

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: P675081

Luminaire Tested: **CCW-SA-1D-722-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675081
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-722-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4FT distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

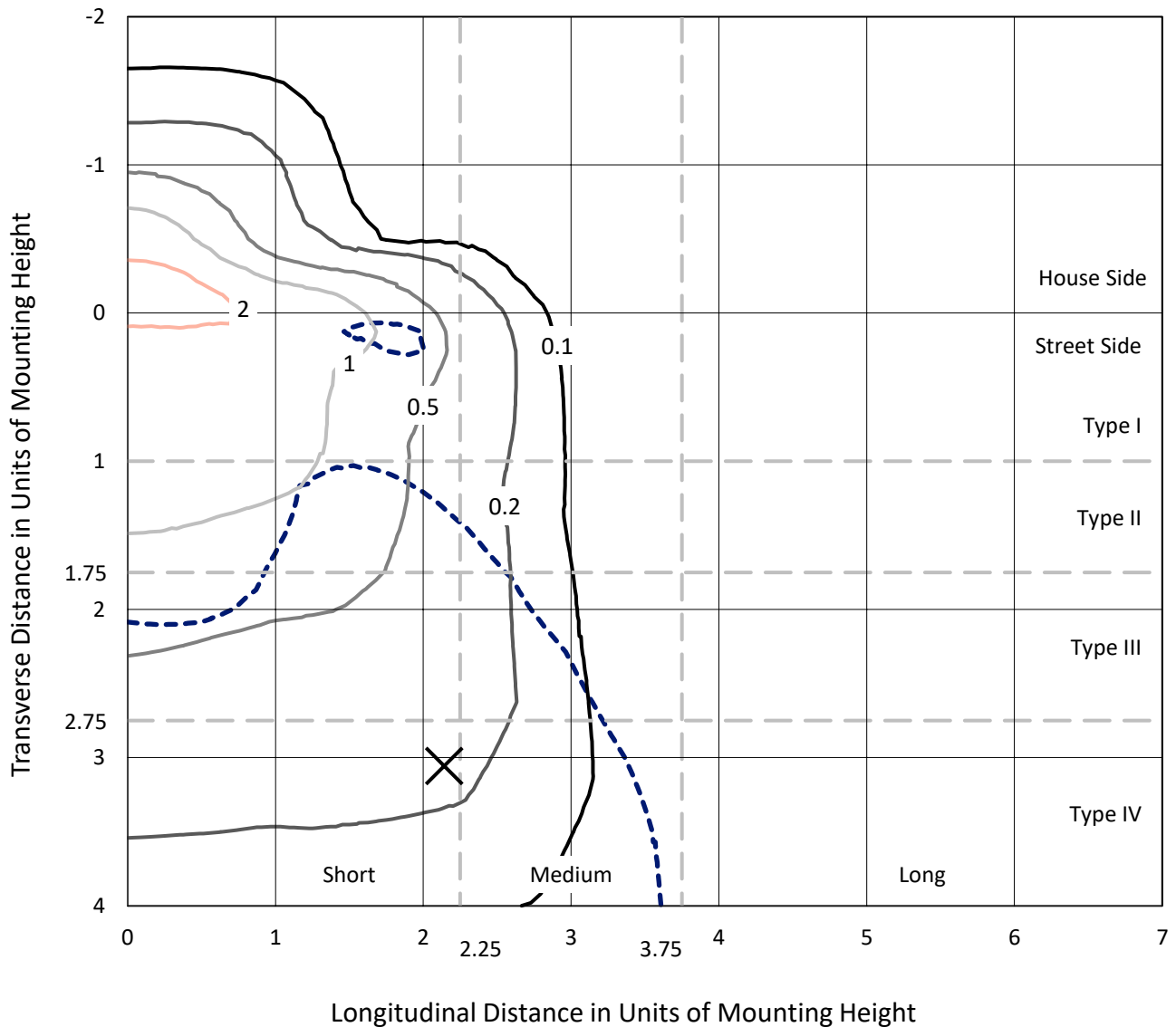
Lumens per Lamp: N/A
Luminaire Lumens: 4105.4 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

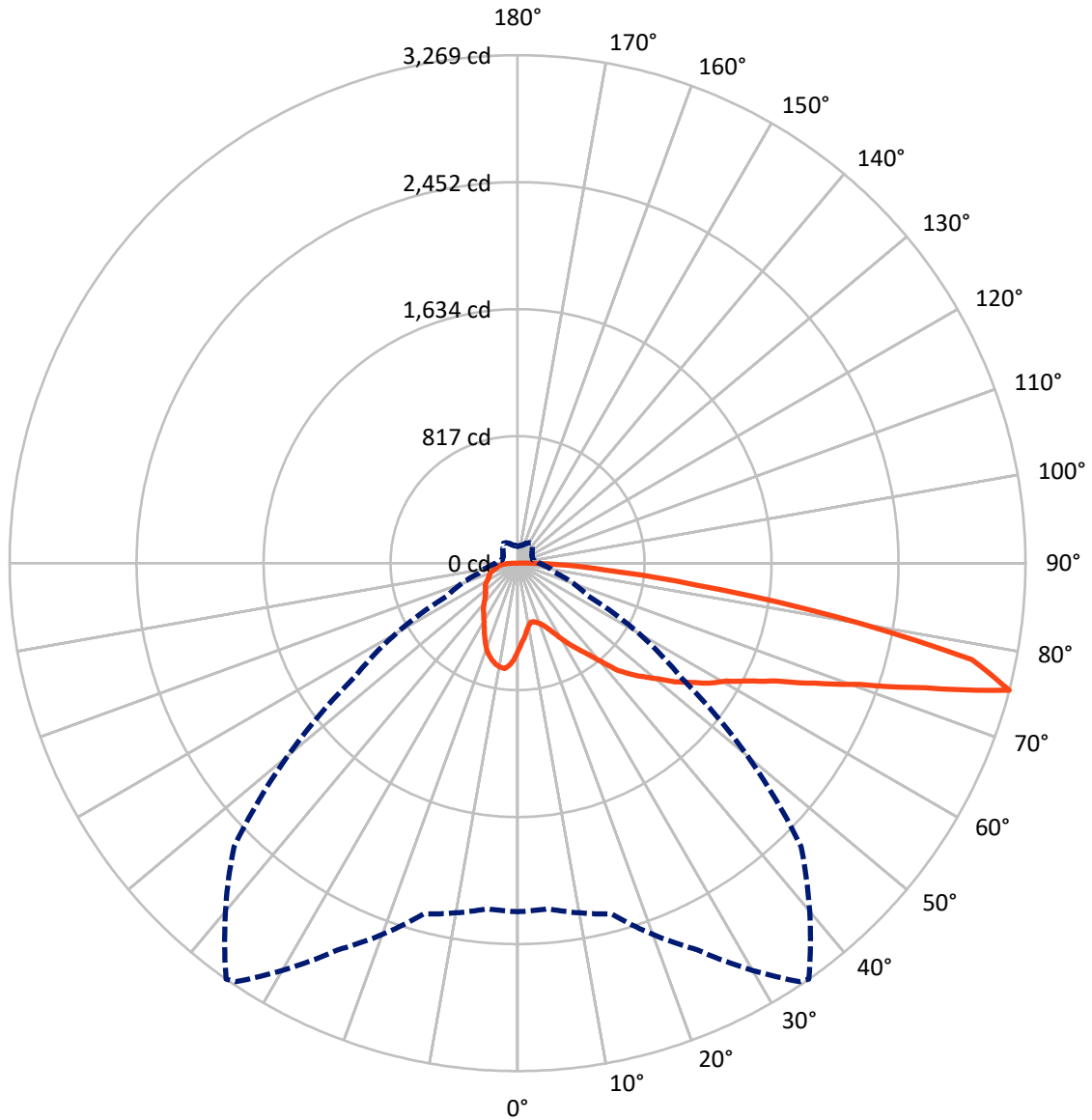
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 943.5 | 0.0 | 943.5 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 3161.9 | 0.0 | 3161.9 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 4105.4 | 0.0 | 4105.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.6 | 1.3 |
| 10°-20° | 155.5 | 3.8 |
| 20°-30° | 258.1 | 6.3 |
| 30°-40° | 382.6 | 9.3 |
| 40°-50° | 551.7 | 13.4 |
| 50°-60° | 758.6 | 18.5 |
| 60°-70° | 937.1 | 22.8 |
| 70°-80° | 857.3 | 20.9 |
| 80°-90° | 150.9 | 3.7 |
| 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° | 4105.4 | 100.0 |
| 0°-180° | 4105.4 | 100.0 |



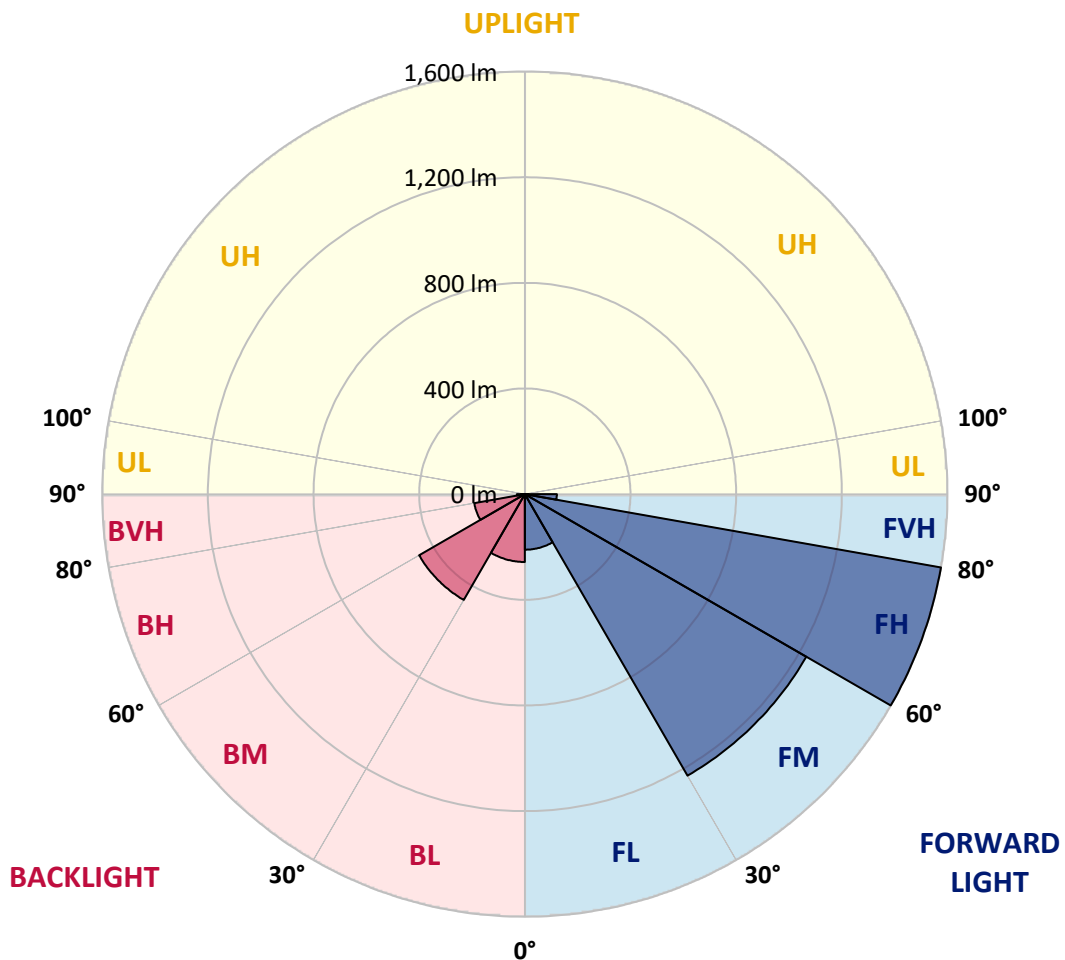
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 210.4 | 5.1 | | | |
| FM (30°-60°) | 1230.5 | 30.0 | | | |
| FH (60°-80°) | 1599.8 | 39.0 | | | G1/1800 |
| FVH (80°-90°) | 121.1 | 3.0 | | | G2/225 |
| BL (0°-30°) | 256.8 | 6.3 | B1/500 | | |
| BM (30°-60°) | 462.4 | 11.3 | B1/1000 | | |
| BH (60°-80°) | 194.6 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 29.8 | 0.7 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 |
| 2.5° | 509.5 | 505.0 | 509.5 | 512.6 | 512.6 | 512.6 | 517.1 | 530.7 | 539.8 | 545.8 | 556.4 |
| 5° | 456.6 | 458.1 | 461.2 | 468.7 | 473.3 | 476.3 | 483.8 | 500.5 | 514.1 | 533.7 | 556.4 |
| 7.5° | 409.8 | 412.8 | 417.3 | 424.9 | 435.5 | 433.9 | 450.6 | 473.3 | 499.0 | 524.7 | 557.9 |
| 10° | 385.6 | 391.6 | 393.1 | 394.6 | 405.2 | 405.2 | 427.9 | 453.6 | 485.4 | 518.6 | 557.9 |
| 12.5° | 390.1 | 390.1 | 385.6 | 384.0 | 390.1 | 388.6 | 408.2 | 438.5 | 473.3 | 520.1 | 564.0 |
| 15° | 403.7 | 403.7 | 394.6 | 385.6 | 394.6 | 391.6 | 408.2 | 432.4 | 473.3 | 521.6 | 576.1 |
| 17.5° | 421.8 | 423.4 | 412.8 | 397.7 | 400.7 | 402.2 | 414.3 | 437.0 | 473.3 | 524.7 | 592.7 |
| 20° | 458.1 | 450.6 | 433.9 | 409.8 | 420.3 | 415.8 | 433.9 | 453.6 | 482.3 | 536.8 | 616.9 |
| 22.5° | 489.9 | 489.9 | 458.1 | 437.0 | 438.5 | 438.5 | 455.1 | 471.7 | 495.9 | 553.4 | 635.0 |
| 25° | 541.3 | 538.3 | 499.0 | 467.2 | 470.2 | 471.7 | 480.8 | 500.5 | 518.6 | 562.5 | 657.7 |
| 27.5° | 606.3 | 598.8 | 559.4 | 523.2 | 511.1 | 515.6 | 520.1 | 535.2 | 539.8 | 577.6 | 684.9 |
| 30° | 675.9 | 665.3 | 632.0 | 574.6 | 568.5 | 570.0 | 562.5 | 571.5 | 565.5 | 601.8 | 712.2 |
| 32.5° | 719.7 | 719.7 | 688.0 | 645.6 | 629.0 | 629.0 | 603.3 | 609.3 | 609.3 | 624.5 | 760.5 |
| 35° | 757.5 | 754.5 | 733.3 | 701.6 | 691.0 | 684.9 | 659.2 | 668.3 | 653.2 | 668.3 | 828.6 |
| 37.5° | 815.0 | 805.9 | 796.8 | 775.7 | 754.5 | 750.0 | 736.3 | 742.4 | 721.2 | 713.7 | 905.7 |
| 40° | 881.5 | 877.0 | 867.9 | 858.8 | 837.6 | 836.1 | 821.0 | 827.1 | 804.4 | 775.7 | 982.8 |
| 42.5° | 979.8 | 966.2 | 937.4 | 929.9 | 934.4 | 940.5 | 934.4 | 923.8 | 883.0 | 846.7 | 1066.0 |
| 45° | 1078.1 | 1056.9 | 1002.5 | 990.4 | 1025.1 | 1020.6 | 1046.3 | 1041.8 | 975.2 | 917.8 | 1153.7 |
| 47.5° | 1141.6 | 1123.4 | 1079.6 | 1072.0 | 1087.1 | 1093.2 | 1170.3 | 1156.7 | 1050.8 | 982.8 | 1238.3 |
| 50° | 1186.9 | 1188.4 | 1131.0 | 1150.6 | 1170.3 | 1170.3 | 1267.1 | 1265.5 | 1143.1 | 1062.9 | 1348.7 |
| 52.5° | 1253.4 | 1232.3 | 1208.1 | 1226.2 | 1253.4 | 1268.6 | 1388.0 | 1354.8 | 1200.5 | 1131.0 | 1472.7 |
| 55° | 1288.2 | 1279.2 | 1258.0 | 1289.7 | 1347.2 | 1354.8 | 1481.8 | 1456.1 | 1265.5 | 1211.1 | 1599.7 |
| 57.5° | 1301.8 | 1309.4 | 1344.2 | 1357.8 | 1437.9 | 1457.6 | 1566.4 | 1530.1 | 1326.0 | 1310.9 | 1698.0 |
| 60° | 1362.3 | 1351.7 | 1398.6 | 1453.0 | 1530.1 | 1540.7 | 1672.3 | 1593.6 | 1385.0 | 1375.9 | 1729.7 |
| 62.5° | 1484.8 | 1457.6 | 1483.3 | 1548.3 | 1655.6 | 1669.2 | 1784.2 | 1678.3 | 1410.7 | 1419.8 | 1728.2 |
| 65° | 1663.2 | 1643.5 | 1605.7 | 1657.2 | 1808.4 | 1828.0 | 1915.7 | 1750.9 | 1403.1 | 1404.6 | 1605.7 |
| 67.5° | 1873.4 | 1841.6 | 1802.3 | 1834.1 | 2018.5 | 2063.9 | 2076.0 | 1782.6 | 1350.2 | 1320.0 | 1306.4 |
| 70° | 2057.8 | 2036.7 | 2011.0 | 2065.4 | 2322.4 | 2339.1 | 2275.6 | 1763.0 | 1203.6 | 1059.9 | 870.9 |
| 72.5° | 2230.2 | 2219.6 | 2234.7 | 2438.9 | 2733.7 | 2744.3 | 2463.0 | 1639.0 | 951.0 | 642.6 | 405.2 |
| 75° | 2243.8 | 2233.2 | 2337.6 | 2747.3 | 3249.3 | 3268.9 | 2579.5 | 1285.2 | 502.0 | 261.6 | 170.9 |
| 77.5° | 1519.6 | 1551.3 | 1746.4 | 2405.6 | 2984.7 | 2989.2 | 2109.2 | 597.2 | 207.1 | 154.2 | 119.4 |
| 80° | 373.5 | 414.3 | 657.7 | 1244.4 | 2012.5 | 2062.4 | 1155.2 | 201.1 | 136.1 | 117.9 | 89.2 |
| 82.5° | 136.1 | 148.2 | 267.6 | 562.5 | 1131.0 | 1150.6 | 403.7 | 108.9 | 98.3 | 90.7 | 65.0 |
| 85° | 65.0 | 66.5 | 127.0 | 276.7 | 571.5 | 565.5 | 145.2 | 65.0 | 71.1 | 62.0 | 39.3 |
| 87.5° | 27.2 | 27.2 | 55.9 | 128.5 | 252.5 | 244.9 | 46.9 | 30.2 | 40.8 | 36.3 | 19.7 |
| 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° | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 | 562.5 |
| 2.5° | 564.0 | 567.0 | 579.1 | 588.2 | 597.2 | 604.8 | 616.9 | 616.9 | 624.5 | 624.5 | 624.5 |
| 5° | 562.5 | 579.1 | 598.8 | 619.9 | 633.5 | 647.1 | 659.2 | 660.7 | 665.3 | 671.3 | 672.8 |
| 7.5° | 568.5 | 585.1 | 616.9 | 647.1 | 663.8 | 669.8 | 684.9 | 680.4 | 680.4 | 680.4 | 684.9 |
| 10° | 580.6 | 598.8 | 642.6 | 669.8 | 681.9 | 683.4 | 678.9 | 675.9 | 666.8 | 663.8 | 659.2 |
| 12.5° | 589.7 | 621.4 | 665.3 | 686.4 | 681.9 | 677.4 | 666.8 | 651.7 | 641.1 | 638.1 | 638.1 |
| 15° | 612.4 | 644.1 | 684.9 | 692.5 | 684.9 | 660.7 | 647.1 | 630.5 | 621.4 | 607.8 | 613.9 |
| 17.5° | 632.0 | 668.3 | 704.6 | 695.5 | 680.4 | 642.6 | 622.9 | 598.8 | 586.7 | 571.5 | 571.5 |
| 20° | 657.7 | 691.0 | 722.7 | 698.5 | 665.3 | 624.5 | 592.7 | 562.5 | 545.8 | 530.7 | 533.7 |
| 22.5° | 686.4 | 716.7 | 733.3 | 686.4 | 642.6 | 595.7 | 551.9 | 523.2 | 502.0 | 492.9 | 495.9 |
| 25° | 709.1 | 742.4 | 739.4 | 666.8 | 615.4 | 559.4 | 511.1 | 483.8 | 479.3 | 470.2 | 470.2 |
| 27.5° | 737.9 | 772.6 | 734.8 | 642.6 | 570.0 | 502.0 | 471.7 | 461.2 | 461.2 | 456.6 | 459.6 |
| 30° | 775.7 | 799.8 | 724.2 | 607.8 | 512.6 | 450.6 | 435.5 | 441.5 | 452.1 | 447.6 | 449.1 |
| 32.5° | 837.6 | 834.6 | 715.2 | 568.5 | 452.1 | 400.7 | 411.3 | 423.4 | 432.4 | 437.0 | 440.0 |
| 35° | 898.1 | 878.5 | 704.6 | 515.6 | 396.1 | 376.5 | 385.6 | 399.2 | 415.8 | 420.3 | 421.8 |
| 37.5° | 958.6 | 923.8 | 686.4 | 450.6 | 361.4 | 355.3 | 364.4 | 372.0 | 385.6 | 388.6 | 391.6 |
| 40° | 1022.1 | 954.1 | 654.7 | 387.1 | 332.6 | 332.6 | 338.7 | 340.2 | 347.8 | 352.3 | 355.3 |
| 42.5° | 1078.1 | 982.8 | 597.2 | 328.1 | 302.4 | 313.0 | 314.5 | 311.5 | 305.4 | 308.4 | 310.0 |
| 45° | 1146.1 | 1014.6 | 530.7 | 285.8 | 279.7 | 293.3 | 296.4 | 284.3 | 273.7 | 267.6 | 264.6 |
| 47.5° | 1212.6 | 1047.8 | 473.3 | 251.0 | 258.6 | 279.7 | 279.7 | 266.1 | 248.0 | 232.8 | 226.8 |
| 50° | 1273.1 | 1081.1 | 426.4 | 229.8 | 237.4 | 269.1 | 272.2 | 246.5 | 226.8 | 208.7 | 205.6 |
| 52.5° | 1374.4 | 1137.0 | 378.0 | 213.2 | 225.3 | 261.6 | 260.1 | 237.4 | 211.7 | 192.0 | 190.5 |
| 55° | 1463.6 | 1193.0 | 314.5 | 196.6 | 213.2 | 251.0 | 255.5 | 228.3 | 193.5 | 175.4 | 172.4 |
| 57.5° | 1528.6 | 1206.6 | 251.0 | 179.9 | 201.1 | 238.9 | 244.9 | 210.2 | 181.4 | 166.3 | 164.8 |
| 60° | 1540.7 | 1153.7 | 204.1 | 166.3 | 184.5 | 222.3 | 226.8 | 199.6 | 172.4 | 160.3 | 157.2 |
| 62.5° | 1484.8 | 1052.4 | 173.9 | 154.2 | 170.9 | 205.6 | 214.7 | 187.5 | 163.3 | 152.7 | 151.2 |
| 65° | 1357.8 | 904.2 | 152.7 | 143.6 | 161.8 | 193.5 | 204.1 | 178.4 | 155.7 | 146.7 | 145.2 |
| 67.5° | 1075.0 | 694.0 | 136.1 | 136.1 | 149.7 | 181.4 | 196.6 | 172.4 | 148.2 | 142.1 | 140.6 |
| 70° | 703.1 | 417.3 | 124.0 | 125.5 | 140.6 | 170.9 | 187.5 | 164.8 | 139.1 | 137.6 | 134.6 |
| 72.5° | 302.4 | 192.0 | 110.4 | 114.9 | 127.0 | 152.7 | 173.9 | 154.2 | 128.5 | 124.0 | 119.4 |
| 75° | 139.1 | 116.4 | 99.8 | 102.8 | 113.4 | 134.6 | 157.2 | 142.1 | 119.4 | 111.9 | 107.4 |
| 77.5° | 98.3 | 84.7 | 83.2 | 89.2 | 96.8 | 116.4 | 139.1 | 133.1 | 110.4 | 104.3 | 101.3 |
| 80° | 72.6 | 65.0 | 69.6 | 75.6 | 80.1 | 107.4 | 131.5 | 122.5 | 101.3 | 92.2 | 87.7 |
| 82.5° | 51.4 | 48.4 | 54.4 | 60.5 | 65.0 | 93.7 | 121.0 | 107.4 | 84.7 | 77.1 | 69.6 |
| 85° | 30.2 | 31.8 | 37.8 | 40.8 | 45.4 | 69.6 | 101.3 | 86.2 | 65.0 | 49.9 | 48.4 |
| 87.5° | 13.6 | 13.6 | 18.1 | 19.7 | 22.7 | 40.8 | 68.0 | 54.4 | 40.8 | 31.8 | 30.2 |
| 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)