

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: INVUE

Report Number: P673542

Luminaire Tested: **CCP-SA-1D-735-U-T4W-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673542
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-735-U-T4W-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T4W distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3968.5 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

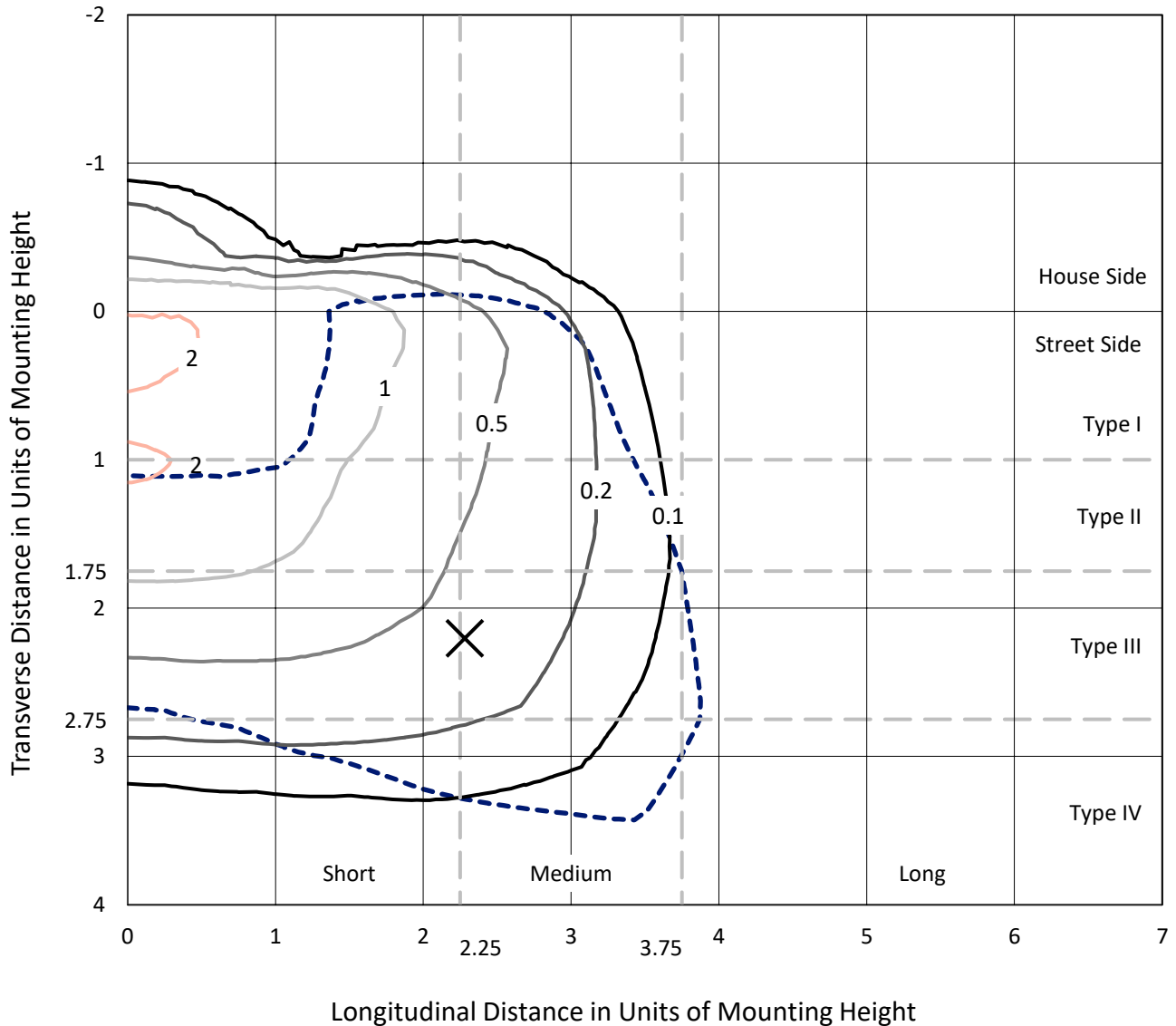
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

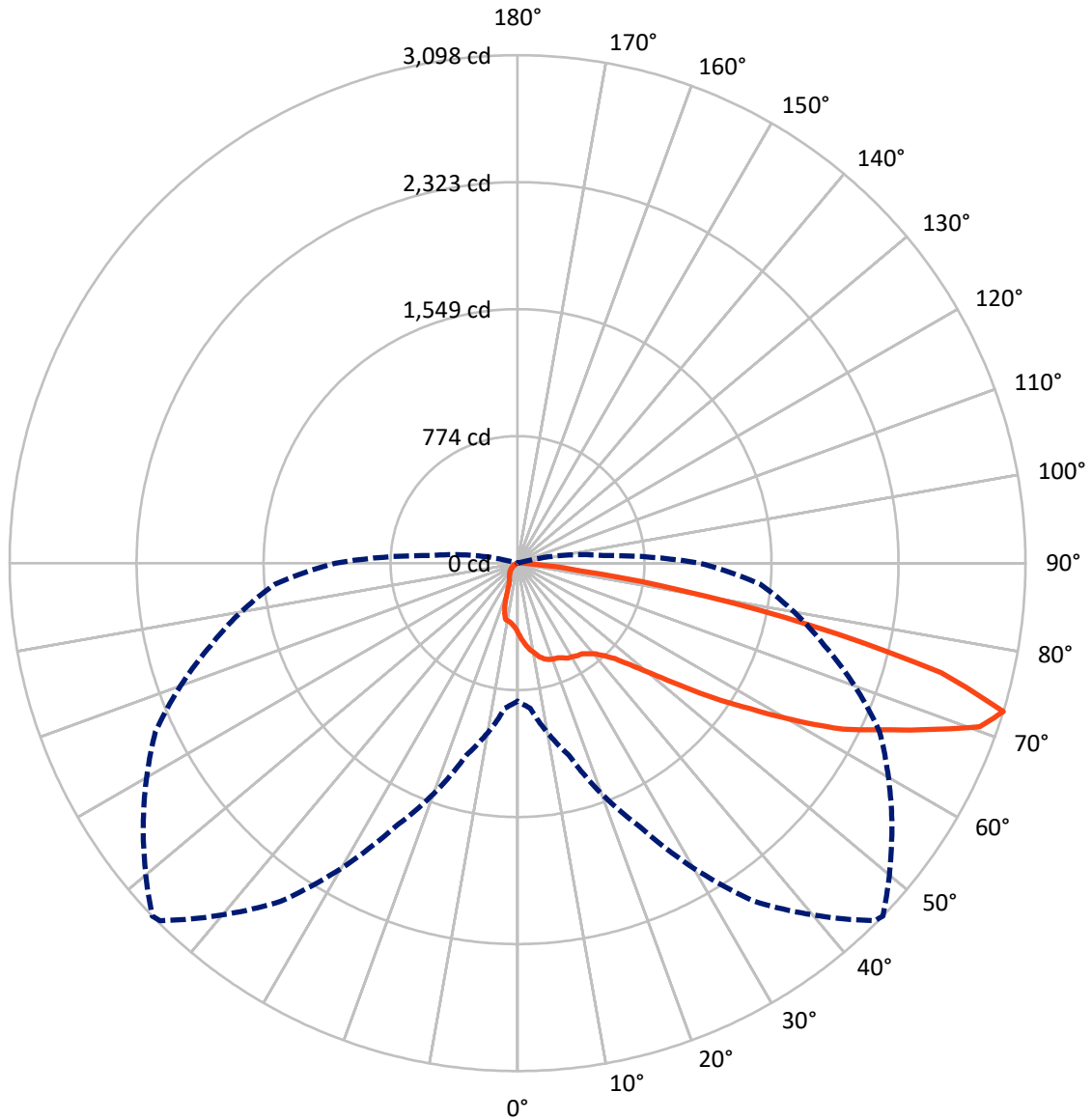
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 427.2 | 0.0 | 427.2 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 3541.2 | 0.0 | 3541.2 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 3968.5 | 0.0 | 3968.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.5 | 1.1 |
| 10°-20° | 128.2 | 3.2 |
| 20°-30° | 200.6 | 5.1 |
| 30°-40° | 281.0 | 7.1 |
| 40°-50° | 463.3 | 11.7 |
| 50°-60° | 832.8 | 21.0 |
| 60°-70° | 1207.1 | 30.4 |
| 70°-80° | 753.3 | 19.0 |
| 80°-90° | 59.7 | 1.5 |
| 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° | 3968.5 | 100.0 |
| 0°-180° | 3968.5 | 100.0 |



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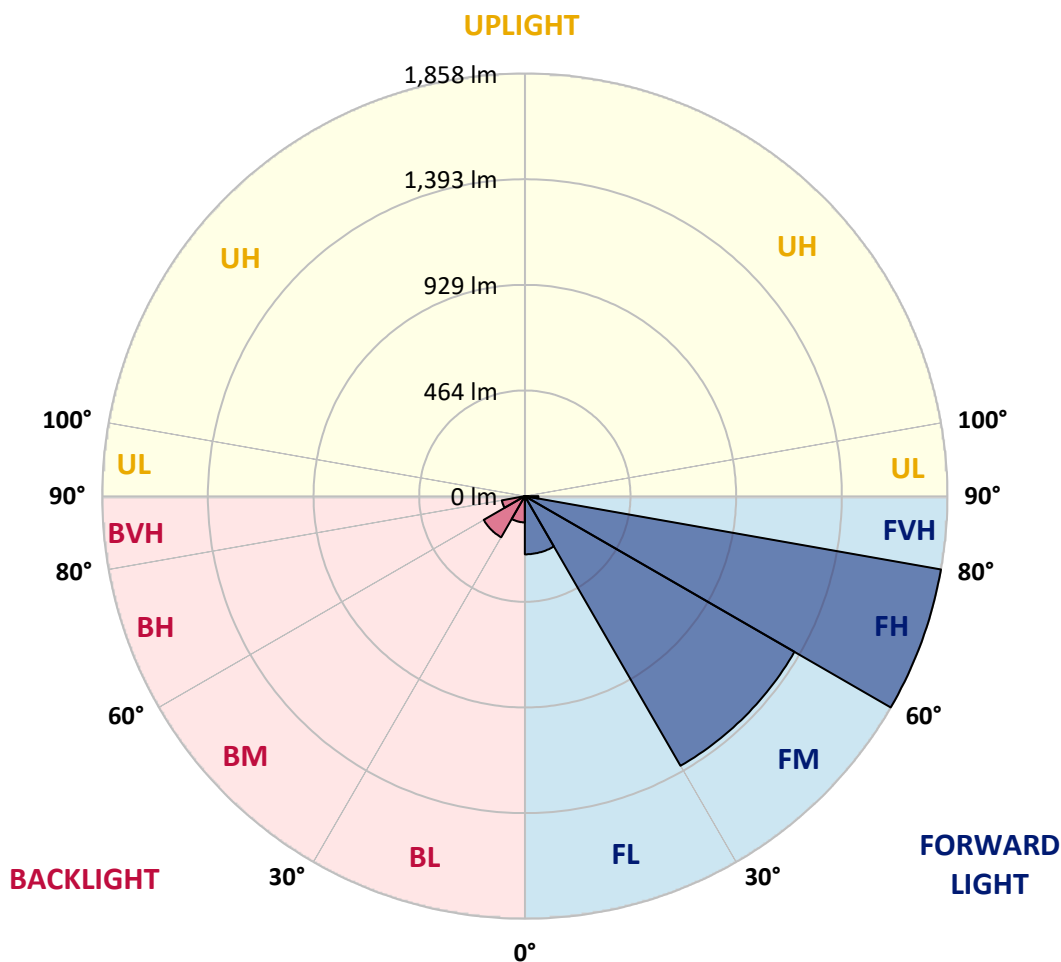
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 255.8 | 6.4 | | | |
| FM (30°-60°) | 1368.4 | 34.5 | | | |
| FH (60°-80°) | 1857.6 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 59.4 | 1.5 | | | G1/100 |
| BL (0°-30°) | 115.5 | 2.9 | B1/500 | | |
| BM (30°-60°) | 208.7 | 5.3 | B0/220 | | |
| BH (60°-80°) | 102.7 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |
| 2.5° | 474.7 | 472.7 | 475.8 | 474.7 | 462.6 | 464.6 | 463.6 | 455.5 | 441.3 | 433.2 | 428.2 |
| 5° | 529.4 | 534.5 | 530.4 | 521.3 | 514.2 | 500.1 | 498.0 | 484.9 | 462.6 | 448.4 | 433.2 |
| 7.5° | 586.1 | 586.1 | 578.0 | 563.8 | 548.6 | 533.5 | 531.4 | 509.2 | 489.9 | 465.6 | 444.4 |
| 10° | 628.6 | 623.5 | 617.5 | 602.3 | 585.1 | 564.8 | 554.7 | 538.5 | 517.3 | 487.9 | 460.6 |
| 12.5° | 666.1 | 658.0 | 647.8 | 625.6 | 605.3 | 583.1 | 585.1 | 558.8 | 544.6 | 518.3 | 477.8 |
| 15° | 687.3 | 680.2 | 671.1 | 650.9 | 619.5 | 609.4 | 605.3 | 589.1 | 563.8 | 537.5 | 499.0 |
| 17.5° | 692.4 | 687.3 | 675.2 | 648.9 | 631.6 | 619.5 | 618.5 | 599.3 | 588.1 | 565.9 | 523.3 |
| 20° | 682.3 | 673.2 | 664.0 | 646.8 | 630.6 | 626.6 | 623.5 | 623.5 | 609.4 | 580.0 | 538.5 |
| 22.5° | 665.1 | 654.9 | 649.9 | 639.7 | 626.6 | 625.6 | 627.6 | 625.6 | 614.4 | 595.2 | 554.7 |
| 25° | 651.9 | 646.8 | 638.7 | 635.7 | 627.6 | 642.8 | 639.7 | 636.7 | 633.7 | 611.4 | 580.0 |
| 27.5° | 655.9 | 654.9 | 648.9 | 636.7 | 630.6 | 646.8 | 655.9 | 657.0 | 655.9 | 633.7 | 603.3 |
| 30° | 658.0 | 652.9 | 646.8 | 643.8 | 645.8 | 662.0 | 662.0 | 684.3 | 675.2 | 652.9 | 626.6 |
| 32.5° | 681.2 | 678.2 | 658.0 | 650.9 | 651.9 | 671.1 | 672.1 | 694.4 | 691.4 | 676.2 | 646.8 |
| 35° | 730.8 | 710.6 | 681.2 | 661.0 | 661.0 | 686.3 | 678.2 | 710.6 | 718.7 | 694.4 | 661.0 |
| 37.5° | 804.7 | 789.6 | 736.9 | 691.4 | 674.2 | 692.4 | 700.5 | 718.7 | 743.0 | 721.7 | 689.3 |
| 40° | 951.5 | 948.5 | 873.6 | 775.4 | 707.6 | 723.8 | 726.8 | 755.1 | 771.3 | 742.0 | 732.9 |
| 42.5° | 1166.1 | 1150.9 | 1081.1 | 926.2 | 768.3 | 761.2 | 772.4 | 790.6 | 829.0 | 804.7 | 782.5 |
| 45° | 1375.7 | 1368.6 | 1298.7 | 1125.6 | 878.6 | 836.1 | 830.1 | 862.4 | 919.1 | 892.8 | 875.6 |
| 47.5° | 1527.5 | 1513.3 | 1473.8 | 1328.1 | 1040.6 | 924.2 | 928.2 | 960.6 | 1032.5 | 1012.3 | 1017.3 |
| 50° | 1643.9 | 1636.8 | 1595.3 | 1515.3 | 1245.1 | 1062.9 | 1054.8 | 1087.2 | 1184.3 | 1197.5 | 1211.7 |
| 52.5° | 1771.4 | 1784.6 | 1728.9 | 1661.1 | 1487.0 | 1249.1 | 1230.9 | 1242.0 | 1367.6 | 1397.9 | 1437.4 |
| 55° | 1893.9 | 1915.2 | 1859.5 | 1850.4 | 1740.1 | 1455.6 | 1452.6 | 1426.3 | 1588.2 | 1592.3 | 1613.5 |
| 57.5° | 1973.9 | 1966.8 | 1962.8 | 2012.4 | 1993.1 | 1692.5 | 1677.3 | 1651.0 | 1797.8 | 1771.4 | 1835.2 |
| 60° | 1980.0 | 2000.2 | 2068.0 | 2190.5 | 2224.9 | 1970.9 | 1948.6 | 1876.7 | 1979.0 | 1916.2 | 2037.7 |
| 62.5° | 2025.5 | 2041.7 | 2167.2 | 2336.3 | 2380.8 | 2215.8 | 2231.0 | 2048.8 | 2133.8 | 2084.2 | 2262.4 |
| 65° | 1910.1 | 1960.7 | 2212.8 | 2449.7 | 2585.3 | 2463.8 | 2448.6 | 2270.5 | 2292.8 | 2246.2 | 2484.1 |
| 67.5° | 1805.9 | 1825.1 | 2088.3 | 2484.1 | 2747.3 | 2712.8 | 2706.8 | 2466.9 | 2456.7 | 2370.7 | 2546.8 |
| 70° | 1467.8 | 1491.1 | 1751.2 | 2307.9 | 2801.9 | 3003.4 | 2989.2 | 2742.2 | 2568.1 | 2302.9 | 2224.9 |
| 72.5° | 841.2 | 887.7 | 1213.7 | 1777.5 | 2517.5 | 3084.3 | 3097.5 | 2786.7 | 2436.5 | 1936.4 | 1486.0 |
| 75° | 275.3 | 288.5 | 504.1 | 1007.2 | 1882.8 | 2690.6 | 2667.3 | 2395.0 | 1965.8 | 1278.5 | 671.1 |
| 77.5° | 93.1 | 95.2 | 148.8 | 364.4 | 1043.6 | 1818.0 | 1831.2 | 1711.7 | 1207.6 | 531.4 | 185.2 |
| 80° | 47.6 | 50.6 | 72.9 | 136.7 | 429.2 | 990.0 | 1011.2 | 975.8 | 506.1 | 156.9 | 44.5 |
| 82.5° | 22.3 | 23.3 | 42.5 | 75.9 | 196.4 | 388.7 | 388.7 | 427.2 | 179.2 | 88.1 | 18.2 |
| 85° | 8.1 | 8.1 | 22.3 | 43.5 | 83.0 | 129.6 | 130.6 | 131.6 | 94.1 | 65.8 | 8.1 |
| 87.5° | 3.0 | 3.0 | 11.1 | 18.2 | 30.4 | 39.5 | 39.5 | 31.4 | 47.6 | 43.5 | 3.0 |
| 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° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |
| 2.5° | 426.2 | 420.1 | 415.0 | 407.9 | 398.8 | 393.8 | 394.8 | 388.7 | 388.7 | 385.7 | 384.7 |
| 5° | 426.2 | 420.1 | 406.9 | 394.8 | 386.7 | 376.6 | 371.5 | 367.4 | 367.4 | 365.4 | 366.4 |
| 7.5° | 429.2 | 420.1 | 401.9 | 385.7 | 372.5 | 362.4 | 354.3 | 353.3 | 351.3 | 346.2 | 350.2 |
| 10° | 447.4 | 434.3 | 403.9 | 381.6 | 366.4 | 355.3 | 341.1 | 337.1 | 331.0 | 321.9 | 322.9 |
| 12.5° | 462.6 | 445.4 | 418.1 | 387.7 | 368.5 | 350.2 | 317.8 | 282.4 | 267.2 | 251.0 | 252.1 |
| 15° | 484.9 | 460.6 | 423.1 | 395.8 | 368.5 | 309.8 | 251.0 | 205.5 | 181.2 | 169.0 | 169.0 |
| 17.5° | 497.0 | 476.8 | 437.3 | 400.9 | 339.1 | 252.1 | 178.2 | 138.7 | 134.6 | 136.7 | 136.7 |
| 20° | 522.3 | 495.0 | 453.5 | 404.9 | 290.5 | 179.2 | 130.6 | 126.5 | 128.6 | 132.6 | 131.6 |
| 22.5° | 538.5 | 511.2 | 465.6 | 386.7 | 224.7 | 128.6 | 122.5 | 120.5 | 122.5 | 127.5 | 127.5 |
| 25° | 551.7 | 534.5 | 484.9 | 342.1 | 158.9 | 116.4 | 114.4 | 116.4 | 118.4 | 120.5 | 123.5 |
| 27.5° | 584.1 | 554.7 | 498.0 | 284.4 | 114.4 | 108.3 | 110.3 | 111.3 | 111.3 | 114.4 | 115.4 |
| 30° | 605.3 | 582.0 | 508.2 | 219.7 | 101.2 | 100.2 | 102.2 | 103.3 | 104.3 | 107.3 | 108.3 |
| 32.5° | 625.6 | 617.5 | 495.0 | 148.8 | 95.2 | 93.1 | 92.1 | 93.1 | 97.2 | 100.2 | 99.2 |
| 35° | 654.9 | 649.9 | 475.8 | 103.3 | 89.1 | 85.0 | 83.0 | 84.0 | 87.1 | 90.1 | 89.1 |
| 37.5° | 690.4 | 695.4 | 429.2 | 90.1 | 83.0 | 77.9 | 73.9 | 73.9 | 74.9 | 77.9 | 79.0 |
| 40° | 731.9 | 745.0 | 374.5 | 84.0 | 79.0 | 72.9 | 68.8 | 63.8 | 62.8 | 61.7 | 62.8 |
| 42.5° | 807.8 | 823.0 | 312.8 | 80.0 | 72.9 | 65.8 | 59.7 | 53.6 | 48.6 | 45.6 | 45.6 |
| 45° | 914.1 | 901.9 | 231.8 | 75.9 | 69.8 | 59.7 | 50.6 | 43.5 | 36.4 | 33.4 | 33.4 |
| 47.5° | 1060.8 | 1019.3 | 158.9 | 71.9 | 64.8 | 52.6 | 42.5 | 33.4 | 27.3 | 24.3 | 24.3 |
| 50° | 1264.3 | 1127.7 | 103.3 | 67.8 | 61.7 | 45.6 | 34.4 | 24.3 | 20.2 | 19.2 | 20.2 |
| 52.5° | 1456.6 | 1238.0 | 82.0 | 62.8 | 55.7 | 39.5 | 26.3 | 20.2 | 18.2 | 17.2 | 17.2 |
| 55° | 1633.8 | 1293.7 | 72.9 | 57.7 | 50.6 | 32.4 | 22.3 | 17.2 | 16.2 | 15.2 | 15.2 |
| 57.5° | 1783.6 | 1312.9 | 62.8 | 50.6 | 40.5 | 25.3 | 18.2 | 15.2 | 13.2 | 12.1 | 12.1 |
| 60° | 1913.2 | 1318.0 | 48.6 | 40.5 | 29.4 | 19.2 | 15.2 | 13.2 | 11.1 | 9.1 | 9.1 |
| 62.5° | 2016.4 | 1282.5 | 34.4 | 28.3 | 20.2 | 15.2 | 13.2 | 9.1 | 6.1 | 4.0 | 3.0 |
| 65° | 2098.4 | 1211.7 | 23.3 | 19.2 | 13.2 | 11.1 | 8.1 | 4.0 | 1.0 | 0.0 | 0.0 |
| 67.5° | 2002.2 | 1050.7 | 18.2 | 14.2 | 9.1 | 7.1 | 4.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1632.8 | 814.9 | 13.2 | 9.1 | 6.1 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1111.5 | 525.4 | 10.1 | 6.1 | 3.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 499.0 | 188.3 | 7.1 | 4.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 121.5 | 44.5 | 5.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 32.4 | 11.1 | 3.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 12.1 | 4.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)