

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: P526159

Luminaire Tested: **GLAN-SA1A-750-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-750-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2730 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

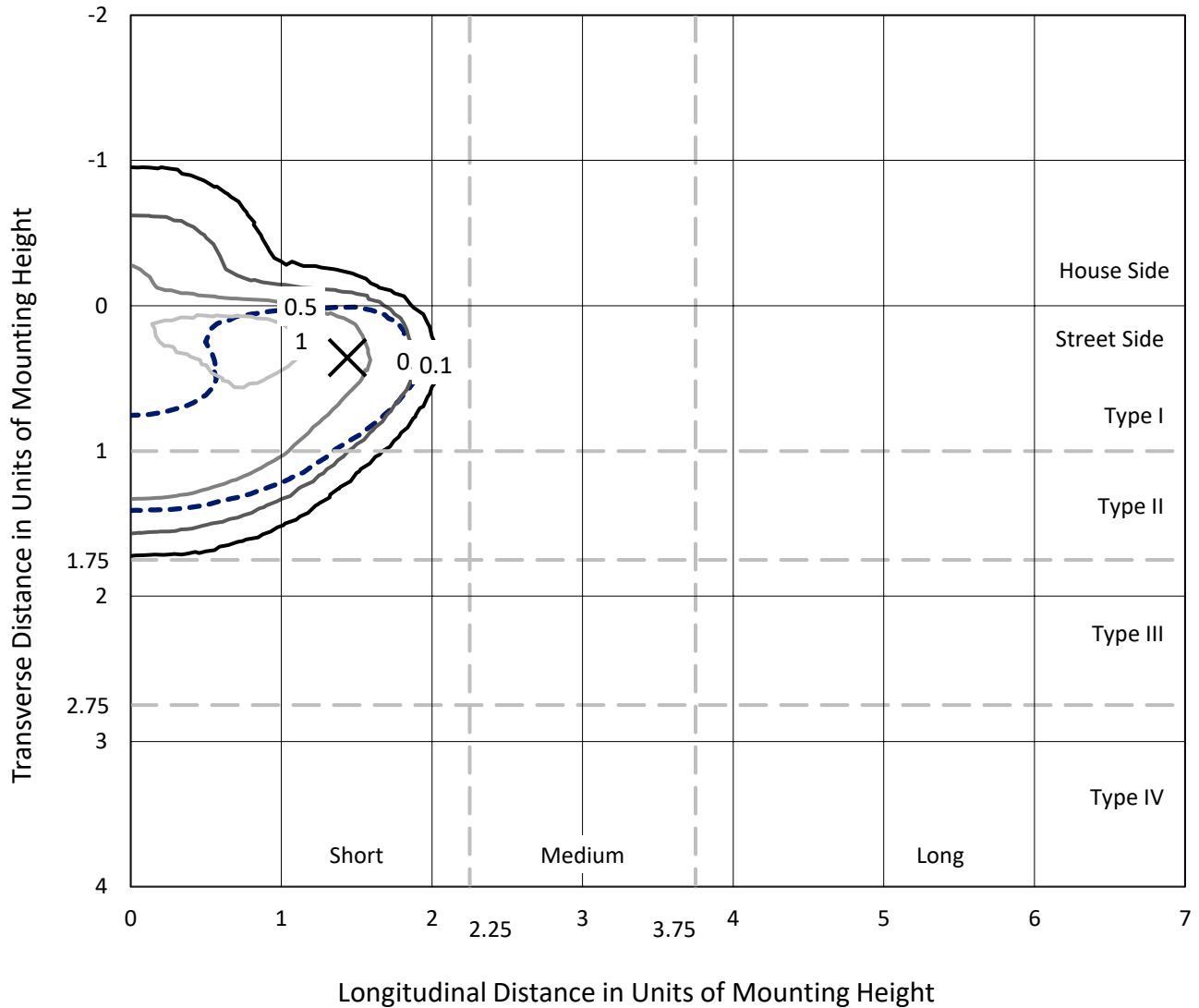
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

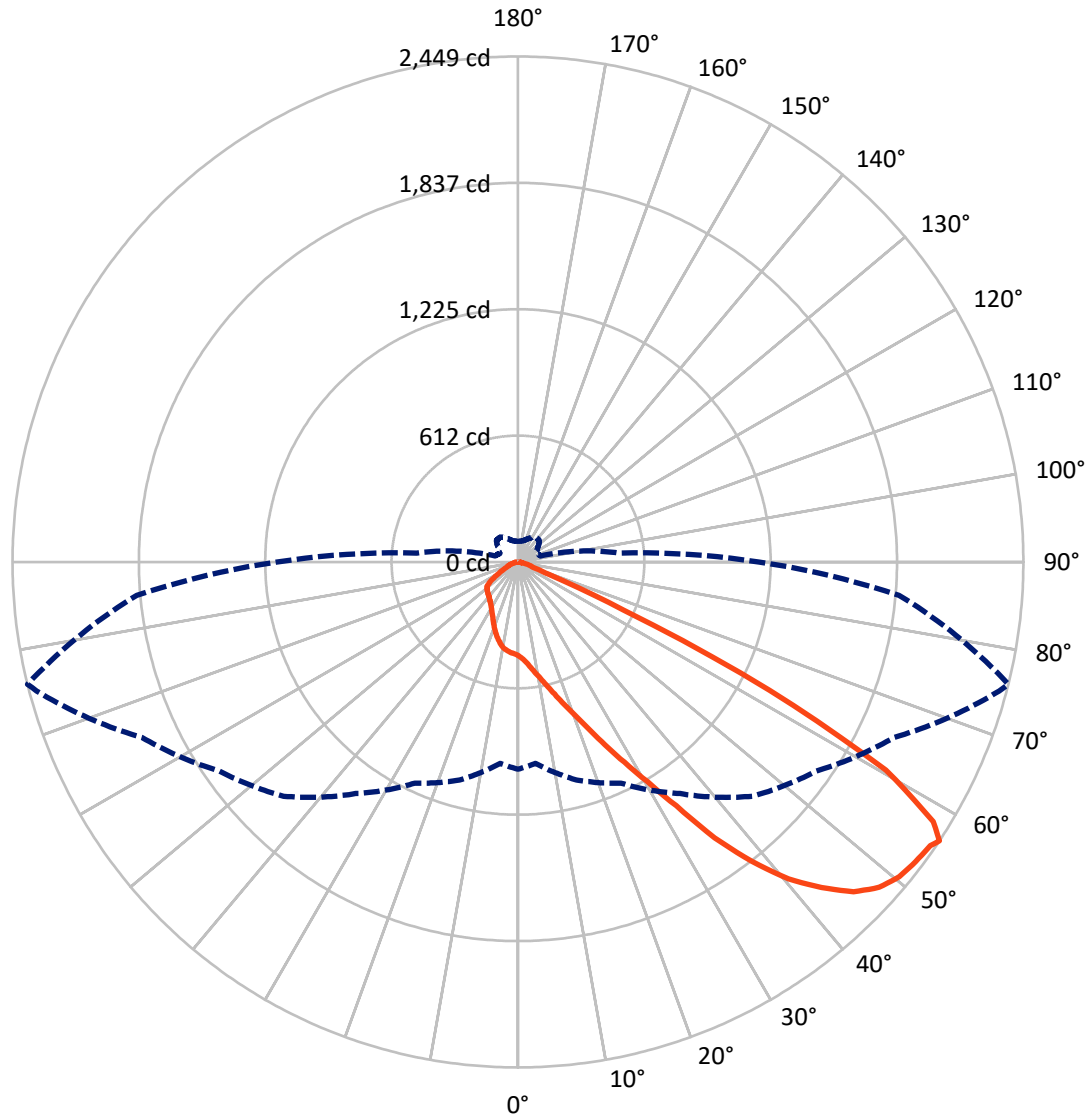
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 428.9 | 0.0 | 428.9 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 2301.1 | 0.0 | 2301.1 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 2730.0 | 0.0 | 2730.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.8 | 1.7 |
| 10°-20° | 147.1 | 5.4 |
| 20°-30° | 266.7 | 9.8 |
| 30°-40° | 459.9 | 16.8 |
| 40°-50° | 747.1 | 27.4 |
| 50°-60° | 787.4 | 28.8 |
| 60°-70° | 240.6 | 8.8 |
| 70°-80° | 30.8 | 1.1 |
| 80°-90° | 4.7 | 0.2 |
| 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° | 2730.0 | 100.0 |
| 0°-180° | 2730.0 | 100.0 |

Coefficient of Utilization

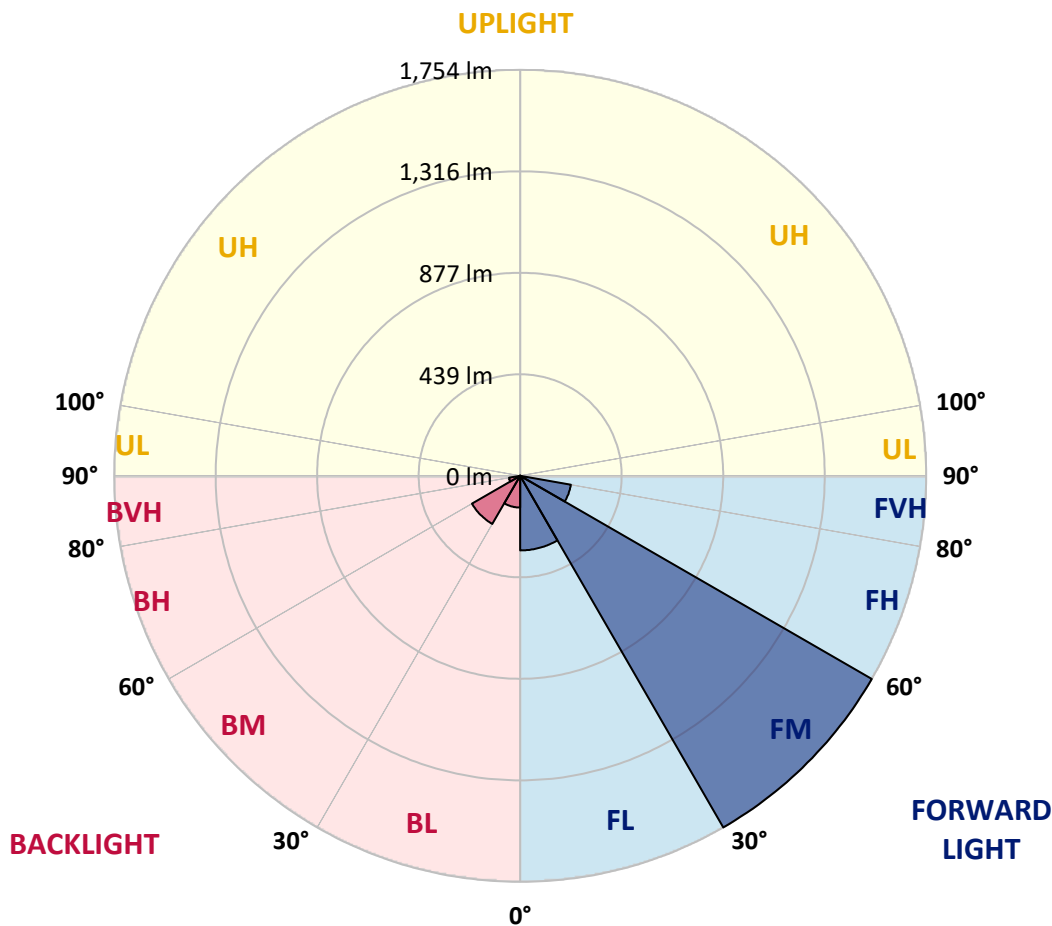


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 322.3 | 11.8 | | | |
| FM (30°-60°) | 1754.0 | 64.3 | | | |
| FH (60°-80°) | 222.5 | 8.2 | | | G0/660 |
| FVH (80°-90°) | 2.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 137.2 | 5.0 | B1/500 | | |
| BM (30°-60°) | 240.4 | 8.8 | B1/1000 | | |
| BH (60°-80°) | 48.9 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.4 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 |
| 2.5° | 523.4 | 511.3 | 511.8 | 510.8 | 509.3 | 503.7 | 487.1 | 484.6 | 473.5 | 470.5 | 460.5 |
| 5° | 586.3 | 575.7 | 581.7 | 572.7 | 564.1 | 559.1 | 531.9 | 519.3 | 501.7 | 495.2 | 481.1 |
| 7.5° | 625.5 | 620.5 | 618.5 | 619.0 | 610.9 | 598.3 | 586.3 | 558.6 | 534.9 | 529.9 | 500.2 |
| 10° | 644.6 | 641.6 | 644.6 | 643.1 | 646.6 | 648.2 | 627.0 | 610.4 | 575.7 | 567.1 | 520.8 |
| 12.5° | 649.2 | 655.2 | 657.7 | 664.3 | 672.8 | 687.4 | 685.9 | 663.3 | 617.0 | 611.4 | 552.5 |
| 15° | 660.2 | 665.3 | 662.7 | 673.3 | 689.4 | 714.1 | 727.2 | 723.6 | 673.8 | 663.8 | 589.3 |
| 17.5° | 670.3 | 661.2 | 669.8 | 690.9 | 707.0 | 744.8 | 776.5 | 791.1 | 735.7 | 724.1 | 623.0 |
| 20° | 683.9 | 681.4 | 679.9 | 690.4 | 719.1 | 769.4 | 832.3 | 859.0 | 805.2 | 793.1 | 671.3 |
| 22.5° | 725.1 | 725.7 | 724.6 | 709.0 | 729.7 | 786.5 | 881.1 | 947.1 | 888.2 | 878.1 | 726.2 |
| 25° | 779.5 | 773.0 | 767.9 | 755.3 | 752.8 | 802.1 | 930.5 | 1054.8 | 987.8 | 980.8 | 785.5 |
| 27.5° | 836.9 | 836.9 | 821.8 | 810.2 | 794.1 | 840.9 | 975.8 | 1159.4 | 1108.1 | 1098.5 | 837.4 |
| 30° | 899.3 | 902.8 | 900.8 | 876.1 | 866.1 | 883.2 | 1022.1 | 1293.3 | 1246.0 | 1233.9 | 922.9 |
| 32.5° | 991.4 | 983.8 | 992.4 | 971.7 | 942.0 | 957.1 | 1095.0 | 1413.1 | 1425.1 | 1408.0 | 1035.1 |
| 35° | 1113.1 | 1108.6 | 1103.1 | 1069.4 | 1034.1 | 1046.2 | 1198.2 | 1560.5 | 1650.1 | 1641.5 | 1148.4 |
| 37.5° | 1222.3 | 1219.8 | 1215.3 | 1192.1 | 1151.4 | 1166.0 | 1315.4 | 1714.0 | 1869.5 | 1841.3 | 1308.4 |
| 40° | 1337.1 | 1350.7 | 1336.1 | 1315.4 | 1278.2 | 1310.4 | 1453.3 | 1805.1 | 2054.2 | 2019.9 | 1430.7 |
| 42.5° | 1492.6 | 1482.0 | 1488.5 | 1450.8 | 1430.7 | 1465.9 | 1591.7 | 1896.2 | 2197.6 | 2156.8 | 1560.5 |
| 45° | 1658.1 | 1658.6 | 1641.0 | 1628.9 | 1576.6 | 1614.9 | 1676.7 | 1946.5 | 2311.8 | 2280.1 | 1658.6 |
| 47.5° | 1764.3 | 1763.8 | 1782.9 | 1802.1 | 1748.2 | 1710.5 | 1734.6 | 1994.3 | 2370.7 | 2356.1 | 1694.4 |
| 50° | 1747.7 | 1752.7 | 1777.4 | 1848.9 | 1877.0 | 1826.2 | 1789.0 | 1980.2 | 2397.4 | 2395.9 | 1725.1 |
| 52.5° | 1520.2 | 1536.9 | 1578.1 | 1681.3 | 1823.2 | 1886.1 | 1845.8 | 2006.4 | 2410.5 | 2413.0 | 1770.9 |
| 55° | 1157.4 | 1166.5 | 1245.0 | 1370.3 | 1527.3 | 1742.7 | 1823.2 | 2027.0 | 2420.5 | 2425.0 | 1826.2 |
| 56° | 1003.9 | 979.8 | 1093.0 | 1182.1 | 1369.8 | 1605.3 | 1765.8 | 2010.9 | 2414.5 | 2449.2 | 1853.9 |
| 57.5° | 757.9 | 741.8 | 833.3 | 944.6 | 1125.2 | 1373.8 | 1587.7 | 1934.9 | 2373.7 | 2373.2 | 1814.1 |
| 60° | 461.0 | 444.9 | 515.3 | 580.7 | 681.9 | 845.9 | 1072.9 | 1540.9 | 2006.9 | 2049.1 | 1468.9 |
| 62.5° | 274.3 | 284.3 | 353.8 | 393.5 | 426.2 | 443.3 | 555.1 | 915.9 | 1339.1 | 1369.3 | 911.3 |
| 65° | 182.7 | 186.2 | 238.5 | 303.9 | 318.5 | 253.6 | 225.9 | 370.9 | 580.7 | 562.1 | 375.9 |
| 67.5° | 112.7 | 120.8 | 160.0 | 228.5 | 253.1 | 185.2 | 107.2 | 138.4 | 160.0 | 160.0 | 108.7 |
| 70° | 68.4 | 72.5 | 106.7 | 155.5 | 173.6 | 119.3 | 78.0 | 78.0 | 77.0 | 75.5 | 64.9 |
| 72.5° | 32.7 | 35.2 | 54.3 | 80.0 | 81.5 | 62.9 | 60.4 | 65.9 | 64.4 | 63.9 | 53.8 |
| 75° | 14.1 | 15.1 | 19.1 | 25.2 | 28.7 | 26.7 | 36.7 | 47.3 | 48.8 | 47.3 | 38.7 |
| 77.5° | 4.5 | 5.0 | 7.0 | 9.1 | 9.6 | 11.6 | 15.6 | 19.6 | 22.6 | 21.1 | 19.1 |
| 80° | 0.5 | 1.0 | 2.0 | 4.5 | 7.0 | 9.1 | 11.6 | 13.1 | 14.6 | 14.6 | 13.6 |
| 82.5° | 0.5 | 0.5 | 2.0 | 4.0 | 6.5 | 8.6 | 11.1 | 12.6 | 14.6 | 15.1 | 14.1 |
| 85° | 0.0 | 0.5 | 1.5 | 3.5 | 5.5 | 5.5 | 5.0 | 5.0 | 3.5 | 3.5 | 3.5 |
| 87.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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° | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 |
| 2.5° | 458.4 | 457.4 | 443.8 | 435.3 | 430.8 | 421.7 | 416.2 | 412.1 | 409.1 | 405.6 | 406.1 |
| 5° | 464.5 | 461.0 | 438.3 | 422.7 | 404.1 | 394.0 | 385.5 | 378.4 | 373.9 | 372.9 | 370.9 |
| 7.5° | 481.6 | 463.0 | 428.7 | 400.6 | 376.9 | 366.9 | 359.3 | 354.8 | 356.8 | 352.3 | 355.8 |
| 10° | 494.7 | 467.0 | 417.2 | 376.4 | 352.8 | 345.2 | 341.2 | 344.7 | 349.7 | 347.7 | 345.2 |
| 12.5° | 510.8 | 471.0 | 398.6 | 353.3 | 331.1 | 325.6 | 332.6 | 339.2 | 349.2 | 353.3 | 348.2 |
| 15° | 528.9 | 475.5 | 374.9 | 326.6 | 312.5 | 317.0 | 329.1 | 340.7 | 350.7 | 355.8 | 358.8 |
| 17.5° | 551.0 | 474.0 | 351.8 | 305.5 | 294.9 | 308.0 | 322.6 | 333.1 | 348.2 | 355.8 | 353.8 |
| 20° | 571.7 | 469.0 | 326.1 | 284.3 | 284.8 | 296.9 | 309.0 | 326.1 | 334.1 | 344.2 | 340.7 |
| 22.5° | 591.3 | 459.9 | 299.4 | 269.7 | 269.7 | 288.3 | 294.4 | 305.5 | 312.5 | 317.5 | 317.0 |
| 25° | 619.0 | 442.8 | 277.3 | 255.6 | 261.7 | 273.8 | 278.8 | 282.3 | 279.3 | 283.3 | 283.8 |
| 27.5° | 638.6 | 425.2 | 259.2 | 243.1 | 254.1 | 263.2 | 261.7 | 259.7 | 252.6 | 247.1 | 250.6 |
| 30° | 659.7 | 404.6 | 243.6 | 234.5 | 240.5 | 248.6 | 242.6 | 236.5 | 225.4 | 216.4 | 216.9 |
| 32.5° | 689.9 | 395.0 | 230.0 | 224.4 | 232.5 | 233.5 | 227.0 | 217.9 | 206.8 | 198.3 | 197.8 |
| 35° | 746.3 | 389.0 | 218.4 | 217.9 | 219.4 | 219.9 | 213.4 | 202.3 | 197.8 | 190.7 | 193.2 |
| 37.5° | 802.6 | 386.0 | 210.3 | 208.3 | 207.8 | 208.3 | 200.8 | 190.2 | 198.8 | 198.3 | 199.3 |
| 40° | 874.6 | 399.6 | 198.8 | 196.3 | 196.8 | 196.8 | 187.2 | 184.2 | 199.3 | 200.8 | 201.3 |
| 42.5° | 947.6 | 416.7 | 191.2 | 183.2 | 185.2 | 185.2 | 180.2 | 176.6 | 187.2 | 177.1 | 175.6 |
| 45° | 1011.0 | 441.8 | 183.2 | 170.1 | 175.1 | 177.6 | 176.1 | 170.1 | 163.5 | 146.4 | 146.4 |
| 47.5° | 1031.6 | 464.0 | 173.6 | 157.5 | 161.5 | 172.6 | 168.1 | 155.5 | 143.9 | 129.8 | 128.8 |
| 50° | 1067.8 | 488.1 | 166.1 | 142.9 | 151.5 | 165.1 | 160.5 | 147.9 | 134.9 | 124.8 | 125.3 |
| 52.5° | 1105.1 | 515.8 | 152.0 | 125.8 | 136.4 | 159.0 | 159.0 | 144.9 | 124.8 | 117.8 | 116.7 |
| 55° | 1160.9 | 514.8 | 126.8 | 103.2 | 121.8 | 150.0 | 152.5 | 129.8 | 111.7 | 106.2 | 106.2 |
| 56° | 1169.0 | 491.7 | 114.2 | 96.6 | 115.2 | 147.4 | 147.9 | 125.8 | 106.7 | 100.6 | 100.6 |
| 57.5° | 1108.6 | 443.8 | 100.1 | 88.6 | 107.2 | 142.9 | 143.4 | 122.3 | 102.7 | 94.1 | 93.1 |
| 60° | 853.0 | 300.4 | 83.5 | 79.0 | 97.1 | 128.8 | 131.3 | 111.2 | 90.1 | 83.5 | 83.0 |
| 62.5° | 481.6 | 166.6 | 73.5 | 71.5 | 83.5 | 109.7 | 117.3 | 97.1 | 76.5 | 73.0 | 74.0 |
| 65° | 219.9 | 91.6 | 61.9 | 57.9 | 67.4 | 84.5 | 94.6 | 80.0 | 62.9 | 58.9 | 58.9 |
| 67.5° | 80.5 | 62.4 | 52.8 | 45.8 | 47.3 | 54.9 | 61.4 | 51.8 | 41.8 | 35.7 | 37.2 |
| 70° | 57.4 | 52.3 | 46.3 | 39.8 | 36.7 | 35.7 | 35.2 | 29.2 | 20.6 | 16.1 | 17.1 |
| 72.5° | 46.3 | 43.3 | 38.7 | 33.7 | 28.7 | 24.2 | 20.6 | 15.1 | 9.6 | 6.5 | 6.0 |
| 75° | 33.2 | 31.7 | 28.2 | 24.2 | 20.1 | 17.1 | 14.1 | 9.6 | 5.0 | 2.5 | 2.5 |
| 77.5° | 17.1 | 17.1 | 16.6 | 15.1 | 12.6 | 10.1 | 8.1 | 5.5 | 3.0 | 1.0 | 1.0 |
| 80° | 13.1 | 14.1 | 14.6 | 13.1 | 11.6 | 9.1 | 6.5 | 4.0 | 2.0 | 0.5 | 0.5 |
| 82.5° | 12.6 | 14.6 | 15.6 | 13.6 | 11.6 | 8.6 | 6.5 | 4.0 | 2.0 | 0.5 | 0.5 |
| 85° | 3.0 | 3.0 | 4.5 | 5.0 | 6.5 | 7.0 | 5.5 | 3.5 | 1.5 | 0.5 | 0.5 |
| 87.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 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)