

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: P522614

Luminaire Tested: **GLAN-SA1A-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873 lumens
Efficiency: N/A
Efficacy: 117.4 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

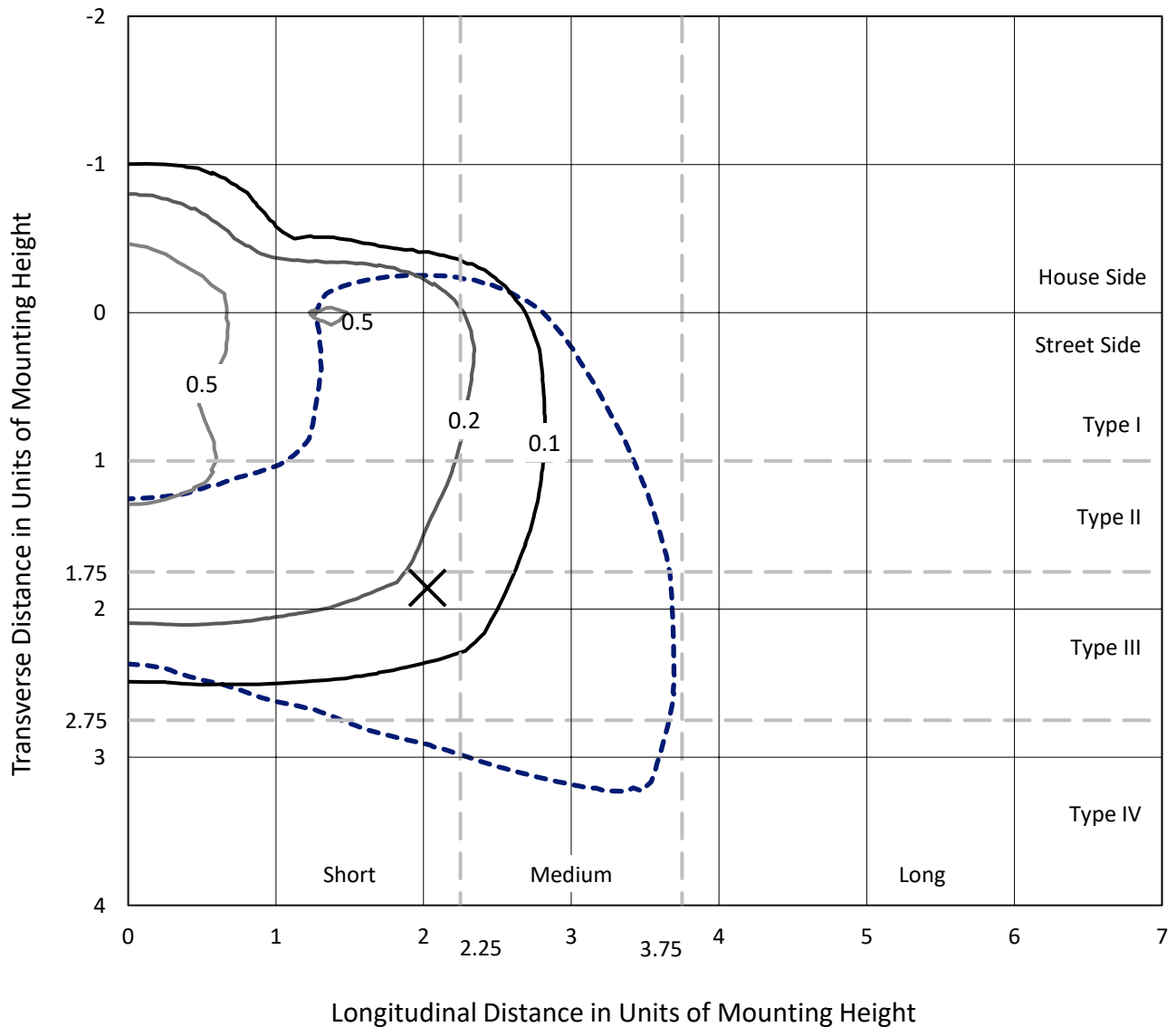
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

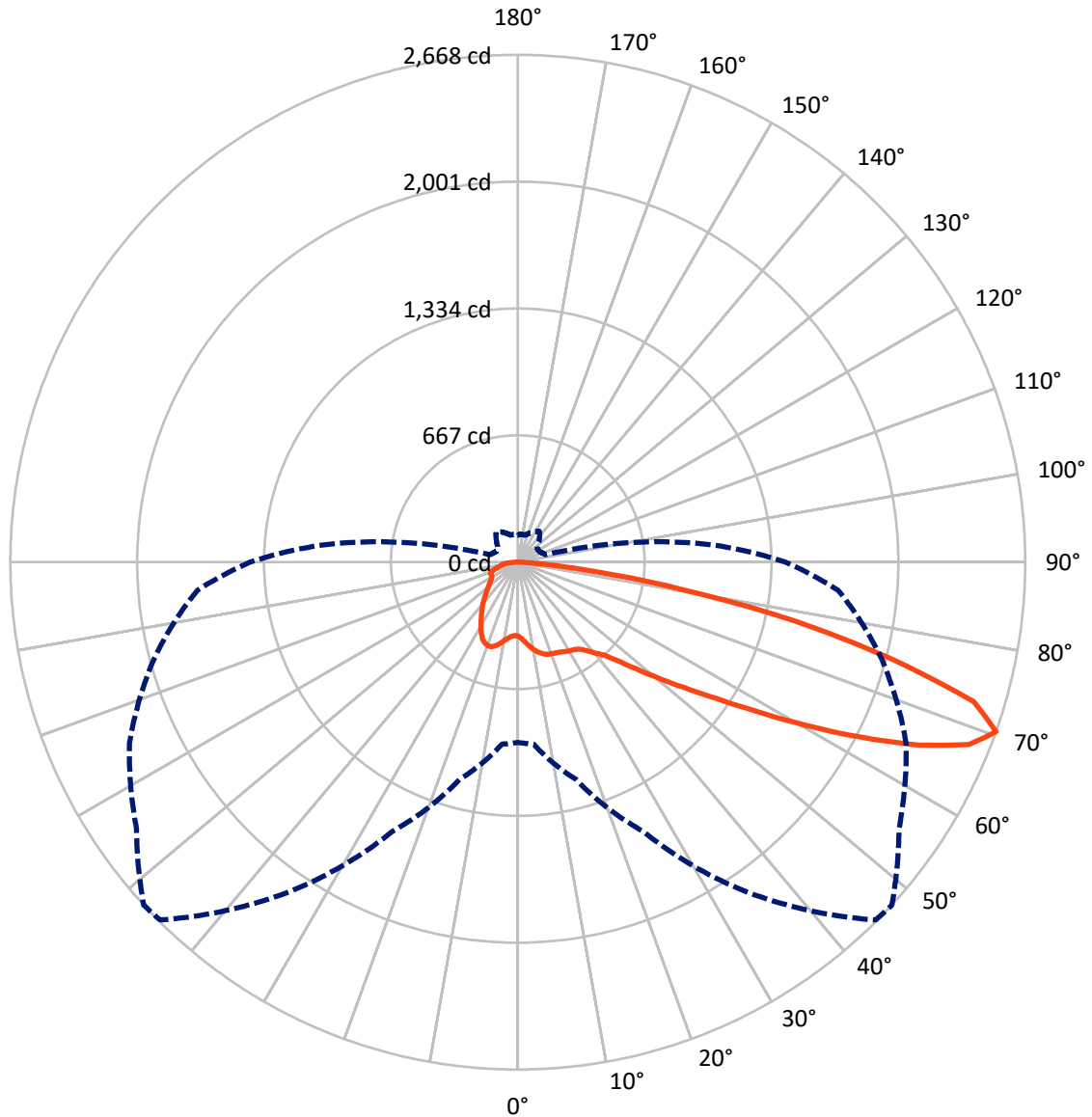
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 876.9 | 0.0 | 876.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 2996.1 | 0.0 | 2996.1 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 3873.0 | 0.0 | 3873.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.1 | 1.0 |
| 10°-20° | 134.0 | 3.5 |
| 20°-30° | 222.8 | 5.8 |
| 30°-40° | 315.8 | 8.2 |
| 40°-50° | 466.2 | 12.0 |
| 50°-60° | 807.5 | 20.8 |
| 60°-70° | 1140.6 | 29.4 |
| 70°-80° | 655.7 | 16.9 |
| 80°-90° | 90.5 | 2.3 |
| 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° | 3873.0 | 100.0 |
| 0°-180° | 3873.0 | 100.0 |



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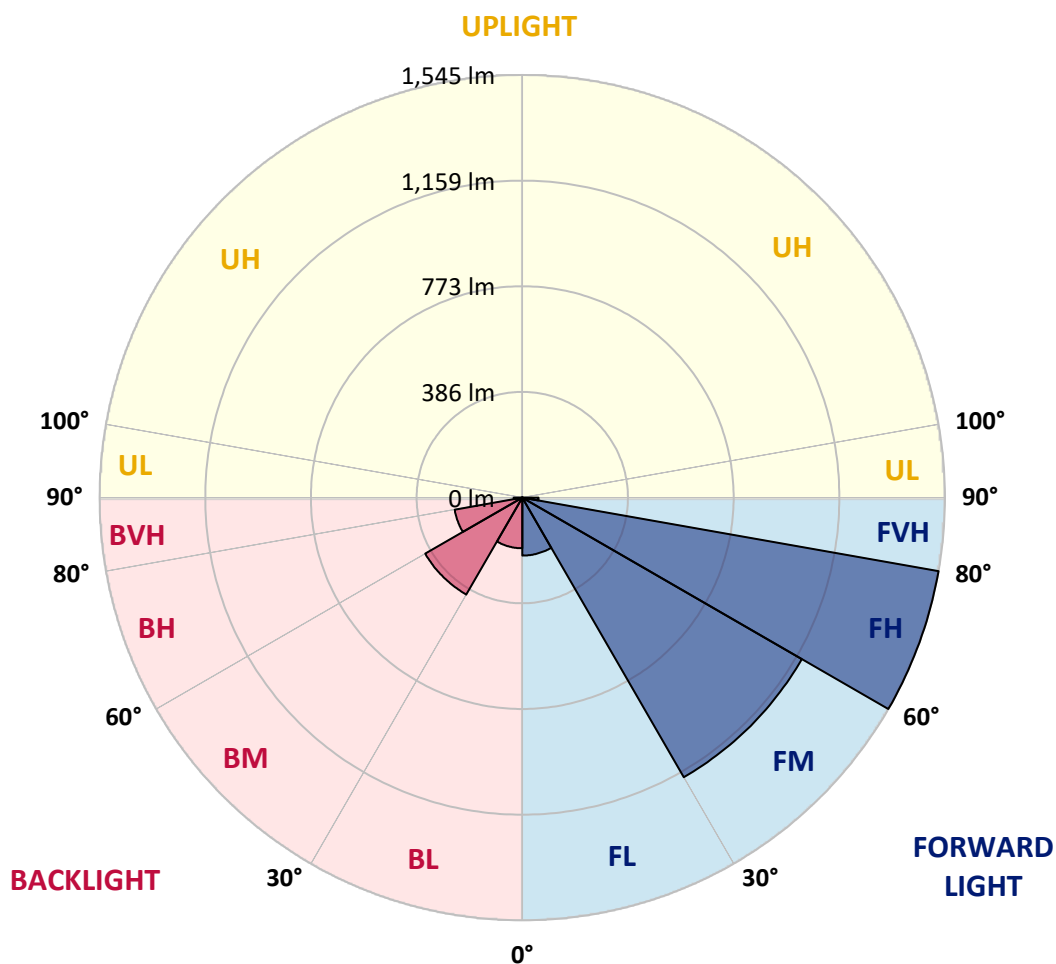
CATALOG NUMBER: GLAN-SA1A-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 211.8 | 5.5 | | | |
| FM | (30°-60°) | 1180.0 | 30.5 | | | |
| FH | (60°-80°) | 1545.2 | 39.9 | | | G1/1800 |
| FVH | (80°-90°) | 59.1 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 185.1 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 409.4 | 10.6 | B1/1000 | | |
| BH | (60°-80°) | 251.0 | 6.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 31.4 | 0.8 | | | 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° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 |
| 2.5° | 413.9 | 412.4 | 412.2 | 409.1 | 407.5 | 404.3 | 403.1 | 400.2 | 396.7 | 393.2 | 389.8 |
| 5° | 446.4 | 446.4 | 445.0 | 440.6 | 433.8 | 426.7 | 423.6 | 418.0 | 408.1 | 400.0 | 393.2 |
| 7.5° | 479.8 | 480.2 | 477.3 | 470.9 | 461.1 | 449.7 | 446.8 | 438.5 | 424.4 | 412.6 | 402.5 |
| 10° | 508.6 | 508.6 | 504.7 | 496.0 | 483.7 | 471.3 | 468.4 | 459.1 | 443.3 | 428.6 | 415.3 |
| 12.5° | 530.6 | 530.6 | 525.4 | 514.0 | 500.7 | 489.5 | 486.2 | 477.3 | 462.6 | 446.2 | 429.4 |
| 15° | 544.9 | 543.8 | 538.0 | 525.2 | 512.3 | 502.6 | 500.3 | 492.8 | 479.4 | 462.8 | 443.9 |
| 17.5° | 545.5 | 545.1 | 539.5 | 528.7 | 517.5 | 510.9 | 509.4 | 504.4 | 493.9 | 478.1 | 458.2 |
| 20° | 533.5 | 534.3 | 530.6 | 522.9 | 517.5 | 514.6 | 514.0 | 512.3 | 504.9 | 490.1 | 470.3 |
| 22.5° | 520.6 | 522.1 | 518.5 | 514.4 | 514.0 | 516.9 | 517.3 | 517.7 | 512.9 | 498.6 | 480.4 |
| 25° | 517.5 | 518.5 | 515.0 | 511.3 | 513.6 | 521.2 | 522.9 | 524.6 | 520.8 | 508.8 | 492.4 |
| 27.5° | 533.3 | 532.4 | 525.6 | 517.5 | 519.0 | 529.3 | 531.6 | 533.5 | 531.6 | 521.2 | 507.4 |
| 30° | 577.8 | 575.1 | 561.4 | 537.8 | 530.4 | 537.6 | 539.9 | 545.1 | 545.1 | 537.4 | 523.5 |
| 32.5° | 652.4 | 647.2 | 622.2 | 575.7 | 549.8 | 545.5 | 547.8 | 556.3 | 560.6 | 554.6 | 539.5 |
| 35° | 743.0 | 737.6 | 701.8 | 639.4 | 585.5 | 561.2 | 560.6 | 570.1 | 581.8 | 568.3 | 548.6 |
| 37.5° | 834.0 | 828.4 | 785.3 | 715.2 | 637.5 | 594.4 | 590.7 | 594.0 | 599.0 | 574.3 | 561.2 |
| 40° | 925.0 | 918.3 | 880.6 | 800.0 | 701.1 | 638.3 | 628.6 | 613.7 | 611.6 | 594.0 | 585.7 |
| 42.5° | 1015.1 | 1009.1 | 990.0 | 895.1 | 777.4 | 681.2 | 666.3 | 640.6 | 648.5 | 637.9 | 630.7 |
| 45° | 1106.1 | 1106.5 | 1086.2 | 1001.9 | 869.4 | 760.4 | 740.3 | 700.1 | 718.7 | 714.8 | 719.0 |
| 47.5° | 1186.7 | 1185.7 | 1178.4 | 1105.5 | 983.6 | 862.4 | 836.5 | 789.8 | 821.7 | 836.3 | 868.0 |
| 50° | 1264.9 | 1264.2 | 1264.6 | 1223.0 | 1116.3 | 983.6 | 955.0 | 906.1 | 978.0 | 1028.4 | 1085.2 |
| 52.5° | 1376.8 | 1380.3 | 1355.2 | 1344.2 | 1277.5 | 1126.8 | 1095.3 | 1044.8 | 1162.7 | 1242.1 | 1352.9 |
| 55° | 1489.1 | 1486.2 | 1466.5 | 1477.9 | 1446.2 | 1296.4 | 1263.4 | 1223.2 | 1368.3 | 1455.1 | 1621.7 |
| 57.5° | 1555.2 | 1556.2 | 1576.3 | 1632.1 | 1654.5 | 1507.7 | 1477.9 | 1446.8 | 1599.4 | 1660.9 | 1860.9 |
| 60° | 1614.7 | 1619.5 | 1677.3 | 1782.6 | 1843.3 | 1767.4 | 1740.9 | 1710.6 | 1811.4 | 1835.8 | 2068.6 |
| 62.5° | 1633.3 | 1648.1 | 1749.0 | 1906.5 | 2027.3 | 2060.5 | 2027.5 | 1960.8 | 2013.2 | 2003.7 | 2209.3 |
| 65° | 1540.3 | 1560.4 | 1741.3 | 1952.9 | 2191.7 | 2338.6 | 2317.7 | 2193.8 | 2185.3 | 2127.8 | 2232.3 |
| 67.5° | 1295.3 | 1315.4 | 1547.7 | 1855.5 | 2259.7 | 2579.4 | 2558.5 | 2363.7 | 2289.7 | 2139.5 | 2058.2 |
| 70° | 947.8 | 960.4 | 1182.6 | 1562.3 | 2123.1 | 2660.3 | 2667.5 | 2446.6 | 2252.4 | 1981.7 | 1689.9 |
| 72.5° | 546.1 | 574.1 | 729.7 | 1099.1 | 1734.5 | 2455.9 | 2506.3 | 2274.2 | 2016.6 | 1653.2 | 1181.5 |
| 75° | 234.8 | 235.4 | 337.4 | 606.2 | 1174.7 | 1974.1 | 2022.8 | 1885.2 | 1583.6 | 1143.2 | 630.9 |
| 77.5° | 111.7 | 113.8 | 148.4 | 270.7 | 646.6 | 1363.9 | 1495.3 | 1331.8 | 1012.8 | 549.2 | 238.3 |
| 80° | 72.5 | 74.0 | 90.8 | 134.3 | 317.1 | 790.9 | 882.5 | 768.3 | 446.8 | 196.3 | 102.8 |
| 82.5° | 43.9 | 44.4 | 60.7 | 82.1 | 174.5 | 358.1 | 422.2 | 333.5 | 190.7 | 117.5 | 60.5 |
| 85° | 26.7 | 26.9 | 36.9 | 50.8 | 105.9 | 123.7 | 127.0 | 126.0 | 111.9 | 76.9 | 32.3 |
| 87.5° | 12.8 | 13.3 | 19.1 | 24.0 | 41.7 | 38.3 | 36.3 | 42.1 | 52.8 | 41.5 | 13.9 |
| 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° | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 |
| 2.5° | 388.4 | 387.8 | 386.3 | 385.7 | 385.3 | 385.5 | 385.3 | 385.3 | 385.5 | 385.5 | 385.5 |
| 5° | 390.3 | 389.2 | 386.9 | 386.9 | 388.2 | 391.1 | 393.8 | 395.8 | 398.1 | 397.9 | 397.9 |
| 7.5° | 398.3 | 396.5 | 393.8 | 394.6 | 397.7 | 402.3 | 407.0 | 411.6 | 416.2 | 416.6 | 416.4 |
| 10° | 410.1 | 408.3 | 405.4 | 406.4 | 411.4 | 418.2 | 424.2 | 430.9 | 435.8 | 437.3 | 436.9 |
| 12.5° | 423.6 | 419.9 | 417.4 | 420.3 | 428.2 | 437.3 | 443.1 | 448.1 | 451.6 | 453.7 | 452.8 |
| 15° | 437.3 | 433.8 | 430.9 | 436.9 | 446.4 | 454.9 | 457.8 | 458.6 | 459.3 | 461.3 | 460.9 |
| 17.5° | 450.6 | 445.8 | 444.8 | 452.6 | 461.8 | 465.5 | 463.8 | 460.3 | 457.6 | 459.3 | 459.1 |
| 20° | 462.4 | 458.6 | 458.2 | 466.1 | 469.6 | 466.1 | 459.1 | 452.8 | 448.1 | 448.5 | 448.3 |
| 22.5° | 473.6 | 470.7 | 471.1 | 474.4 | 468.8 | 456.8 | 445.2 | 436.7 | 431.5 | 432.5 | 433.2 |
| 25° | 486.0 | 483.1 | 484.1 | 478.7 | 460.3 | 439.4 | 422.6 | 415.3 | 413.3 | 415.3 | 416.8 |
| 27.5° | 502.2 | 500.3 | 499.7 | 479.0 | 445.2 | 413.7 | 394.6 | 391.9 | 393.8 | 398.3 | 400.6 |
| 30° | 519.6 | 519.6 | 516.3 | 475.4 | 424.4 | 382.8 | 366.2 | 366.6 | 373.1 | 379.5 | 381.8 |
| 32.5° | 536.4 | 539.9 | 529.5 | 465.9 | 397.7 | 352.7 | 340.1 | 340.5 | 346.1 | 354.0 | 356.1 |
| 35° | 550.3 | 560.4 | 540.9 | 448.5 | 366.2 | 327.5 | 317.9 | 312.3 | 312.5 | 318.5 | 320.2 |
| 37.5° | 569.3 | 588.2 | 547.6 | 422.6 | 332.6 | 305.9 | 295.1 | 285.4 | 279.0 | 276.5 | 276.5 |
| 40° | 602.5 | 630.2 | 549.2 | 384.2 | 300.9 | 285.4 | 270.0 | 258.4 | 246.0 | 234.8 | 232.7 |
| 42.5° | 658.6 | 693.7 | 545.9 | 340.1 | 272.3 | 262.8 | 247.9 | 233.6 | 216.4 | 200.6 | 199.4 |
| 45° | 758.1 | 776.2 | 537.0 | 294.3 | 246.8 | 241.0 | 226.5 | 211.0 | 192.7 | 178.7 | 177.6 |
| 47.5° | 917.5 | 892.0 | 525.2 | 253.7 | 223.6 | 222.0 | 210.8 | 192.7 | 174.5 | 164.8 | 163.7 |
| 50° | 1150.2 | 1074.4 | 523.5 | 224.2 | 205.0 | 205.8 | 196.7 | 180.1 | 164.1 | 156.1 | 154.8 |
| 52.5° | 1430.4 | 1294.7 | 534.5 | 203.5 | 188.6 | 191.7 | 187.1 | 171.8 | 157.7 | 150.9 | 149.6 |
| 55° | 1702.4 | 1492.8 | 541.1 | 187.4 | 173.3 | 179.1 | 179.7 | 166.8 | 154.0 | 147.1 | 146.3 |
| 57.5° | 1923.1 | 1642.0 | 511.7 | 172.6 | 160.0 | 168.9 | 173.5 | 163.9 | 152.1 | 146.9 | 146.1 |
| 60° | 2076.7 | 1712.5 | 428.0 | 159.6 | 150.3 | 160.8 | 171.2 | 164.1 | 156.7 | 157.3 | 157.7 |
| 62.5° | 2125.6 | 1681.2 | 321.0 | 149.8 | 143.6 | 158.1 | 174.9 | 172.6 | 165.0 | 169.7 | 170.6 |
| 65° | 2044.5 | 1551.9 | 232.7 | 142.2 | 137.8 | 160.0 | 186.1 | 178.9 | 162.1 | 165.6 | 165.6 |
| 67.5° | 1773.2 | 1337.0 | 181.1 | 135.1 | 131.2 | 163.5 | 197.3 | 178.2 | 155.2 | 159.4 | 155.6 |
| 70° | 1406.6 | 1034.2 | 150.9 | 127.3 | 124.1 | 158.3 | 198.3 | 171.8 | 147.1 | 148.0 | 140.9 |
| 72.5° | 933.5 | 680.0 | 129.7 | 119.8 | 113.4 | 142.4 | 189.8 | 163.5 | 139.3 | 134.5 | 127.5 |
| 75° | 457.4 | 339.1 | 113.2 | 110.5 | 99.3 | 123.9 | 178.2 | 155.6 | 130.8 | 123.3 | 119.4 |
| 77.5° | 177.2 | 144.2 | 96.6 | 98.7 | 86.4 | 109.2 | 162.9 | 144.5 | 119.6 | 109.4 | 106.3 |
| 80° | 86.0 | 81.9 | 79.2 | 82.3 | 71.1 | 93.1 | 148.8 | 134.7 | 109.2 | 98.0 | 93.5 |
| 82.5° | 53.5 | 50.6 | 60.7 | 64.0 | 54.7 | 85.0 | 141.1 | 126.4 | 96.2 | 81.2 | 77.5 |
| 85° | 27.1 | 29.0 | 40.6 | 43.7 | 39.2 | 67.6 | 116.3 | 94.9 | 69.4 | 57.6 | 58.0 |
| 87.5° | 10.4 | 13.9 | 21.3 | 23.0 | 20.9 | 35.6 | 64.0 | 55.3 | 44.6 | 30.3 | 28.0 |
| 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)