

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: P319225

Luminaire Tested: **GAN-SA1A-722-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-722-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3562 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

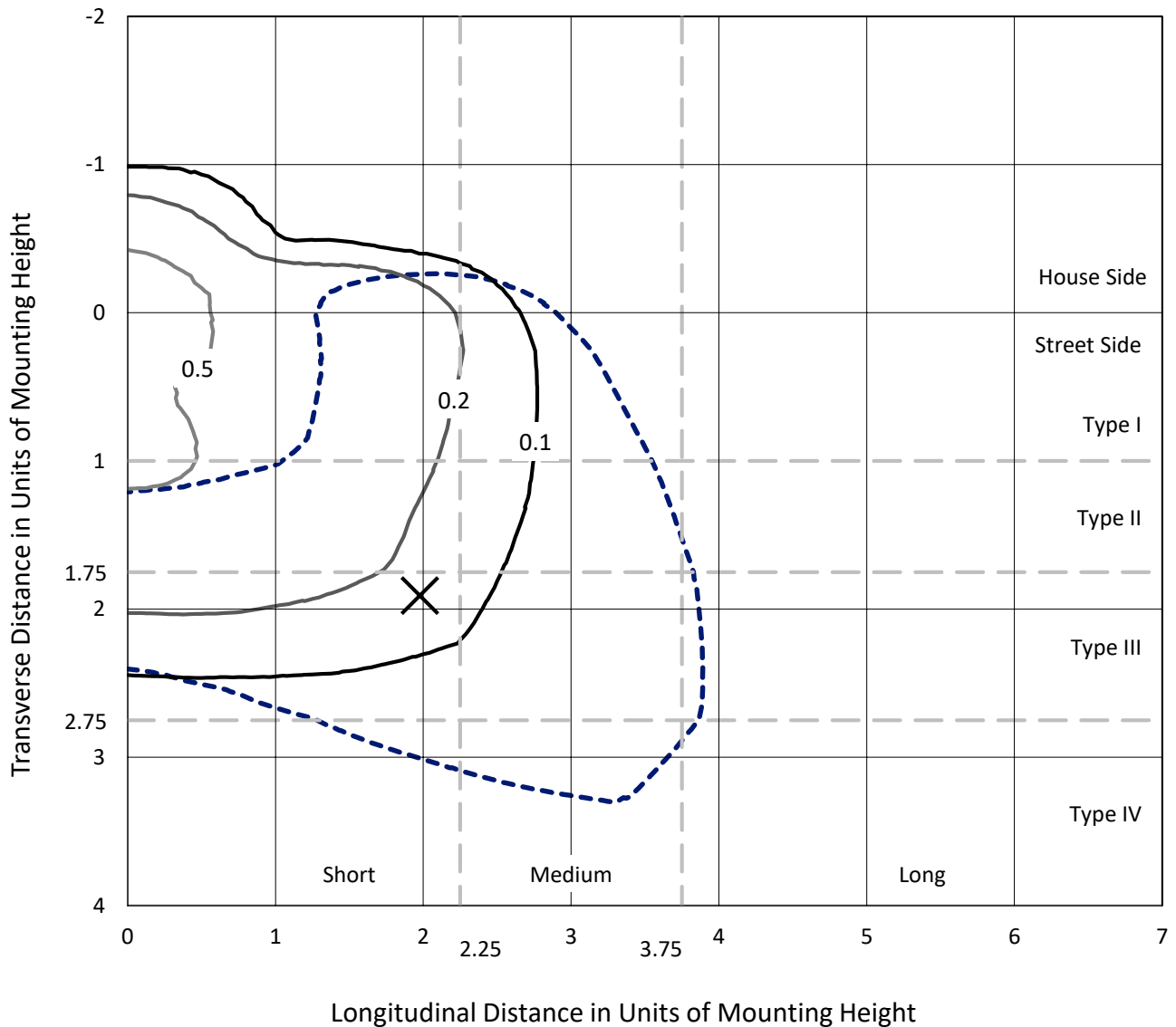
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

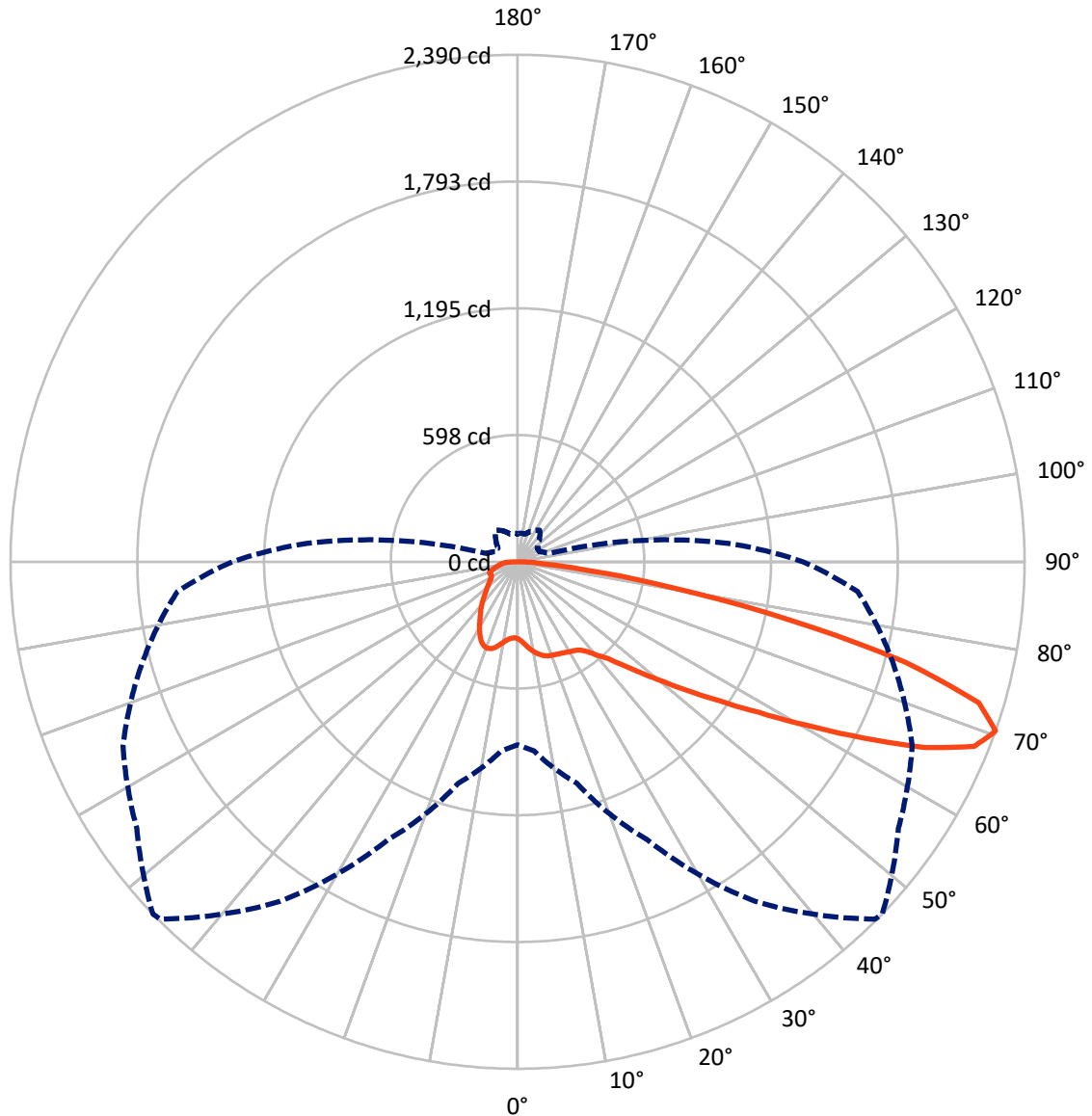
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 816.4 | 0.0 | 816.4 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 2745.6 | 0.0 | 2745.6 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 3562.0 | 0.0 | 3562.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.0 | 1.0 |
| 10°-20° | 123.3 | 3.5 |
| 20°-30° | 205.5 | 5.8 |
| 30°-40° | 291.6 | 8.2 |
| 40°-50° | 429.0 | 12.0 |
| 50°-60° | 726.5 | 20.4 |
| 60°-70° | 1031.2 | 29.0 |
| 70°-80° | 626.5 | 17.6 |
| 80°-90° | 91.4 | 2.6 |
| 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° | 3562.0 | 100.0 |
| 0°-180° | 3562.0 | 100.0 |

Coefficient of Utilization

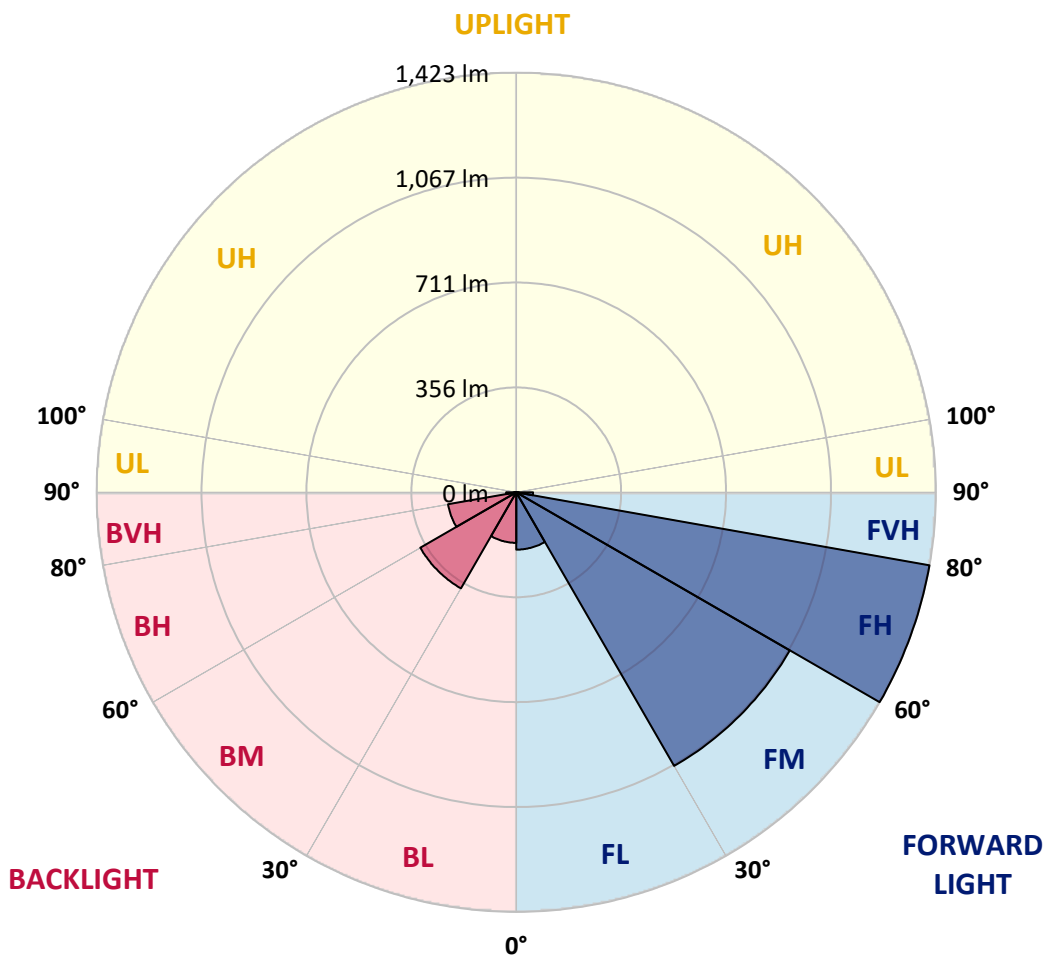


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 194.4 | 5.5 | | | |
| FM (30°-60°) | 1071.3 | 30.1 | | | |
| FH (60°-80°) | 1423.0 | 39.9 | | | G1/1800 |
| FVH (80°-90°) | 57.0 | 1.6 | | | G1/100 |
| BL (0°-30°) | 171.4 | 4.8 | B1/500 | | |
| BM (30°-60°) | 375.8 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 234.7 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 34.5 | 1.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 |
| 2.5° | 381.1 | 381.3 | 381.8 | 380.6 | 377.2 | 376.2 | 375.8 | 372.3 | 370.0 | 366.6 | 363.6 |
| 5° | 411.5 | 411.8 | 411.0 | 407.6 | 400.1 | 394.5 | 394.0 | 385.9 | 378.6 | 370.8 | 365.0 |
| 7.5° | 443.4 | 443.7 | 441.4 | 434.9 | 424.3 | 414.6 | 414.0 | 403.0 | 391.9 | 380.1 | 371.3 |
| 10° | 471.5 | 470.0 | 466.3 | 457.2 | 444.7 | 432.7 | 432.3 | 420.8 | 408.0 | 393.7 | 382.0 |
| 12.5° | 490.3 | 489.1 | 484.2 | 473.2 | 459.4 | 448.5 | 447.5 | 436.9 | 424.5 | 408.9 | 394.8 |
| 15° | 500.6 | 501.5 | 494.9 | 482.5 | 469.1 | 459.8 | 459.0 | 451.4 | 440.3 | 424.6 | 408.5 |
| 17.5° | 502.0 | 502.7 | 496.4 | 484.1 | 473.1 | 466.8 | 466.4 | 461.4 | 453.3 | 438.2 | 421.4 |
| 20° | 494.2 | 494.7 | 489.4 | 479.3 | 472.1 | 470.2 | 470.0 | 467.9 | 461.9 | 448.5 | 432.1 |
| 22.5° | 482.8 | 483.2 | 479.4 | 472.1 | 469.7 | 472.7 | 473.6 | 472.7 | 468.5 | 455.9 | 440.5 |
| 25° | 480.0 | 479.8 | 475.9 | 468.5 | 470.5 | 477.0 | 478.1 | 478.5 | 475.5 | 464.6 | 451.3 |
| 27.5° | 493.6 | 492.7 | 485.3 | 473.3 | 474.7 | 482.5 | 483.9 | 487.5 | 485.7 | 476.0 | 463.5 |
| 30° | 532.7 | 531.2 | 516.0 | 491.9 | 485.3 | 489.3 | 491.1 | 496.7 | 497.1 | 489.1 | 479.7 |
| 32.5° | 598.8 | 596.9 | 569.6 | 526.5 | 503.2 | 496.3 | 498.0 | 506.4 | 510.9 | 504.7 | 494.6 |
| 35° | 682.3 | 680.2 | 644.4 | 585.4 | 533.2 | 509.5 | 510.8 | 517.5 | 526.5 | 517.7 | 504.3 |
| 37.5° | 769.3 | 764.3 | 729.8 | 654.6 | 580.9 | 537.9 | 537.9 | 538.8 | 543.1 | 524.8 | 515.8 |
| 40° | 855.9 | 850.9 | 819.7 | 736.0 | 642.5 | 582.7 | 579.9 | 561.0 | 557.6 | 541.8 | 538.8 |
| 42.5° | 936.3 | 934.9 | 916.4 | 828.1 | 714.9 | 626.7 | 622.8 | 590.7 | 591.5 | 581.7 | 581.8 |
| 45° | 1021.9 | 1021.9 | 1006.9 | 921.0 | 799.3 | 697.4 | 693.5 | 646.3 | 653.6 | 649.1 | 660.0 |
| 47.5° | 1091.7 | 1093.9 | 1091.9 | 1017.7 | 897.4 | 787.2 | 780.2 | 723.4 | 743.8 | 759.3 | 790.9 |
| 50° | 1163.1 | 1166.5 | 1166.8 | 1123.9 | 1016.0 | 894.0 | 886.0 | 825.6 | 871.3 | 915.7 | 977.8 |
| 52.5° | 1266.5 | 1274.2 | 1243.6 | 1229.9 | 1161.3 | 1020.8 | 1012.9 | 957.2 | 1033.5 | 1095.8 | 1202.7 |
| 55° | 1362.5 | 1355.8 | 1334.0 | 1342.5 | 1316.9 | 1165.1 | 1159.2 | 1110.3 | 1214.1 | 1295.1 | 1433.9 |
| 57.5° | 1414.4 | 1413.9 | 1435.9 | 1472.4 | 1484.6 | 1343.1 | 1338.1 | 1290.6 | 1417.8 | 1478.7 | 1651.0 |
| 60° | 1475.4 | 1476.2 | 1530.6 | 1613.6 | 1663.8 | 1564.7 | 1562.5 | 1526.4 | 1615.7 | 1650.0 | 1821.3 |
| 62.5° | 1483.9 | 1499.3 | 1592.9 | 1735.7 | 1831.6 | 1823.6 | 1828.5 | 1738.9 | 1792.7 | 1786.8 | 1948.5 |
| 65° | 1385.8 | 1406.0 | 1575.4 | 1772.7 | 1998.3 | 2106.8 | 2111.3 | 1952.6 | 1932.2 | 1903.7 | 1993.9 |
| 67.5° | 1184.6 | 1214.6 | 1398.7 | 1692.3 | 2053.3 | 2316.1 | 2322.5 | 2118.3 | 2048.1 | 1943.3 | 1884.5 |
| 70° | 862.1 | 895.4 | 1080.6 | 1445.4 | 1955.3 | 2383.0 | 2390.2 | 2191.5 | 2052.4 | 1830.6 | 1608.7 |
| 72.5° | 520.8 | 546.8 | 699.6 | 1064.1 | 1650.3 | 2261.1 | 2273.9 | 2098.6 | 1873.9 | 1550.6 | 1187.9 |
| 75° | 228.7 | 245.8 | 338.3 | 613.2 | 1181.5 | 1870.8 | 1886.8 | 1796.3 | 1522.5 | 1126.8 | 702.1 |
| 77.5° | 97.4 | 102.3 | 138.7 | 266.4 | 667.9 | 1278.4 | 1300.3 | 1312.5 | 1033.0 | 613.2 | 296.7 |
| 80° | 60.7 | 62.7 | 78.5 | 120.6 | 312.6 | 718.0 | 741.6 | 772.2 | 513.0 | 225.4 | 103.6 |
| 82.5° | 36.9 | 39.1 | 52.2 | 72.9 | 162.7 | 325.5 | 336.8 | 358.4 | 199.1 | 97.4 | 53.6 |
| 85° | 22.2 | 23.8 | 31.9 | 46.1 | 92.6 | 128.0 | 127.9 | 141.4 | 93.7 | 62.7 | 28.3 |
| 87.5° | 10.6 | 11.8 | 17.1 | 23.9 | 46.7 | 48.0 | 45.0 | 51.0 | 56.9 | 41.1 | 14.3 |
| 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° | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 | 362.9 |
| 2.5° | 362.7 | 362.2 | 360.6 | 359.4 | 359.1 | 358.4 | 357.8 | 358.1 | 358.6 | 358.8 | 358.8 |
| 5° | 362.5 | 361.2 | 359.1 | 358.3 | 359.4 | 360.8 | 362.7 | 365.1 | 366.6 | 367.7 | 368.4 |
| 7.5° | 368.4 | 365.8 | 363.5 | 363.0 | 365.2 | 369.1 | 373.3 | 378.4 | 381.9 | 384.4 | 384.8 |
| 10° | 378.1 | 375.0 | 372.7 | 373.1 | 377.0 | 382.6 | 388.5 | 395.1 | 400.4 | 403.7 | 404.0 |
| 12.5° | 389.4 | 386.3 | 384.1 | 386.2 | 392.6 | 399.5 | 405.6 | 411.3 | 416.2 | 419.5 | 419.5 |
| 15° | 402.3 | 400.1 | 397.5 | 402.3 | 411.0 | 417.1 | 419.7 | 422.5 | 425.2 | 427.6 | 427.1 |
| 17.5° | 414.7 | 412.6 | 411.3 | 416.9 | 426.0 | 428.8 | 427.1 | 425.1 | 425.1 | 426.4 | 426.7 |
| 20° | 425.4 | 423.6 | 424.5 | 429.9 | 434.7 | 431.8 | 425.4 | 418.9 | 416.2 | 416.9 | 417.6 |
| 22.5° | 434.8 | 434.0 | 436.5 | 439.1 | 435.7 | 425.4 | 413.7 | 404.8 | 401.5 | 401.3 | 401.5 |
| 25° | 445.8 | 445.7 | 448.8 | 444.2 | 429.1 | 410.2 | 394.5 | 385.8 | 384.0 | 385.4 | 387.9 |
| 27.5° | 459.4 | 460.8 | 462.4 | 445.4 | 415.7 | 387.2 | 371.2 | 365.2 | 367.0 | 370.6 | 372.9 |
| 30° | 476.9 | 480.5 | 477.1 | 442.4 | 396.4 | 360.8 | 345.6 | 343.9 | 348.9 | 353.9 | 356.3 |
| 32.5° | 493.8 | 499.5 | 491.3 | 434.5 | 371.6 | 332.9 | 321.1 | 320.6 | 326.7 | 331.6 | 335.0 |
| 35° | 507.5 | 518.8 | 501.9 | 418.7 | 342.8 | 307.2 | 298.5 | 295.2 | 297.4 | 303.2 | 307.1 |
| 37.5° | 525.3 | 544.2 | 509.2 | 394.7 | 311.6 | 286.0 | 275.9 | 268.3 | 266.4 | 268.7 | 270.6 |
| 40° | 557.8 | 582.8 | 512.6 | 361.2 | 281.1 | 264.8 | 254.5 | 243.4 | 235.8 | 230.1 | 230.3 |
| 42.5° | 611.0 | 633.2 | 510.4 | 320.5 | 252.9 | 244.0 | 232.5 | 219.7 | 207.2 | 194.6 | 193.6 |
| 45° | 697.3 | 708.0 | 503.8 | 277.3 | 228.2 | 222.3 | 211.5 | 198.7 | 182.1 | 167.7 | 166.4 |
| 47.5° | 835.4 | 811.6 | 493.6 | 239.7 | 206.4 | 203.9 | 193.9 | 179.2 | 161.6 | 150.1 | 149.1 |
| 50° | 1023.7 | 961.2 | 488.6 | 209.7 | 187.1 | 187.8 | 179.7 | 164.1 | 147.5 | 139.0 | 138.0 |
| 52.5° | 1249.0 | 1135.4 | 498.2 | 186.5 | 171.6 | 174.2 | 168.1 | 153.5 | 139.6 | 132.9 | 131.9 |
| 55° | 1482.7 | 1315.8 | 508.6 | 169.7 | 157.0 | 162.0 | 159.9 | 147.9 | 135.3 | 129.1 | 128.2 |
| 57.5° | 1682.7 | 1450.5 | 487.8 | 156.0 | 144.0 | 151.8 | 153.6 | 144.3 | 133.1 | 127.5 | 126.5 |
| 60° | 1808.6 | 1504.7 | 433.5 | 143.2 | 133.6 | 143.6 | 149.9 | 143.4 | 134.0 | 133.5 | 132.7 |
| 62.5° | 1868.4 | 1500.0 | 351.9 | 133.1 | 127.1 | 140.1 | 152.6 | 148.8 | 143.7 | 148.1 | 148.5 |
| 65° | 1841.6 | 1428.3 | 262.1 | 126.4 | 122.5 | 141.4 | 160.7 | 159.2 | 146.5 | 150.9 | 151.5 |
| 67.5° | 1665.0 | 1257.3 | 194.1 | 120.6 | 117.4 | 145.2 | 175.3 | 162.6 | 141.0 | 144.2 | 142.3 |
| 70° | 1345.8 | 996.8 | 149.7 | 114.0 | 112.1 | 144.7 | 181.9 | 160.5 | 135.1 | 135.8 | 130.6 |
| 72.5° | 928.0 | 679.7 | 121.8 | 107.9 | 104.6 | 131.9 | 177.2 | 155.4 | 130.1 | 124.5 | 117.5 |
| 75° | 504.7 | 364.8 | 103.5 | 101.5 | 91.3 | 115.8 | 168.7 | 151.8 | 125.6 | 118.1 | 114.2 |
| 77.5° | 198.6 | 151.4 | 89.8 | 92.9 | 79.8 | 102.3 | 159.2 | 144.8 | 119.3 | 109.6 | 107.6 |
| 80° | 81.1 | 77.3 | 74.5 | 80.3 | 68.6 | 89.5 | 147.7 | 136.7 | 111.9 | 101.7 | 97.8 |
| 82.5° | 46.0 | 48.0 | 57.9 | 63.4 | 55.7 | 82.4 | 142.3 | 130.1 | 103.0 | 91.1 | 86.4 |
| 85° | 23.5 | 28.2 | 40.3 | 45.5 | 41.0 | 70.1 | 131.0 | 113.9 | 82.6 | 69.7 | 70.1 |
| 87.5° | 11.3 | 15.7 | 25.5 | 28.5 | 26.6 | 50.7 | 97.9 | 82.5 | 64.4 | 51.0 | 49.4 |
| 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)