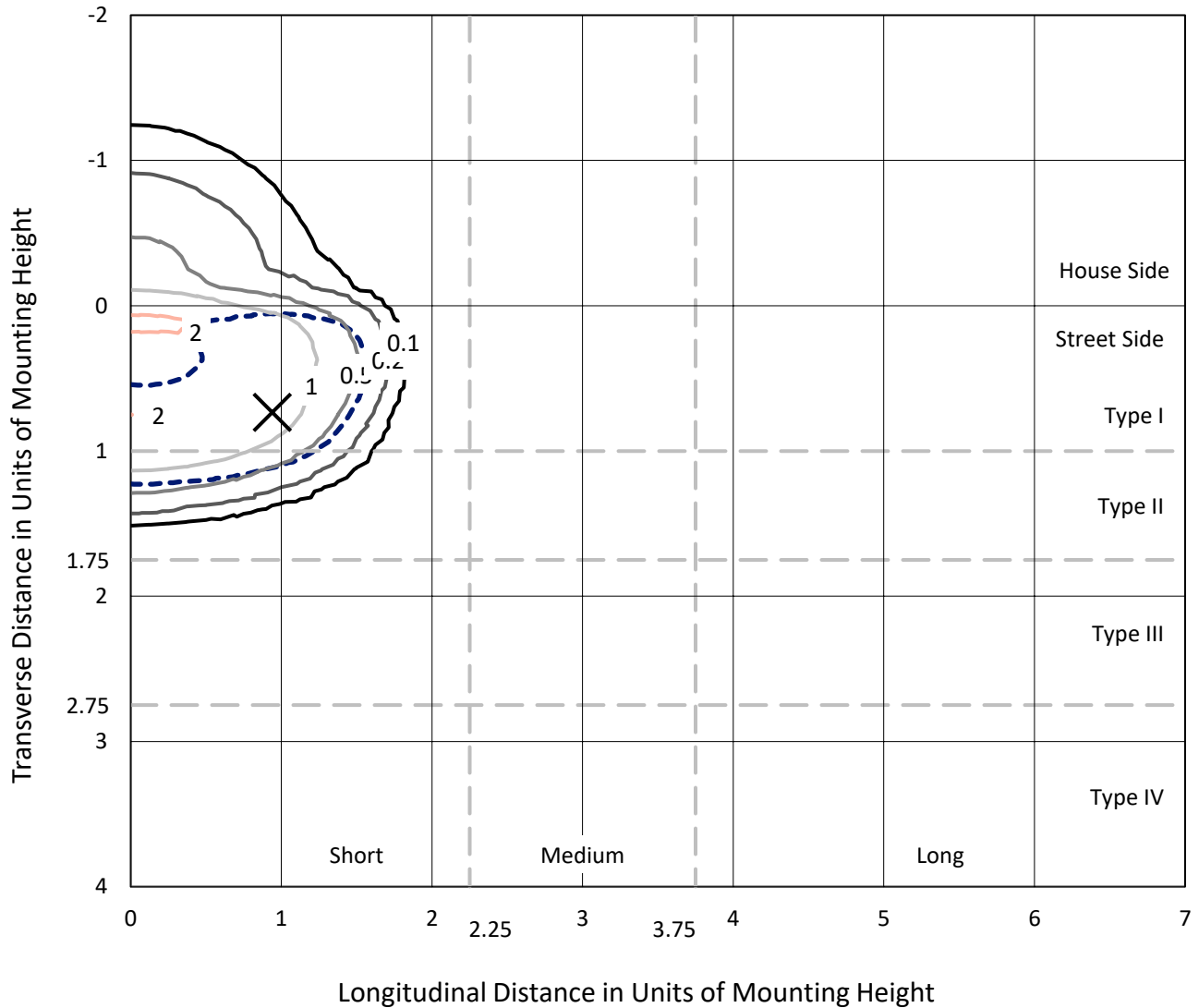
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

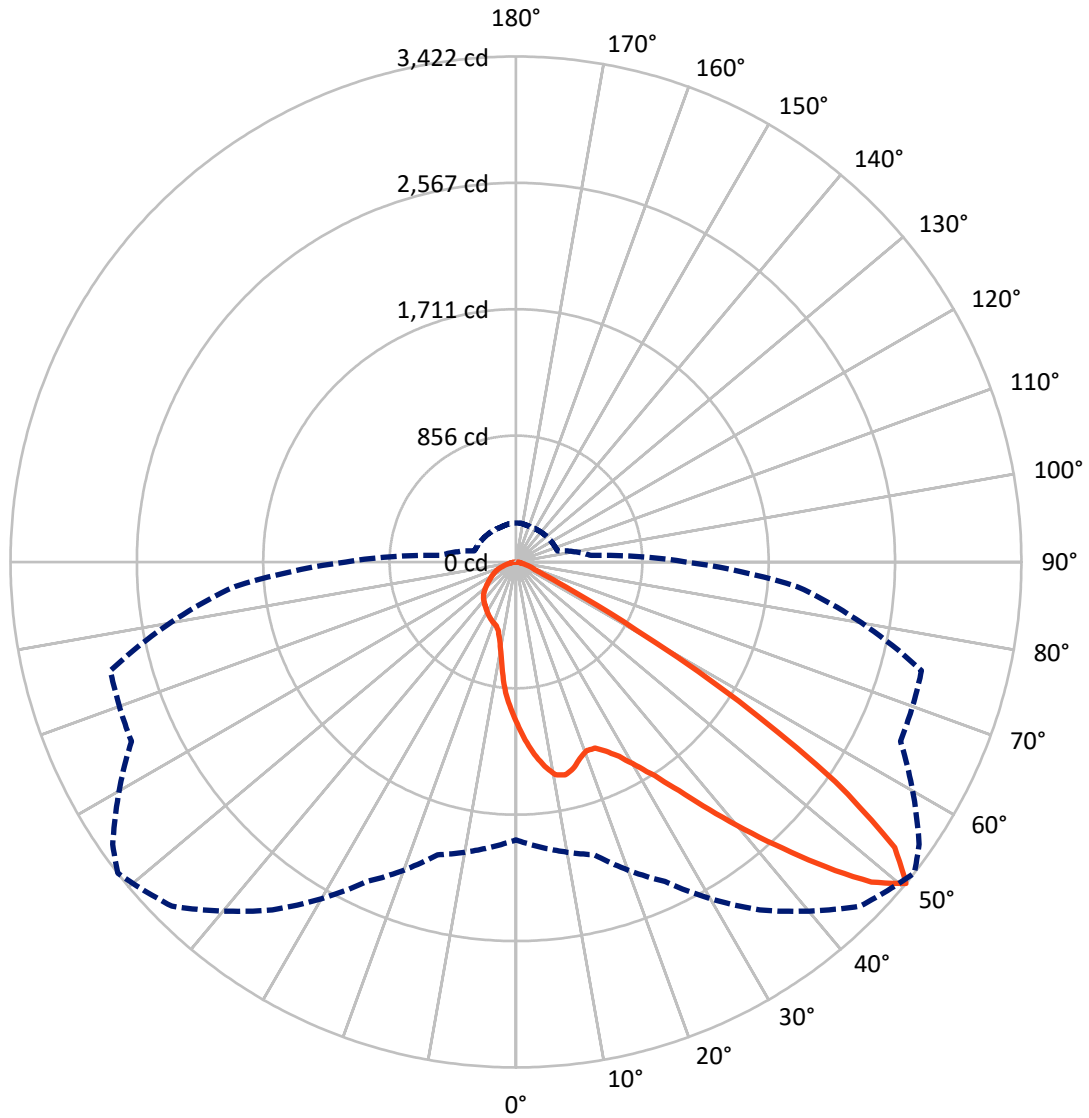
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 731.2 | 0.0 | 731.2 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 3158.8 | 0.0 | 3158.8 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 3890.0 | 0.0 | 3890.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.1 | 2.6 |
| 10°-20° | 270.9 | 7.0 |
| 20°-30° | 456.3 | 11.7 |
| 30°-40° | 765.7 | 19.7 |
| 40°-50° | 1171.3 | 30.1 |
| 50°-60° | 854.0 | 22.0 |
| 60°-70° | 190.1 | 4.9 |
| 70°-80° | 68.5 | 1.8 |
| 80°-90° | 12.1 | 0.3 |
| 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° | 3890.0 | 100.0 |
| 0°-180° | 3890.0 | 100.0 |

Coefficient of Utilization

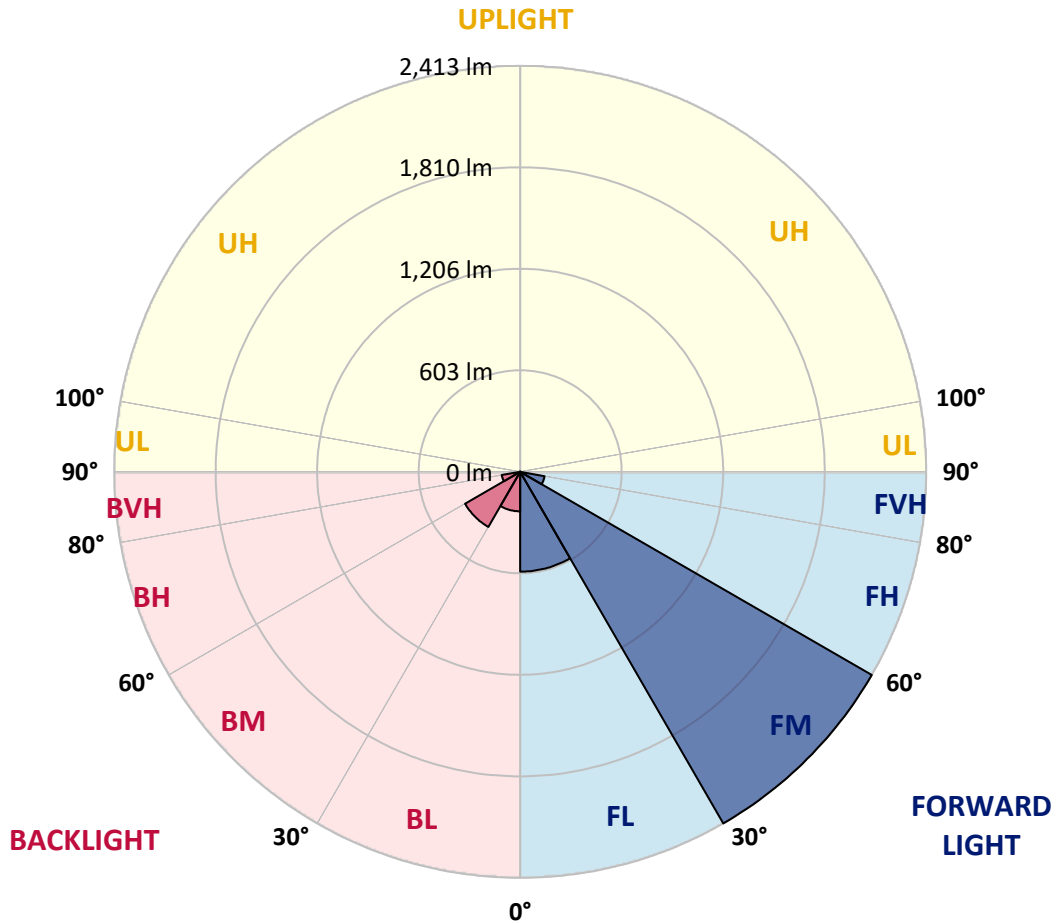


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 593.4 | 15.3 | | | |
| FM (30°-60°) | 2412.8 | 62.0 | | | |
| FH (60°-80°) | 147.2 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 5.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 234.9 | 6.0 | B1/500 | | |
| BM (30°-60°) | 378.2 | 9.7 | B1/1000 | | |
| BH (60°-80°) | 111.4 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.7 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 |
| 2.5° | 1291.1 | 1266.2 | 1269.0 | 1251.2 | 1232.0 | 1226.4 | 1206.7 | 1187.9 | 1173.9 | 1143.9 | 1116.2 |
| 5° | 1411.1 | 1403.6 | 1392.3 | 1378.3 | 1363.7 | 1328.1 | 1308.0 | 1284.5 | 1232.9 | 1186.5 | 1140.6 |
| 7.5° | 1428.4 | 1427.0 | 1433.1 | 1433.1 | 1438.3 | 1424.7 | 1396.1 | 1379.7 | 1324.8 | 1249.4 | 1164.0 |
| 10° | 1306.5 | 1310.8 | 1340.3 | 1378.7 | 1432.2 | 1469.2 | 1464.5 | 1460.3 | 1400.3 | 1297.2 | 1191.7 |
| 12.5° | 1209.5 | 1200.1 | 1217.5 | 1250.3 | 1330.5 | 1420.0 | 1480.5 | 1480.9 | 1465.5 | 1373.6 | 1211.9 |
| 15° | 1154.7 | 1161.2 | 1165.9 | 1181.4 | 1241.9 | 1345.5 | 1451.9 | 1483.3 | 1551.3 | 1427.5 | 1243.7 |
| 17.5° | 1189.8 | 1167.8 | 1166.8 | 1170.6 | 1201.5 | 1279.4 | 1398.9 | 1452.8 | 1598.1 | 1496.9 | 1283.1 |
| 20° | 1235.8 | 1235.3 | 1222.2 | 1217.5 | 1217.0 | 1286.4 | 1364.2 | 1437.3 | 1623.0 | 1586.9 | 1323.0 |
| 22.5° | 1316.4 | 1316.4 | 1294.8 | 1284.5 | 1262.5 | 1319.2 | 1368.9 | 1418.6 | 1664.2 | 1648.8 | 1342.2 |
| 25° | 1451.4 | 1429.4 | 1392.3 | 1367.0 | 1354.4 | 1374.5 | 1418.6 | 1463.1 | 1700.3 | 1714.4 | 1382.0 |
| 27.5° | 1576.1 | 1541.4 | 1523.1 | 1479.5 | 1462.7 | 1450.9 | 1491.3 | 1536.3 | 1742.5 | 1816.6 | 1403.6 |
| 30° | 1717.7 | 1711.6 | 1678.8 | 1622.5 | 1580.8 | 1559.2 | 1596.3 | 1640.8 | 1819.9 | 1921.1 | 1453.3 |
| 32.5° | 1970.8 | 1915.5 | 1871.0 | 1802.1 | 1734.1 | 1688.2 | 1724.7 | 1754.3 | 1948.3 | 2030.4 | 1507.7 |
| 35° | 2244.2 | 2226.3 | 2149.5 | 2025.2 | 1921.1 | 1879.9 | 1901.5 | 1923.5 | 2097.9 | 2197.3 | 1599.1 |
| 37.5° | 2512.8 | 2488.4 | 2425.1 | 2320.6 | 2194.0 | 2110.1 | 2125.5 | 2151.3 | 2265.7 | 2422.3 | 1710.7 |
| 40° | 2705.9 | 2675.9 | 2644.0 | 2628.6 | 2502.9 | 2388.1 | 2379.2 | 2385.7 | 2492.6 | 2633.3 | 1834.4 |
| 42.5° | 2720.0 | 2757.0 | 2766.9 | 2829.2 | 2799.7 | 2705.5 | 2650.6 | 2652.0 | 2709.2 | 2841.9 | 1959.6 |
| 45° | 2690.5 | 2656.2 | 2728.9 | 2899.1 | 2996.6 | 3040.6 | 2948.3 | 2936.6 | 2843.3 | 2962.8 | 2021.9 |
| 47.5° | 2380.6 | 2389.9 | 2512.8 | 2781.9 | 3063.6 | 3260.5 | 3238.9 | 3200.0 | 2915.0 | 2958.6 | 2012.1 |
| 50° | 1881.8 | 1938.5 | 2052.4 | 2387.6 | 2876.1 | 3295.2 | 3422.3 | 3332.2 | 2872.3 | 2842.3 | 1911.8 |
| 52.5° | 1253.1 | 1276.5 | 1351.6 | 1784.3 | 2312.6 | 2945.5 | 3211.3 | 3231.9 | 2833.0 | 2690.0 | 1784.7 |
| 55° | 557.9 | 556.0 | 661.5 | 932.0 | 1450.9 | 2241.3 | 2623.9 | 2749.5 | 2681.5 | 2534.8 | 1661.0 |
| 57.5° | 236.3 | 244.2 | 287.4 | 402.7 | 713.5 | 1352.5 | 1777.7 | 1887.9 | 2062.3 | 2081.5 | 1274.2 |
| 60° | 159.9 | 160.8 | 172.5 | 201.6 | 298.6 | 635.2 | 932.4 | 1064.6 | 1189.3 | 1180.9 | 676.0 |
| 62.5° | 125.6 | 128.9 | 137.8 | 149.5 | 177.2 | 288.3 | 417.2 | 490.8 | 498.8 | 419.6 | 256.4 |
| 65° | 107.4 | 107.8 | 116.7 | 126.6 | 138.8 | 167.8 | 201.1 | 204.9 | 207.2 | 199.7 | 188.5 |
| 67.5° | 88.6 | 89.5 | 96.6 | 107.8 | 119.1 | 128.5 | 137.8 | 142.5 | 153.3 | 174.4 | 171.6 |
| 70° | 70.3 | 71.7 | 77.8 | 87.2 | 97.5 | 103.1 | 114.9 | 119.1 | 128.9 | 145.3 | 151.9 |
| 72.5° | 53.4 | 53.9 | 59.1 | 65.6 | 75.0 | 80.6 | 90.5 | 95.2 | 101.7 | 115.8 | 121.9 |
| 75° | 38.4 | 39.8 | 43.6 | 46.9 | 48.3 | 52.0 | 61.4 | 66.6 | 75.9 | 82.0 | 82.5 |
| 77.5° | 20.2 | 21.1 | 22.0 | 22.0 | 26.7 | 33.8 | 39.8 | 42.7 | 49.2 | 53.9 | 51.6 |
| 80° | 8.0 | 8.4 | 10.8 | 14.5 | 18.8 | 24.4 | 28.6 | 30.0 | 35.6 | 38.4 | 39.8 |
| 82.5° | 4.7 | 5.2 | 7.0 | 10.3 | 13.6 | 17.3 | 20.6 | 22.0 | 25.8 | 29.1 | 30.0 |
| 85° | 2.3 | 2.8 | 4.2 | 6.6 | 8.9 | 10.8 | 10.3 | 9.8 | 9.8 | 9.4 | 9.8 |
| 87.5° | 0.9 | 0.9 | 1.4 | 1.4 | 1.4 | 1.9 | 2.3 | 2.3 | 2.3 | 2.8 | 2.8 |
| 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° | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 | 1096.5 |
| 2.5° | 1097.9 | 1079.2 | 1061.8 | 1030.0 | 995.3 | 985.4 | 945.1 | 930.6 | 920.3 | 908.1 | 904.3 |
| 5° | 1103.6 | 1078.7 | 1022.9 | 958.7 | 907.6 | 842.0 | 798.8 | 752.4 | 718.7 | 710.2 | 707.9 |
| 7.5° | 1115.3 | 1072.6 | 976.5 | 879.5 | 774.9 | 685.9 | 617.9 | 581.3 | 549.0 | 547.1 | 543.8 |
| 10° | 1128.4 | 1054.3 | 925.9 | 773.5 | 639.9 | 557.4 | 516.6 | 500.7 | 492.7 | 490.8 | 489.9 |
| 12.5° | 1139.2 | 1050.6 | 869.2 | 670.4 | 544.3 | 494.6 | 482.4 | 481.0 | 484.3 | 485.2 | 487.1 |
| 15° | 1143.9 | 1035.6 | 800.7 | 578.0 | 484.7 | 466.5 | 471.6 | 477.2 | 479.6 | 485.7 | 481.0 |
| 17.5° | 1152.8 | 1016.4 | 716.3 | 504.9 | 451.5 | 454.7 | 463.6 | 470.2 | 474.0 | 478.2 | 472.1 |
| 20° | 1157.5 | 999.0 | 637.1 | 461.3 | 439.7 | 445.8 | 458.0 | 463.2 | 467.9 | 469.7 | 462.7 |
| 22.5° | 1153.3 | 963.4 | 567.2 | 426.1 | 428.5 | 436.5 | 447.2 | 452.9 | 450.0 | 442.5 | 438.3 |
| 25° | 1142.0 | 913.2 | 494.6 | 403.6 | 412.5 | 426.6 | 435.0 | 430.8 | 425.7 | 421.5 | 420.0 |
| 27.5° | 1141.5 | 851.8 | 442.1 | 383.0 | 399.0 | 418.2 | 415.4 | 411.6 | 414.0 | 410.7 | 406.9 |
| 30° | 1143.9 | 792.3 | 399.0 | 371.3 | 389.1 | 398.5 | 401.8 | 398.0 | 400.8 | 394.7 | 396.6 |
| 32.5° | 1131.7 | 734.1 | 370.8 | 357.7 | 377.4 | 376.9 | 387.7 | 390.5 | 383.9 | 371.3 | 373.2 |
| 35° | 1136.8 | 687.3 | 346.9 | 351.6 | 364.3 | 364.3 | 372.7 | 369.4 | 352.1 | 344.6 | 346.4 |
| 37.5° | 1172.5 | 641.3 | 335.2 | 343.2 | 351.6 | 355.4 | 352.5 | 338.5 | 334.3 | 334.3 | 335.2 |
| 40° | 1206.2 | 601.9 | 328.2 | 341.3 | 339.9 | 342.2 | 321.6 | 323.0 | 323.0 | 323.5 | 321.1 |
| 42.5° | 1236.2 | 575.2 | 322.5 | 330.0 | 332.4 | 320.2 | 307.5 | 306.1 | 309.4 | 308.9 | 307.1 |
| 45° | 1247.0 | 553.2 | 314.6 | 317.4 | 319.3 | 299.1 | 293.0 | 290.2 | 293.9 | 295.3 | 297.2 |
| 47.5° | 1205.8 | 534.9 | 305.7 | 300.0 | 296.3 | 283.2 | 275.2 | 270.0 | 274.7 | 282.7 | 284.6 |
| 50° | 1152.8 | 511.0 | 291.6 | 280.8 | 272.8 | 267.2 | 261.6 | 256.4 | 259.7 | 265.3 | 263.9 |
| 52.5° | 1074.5 | 473.5 | 273.8 | 262.5 | 248.9 | 250.3 | 245.2 | 242.4 | 244.2 | 244.2 | 242.8 |
| 55° | 962.9 | 389.1 | 243.8 | 235.8 | 224.6 | 228.3 | 229.2 | 225.5 | 221.7 | 225.0 | 222.2 |
| 57.5° | 657.3 | 274.7 | 217.5 | 217.5 | 206.3 | 211.4 | 211.0 | 202.1 | 193.1 | 194.1 | 192.2 |
| 60° | 380.2 | 218.9 | 200.6 | 198.8 | 187.1 | 191.3 | 192.2 | 186.1 | 172.5 | 173.5 | 171.6 |
| 62.5° | 216.1 | 187.1 | 175.3 | 172.5 | 170.2 | 173.9 | 173.9 | 166.0 | 154.2 | 155.2 | 153.3 |
| 65° | 183.8 | 173.5 | 156.6 | 156.1 | 155.2 | 156.1 | 152.4 | 143.9 | 133.6 | 129.4 | 129.9 |
| 67.5° | 166.9 | 160.3 | 143.9 | 139.7 | 136.9 | 136.4 | 129.4 | 121.4 | 116.7 | 113.0 | 112.5 |
| 70° | 146.3 | 141.1 | 128.9 | 123.3 | 120.5 | 113.9 | 106.9 | 101.7 | 95.2 | 93.3 | 95.2 |
| 72.5° | 115.8 | 115.3 | 110.6 | 104.5 | 98.4 | 93.3 | 87.2 | 80.2 | 74.1 | 72.7 | 69.4 |
| 75° | 80.2 | 81.1 | 82.0 | 81.1 | 75.9 | 69.4 | 62.4 | 56.7 | 49.2 | 45.0 | 44.1 |
| 77.5° | 52.5 | 53.9 | 55.3 | 53.4 | 50.2 | 44.1 | 39.4 | 32.3 | 26.7 | 23.4 | 23.0 |
| 80° | 38.4 | 40.3 | 41.3 | 39.8 | 36.1 | 31.4 | 26.3 | 20.6 | 16.4 | 13.6 | 13.6 |
| 82.5° | 29.5 | 31.4 | 32.3 | 30.0 | 26.3 | 22.5 | 18.8 | 14.5 | 11.3 | 8.9 | 8.4 |
| 85° | 10.3 | 9.8 | 11.7 | 12.2 | 14.5 | 13.6 | 11.3 | 8.4 | 6.6 | 4.7 | 4.2 |
| 87.5° | 2.8 | 2.8 | 3.3 | 3.3 | 2.8 | 2.3 | 2.3 | 2.3 | 1.9 | 1.4 | 1.4 |
| 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)