

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: P673407

Luminaire Tested: **CCP-SA-1B-740-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673407
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-740-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4FT distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

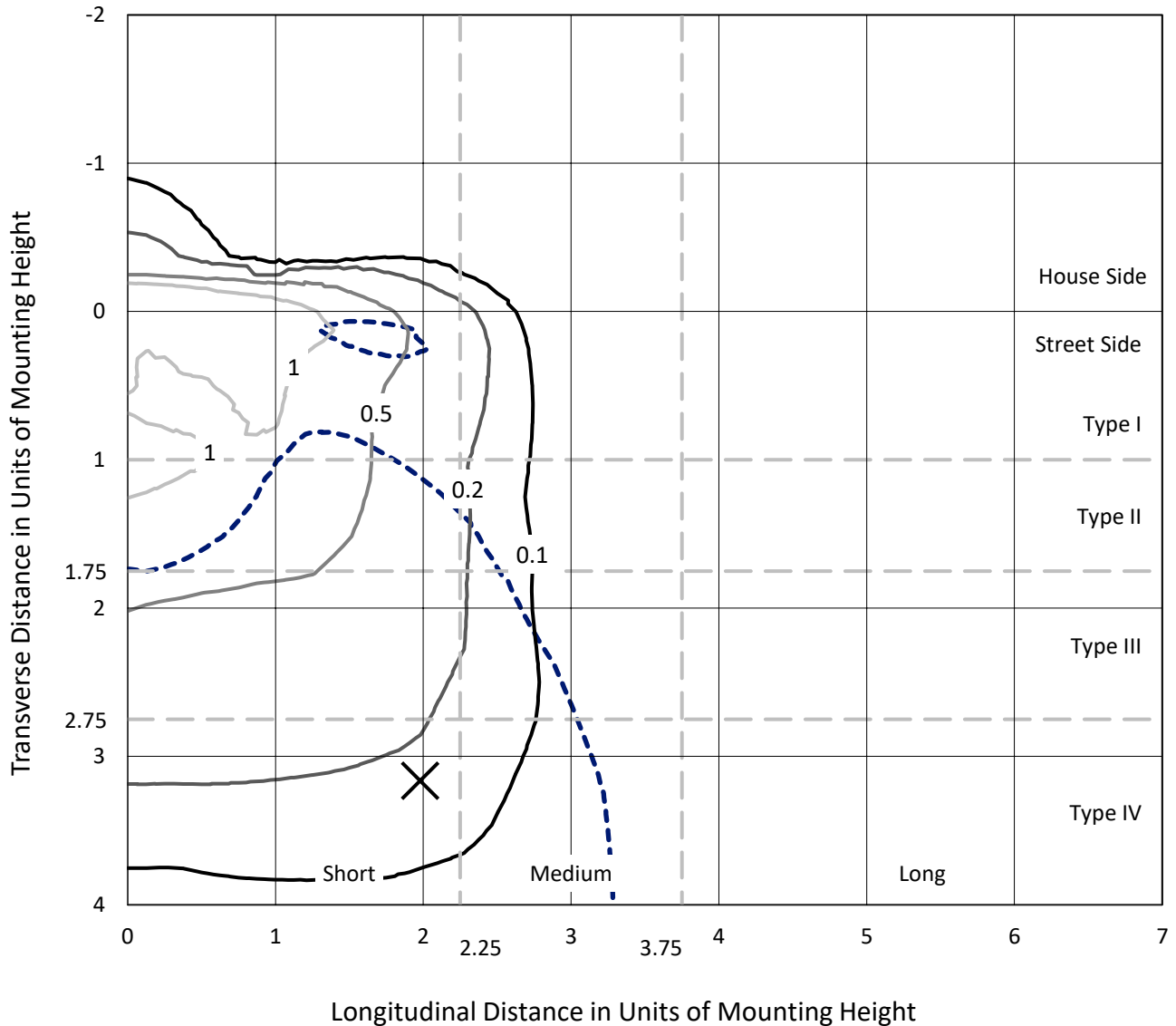
Lumens per Lamp: N/A
Luminaire Lumens: 2479.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

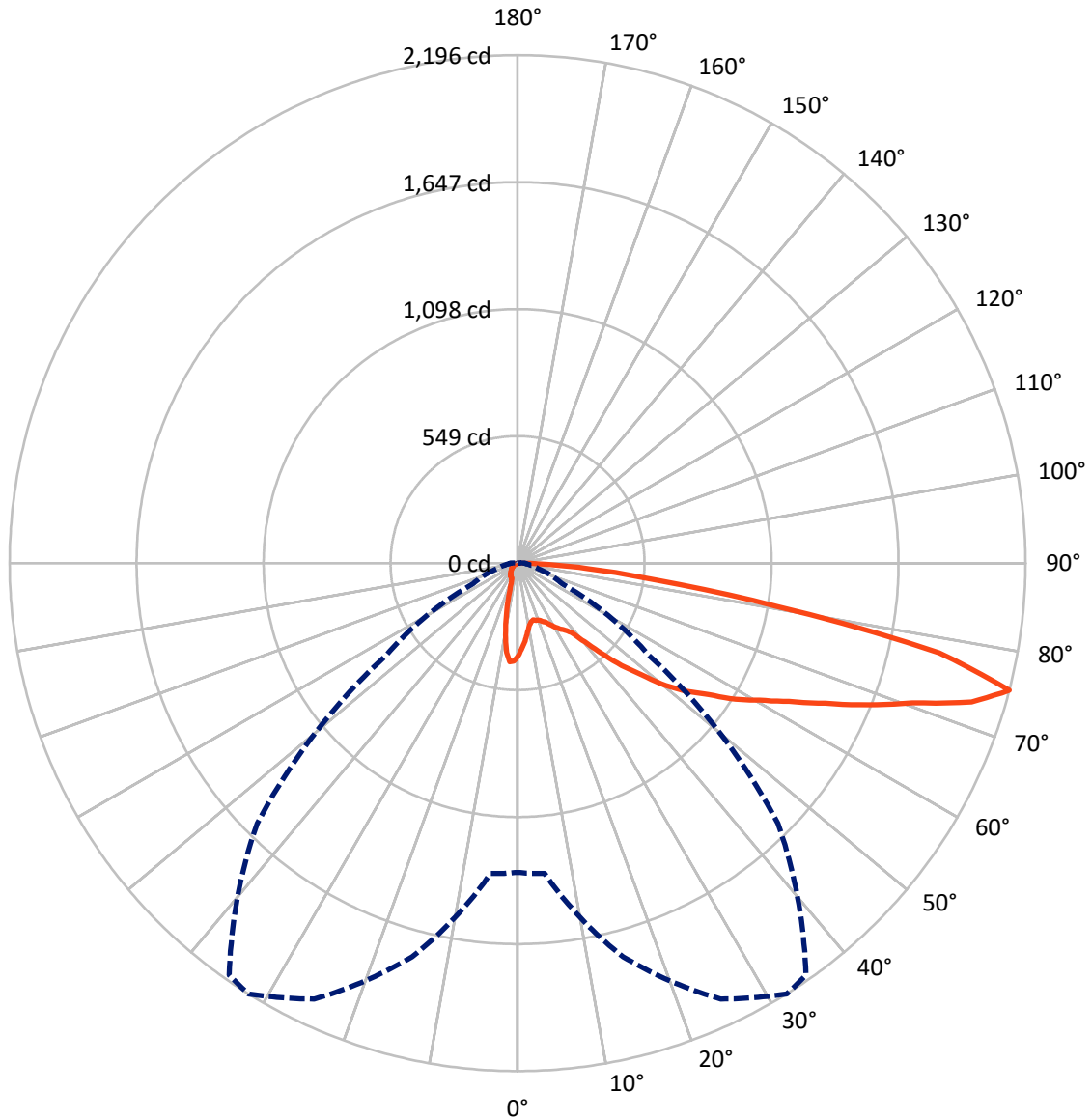
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 267.9 | 0.0 | 267.9 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 2211.9 | 0.0 | 2211.9 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 2479.8 | 0.0 | 2479.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.2 | 1.4 |
| 10°-20° | 79.9 | 3.2 |
| 20°-30° | 119.6 | 4.8 |
| 30°-40° | 183.6 | 7.4 |
| 40°-50° | 321.1 | 12.9 |
| 50°-60° | 501.9 | 20.2 |
| 60°-70° | 648.9 | 26.2 |
| 70°-80° | 528.5 | 21.3 |
| 80°-90° | 61.2 | 2.5 |
| 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° | 2479.8 | 100.0 |
| 0°-180° | 2479.8 | 100.0 |



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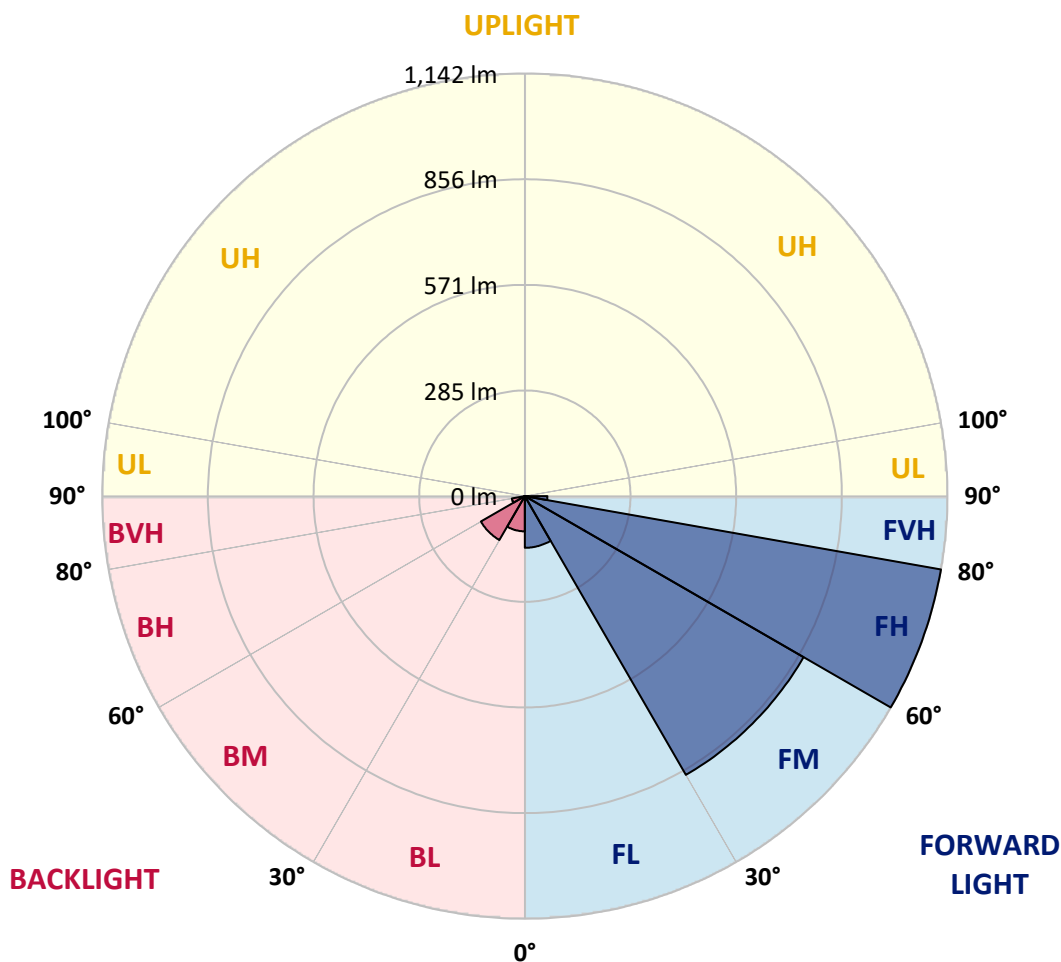
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 139.5 | 5.6 | | | |
| FM (30°-60°) | 869.5 | 35.1 | | | |
| FH (60°-80°) | 1141.7 | 46.0 | | | G1/1800 |
| FVH (80°-90°) | 61.1 | 2.5 | | | G1/100 |
| BL (0°-30°) | 95.2 | 3.8 | B0/110 | | |
| BM (30°-60°) | 137.1 | 5.5 | B0/220 | | |
| BH (60°-80°) | 35.6 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0° | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 |
| 2.5° | 359.1 | 364.2 | 363.6 | 366.7 | 367.4 | 369.3 | 373.7 | 373.7 | 386.4 | 395.3 | 401.1 |
| 5° | 326.7 | 323.5 | 324.8 | 328.6 | 338.1 | 337.5 | 348.3 | 354.0 | 369.3 | 382.0 | 395.3 |
| 7.5° | 286.6 | 286.0 | 288.6 | 297.5 | 304.4 | 310.2 | 321.6 | 336.2 | 356.6 | 375.6 | 399.1 |
| 10° | 261.2 | 260.0 | 265.0 | 267.6 | 275.8 | 279.7 | 297.5 | 320.3 | 344.5 | 371.8 | 399.1 |
| 12.5° | 255.5 | 251.1 | 253.6 | 253.0 | 260.6 | 262.5 | 279.7 | 307.6 | 336.9 | 370.5 | 404.2 |
| 15° | 258.7 | 255.5 | 253.0 | 253.0 | 254.9 | 256.1 | 274.6 | 299.4 | 332.4 | 372.5 | 415.7 |
| 17.5° | 268.9 | 266.9 | 259.3 | 251.7 | 260.0 | 260.0 | 271.4 | 297.5 | 333.0 | 378.2 | 429.7 |
| 20° | 280.9 | 279.0 | 265.7 | 256.8 | 262.5 | 268.9 | 280.9 | 301.9 | 335.0 | 382.6 | 451.3 |
| 22.5° | 294.3 | 294.3 | 275.8 | 265.7 | 273.3 | 273.9 | 295.5 | 315.9 | 342.6 | 394.1 | 465.2 |
| 25° | 310.8 | 309.5 | 291.7 | 280.3 | 282.8 | 289.8 | 309.5 | 331.1 | 356.6 | 410.0 | 491.3 |
| 27.5° | 332.4 | 330.5 | 309.5 | 298.1 | 301.3 | 308.9 | 331.1 | 352.8 | 369.3 | 416.3 | 513.6 |
| 30° | 350.2 | 348.3 | 331.1 | 314.0 | 321.0 | 328.0 | 354.0 | 373.1 | 385.2 | 428.4 | 539.0 |
| 32.5° | 354.0 | 350.8 | 339.4 | 331.8 | 339.4 | 352.8 | 373.1 | 392.8 | 411.2 | 458.9 | 587.3 |
| 35° | 397.9 | 386.4 | 356.6 | 344.5 | 355.9 | 360.4 | 394.1 | 429.0 | 446.8 | 483.0 | 641.3 |
| 37.5° | 481.8 | 471.0 | 431.6 | 397.9 | 382.0 | 387.1 | 430.9 | 474.1 | 491.3 | 528.2 | 700.4 |
| 40° | 584.7 | 566.9 | 525.0 | 479.9 | 447.5 | 441.1 | 469.7 | 533.3 | 549.8 | 584.7 | 778.0 |
| 42.5° | 702.3 | 685.2 | 620.3 | 566.9 | 533.9 | 525.6 | 530.1 | 601.9 | 615.9 | 636.9 | 828.8 |
| 45° | 786.9 | 778.0 | 704.9 | 657.2 | 631.1 | 622.2 | 611.4 | 676.9 | 694.7 | 701.7 | 902.5 |
| 47.5° | 835.8 | 829.4 | 788.8 | 756.3 | 721.4 | 711.9 | 718.8 | 781.1 | 769.1 | 774.8 | 973.1 |
| 50° | 901.3 | 884.7 | 829.4 | 839.6 | 832.6 | 830.1 | 842.2 | 869.5 | 851.7 | 835.2 | 1050.0 |
| 52.5° | 954.0 | 924.8 | 886.0 | 910.8 | 921.6 | 931.1 | 973.7 | 994.1 | 914.6 | 889.2 | 1099.6 |
| 55° | 986.4 | 958.5 | 968.6 | 991.5 | 1003.0 | 1046.8 | 1097.0 | 1081.8 | 955.9 | 932.4 | 1165.7 |
| 57.5° | 1015.7 | 1017.6 | 1044.9 | 1051.9 | 1110.4 | 1118.0 | 1214.6 | 1165.0 | 985.2 | 971.8 | 1191.7 |
| 60° | 1086.2 | 1079.2 | 1101.5 | 1146.6 | 1202.5 | 1245.1 | 1337.3 | 1221.0 | 999.8 | 992.1 | 1184.7 |
| 62.5° | 1213.3 | 1170.1 | 1177.7 | 1234.9 | 1316.9 | 1363.3 | 1407.8 | 1246.4 | 996.0 | 995.3 | 1163.8 |
| 65° | 1374.8 | 1325.2 | 1302.3 | 1355.7 | 1461.8 | 1527.3 | 1487.3 | 1275.0 | 970.5 | 988.3 | 1085.6 |
| 67.5° | 1508.9 | 1509.5 | 1466.9 | 1496.8 | 1635.4 | 1649.3 | 1562.3 | 1269.3 | 928.0 | 933.0 | 894.9 |
| 70° | 1663.3 | 1684.3 | 1646.8 | 1740.2 | 1809.5 | 1818.4 | 1648.1 | 1222.2 | 836.4 | 703.6 | 514.2 |
| 72.5° | 1702.7 | 1713.5 | 1830.5 | 1974.1 | 2052.3 | 2054.8 | 1732.6 | 1065.2 | 550.4 | 310.8 | 159.5 |
| 75° | 1337.3 | 1347.4 | 1761.8 | 2079.6 | 2195.9 | 2173.7 | 1591.5 | 691.5 | 214.2 | 90.9 | 38.1 |
| 77.5° | 746.2 | 749.4 | 1093.8 | 1681.1 | 1862.9 | 1773.3 | 1114.8 | 269.5 | 86.4 | 52.1 | 17.8 |
| 80° | 204.0 | 239.6 | 405.5 | 828.8 | 1137.7 | 1116.7 | 530.7 | 87.7 | 55.9 | 40.7 | 8.3 |
| 82.5° | 48.9 | 52.8 | 130.3 | 366.7 | 601.3 | 627.3 | 158.3 | 44.5 | 38.8 | 33.7 | 4.4 |
| 85° | 17.8 | 19.7 | 40.0 | 178.6 | 308.9 | 283.5 | 47.7 | 22.2 | 28.6 | 26.1 | 1.9 |
| 87.5° | 6.4 | 6.4 | 12.7 | 58.5 | 90.3 | 68.0 | 15.9 | 7.6 | 14.6 | 15.9 | 0.6 |
| 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° | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 |
| 2.5° | 401.7 | 401.7 | 410.6 | 418.2 | 420.8 | 423.9 | 420.8 | 427.7 | 427.1 | 423.9 | 425.2 |
| 5° | 402.3 | 413.8 | 421.4 | 426.5 | 429.0 | 428.4 | 429.7 | 422.0 | 417.6 | 414.4 | 411.2 |
| 7.5° | 405.5 | 416.3 | 430.3 | 429.0 | 422.0 | 407.4 | 396.0 | 375.6 | 355.9 | 355.3 | 352.1 |
| 10° | 416.3 | 425.8 | 434.1 | 429.0 | 403.6 | 359.1 | 322.9 | 295.5 | 270.8 | 259.3 | 260.6 |
| 12.5° | 423.9 | 441.7 | 437.9 | 411.9 | 359.1 | 300.6 | 247.2 | 207.2 | 185.0 | 164.0 | 164.0 |
| 15° | 439.8 | 446.2 | 444.9 | 387.1 | 304.4 | 234.5 | 169.7 | 129.0 | 105.5 | 96.0 | 94.7 |
| 17.5° | 455.1 | 462.1 | 440.5 | 349.6 | 250.4 | 157.6 | 103.0 | 80.1 | 76.9 | 75.6 | 76.3 |
| 20° | 474.1 | 474.8 | 436.6 | 312.1 | 188.1 | 99.8 | 73.7 | 71.8 | 72.5 | 71.8 | 71.8 |
| 22.5° | 494.5 | 498.9 | 423.3 | 259.3 | 125.2 | 72.5 | 68.6 | 69.3 | 69.3 | 69.3 | 71.2 |
| 25° | 521.2 | 514.2 | 402.3 | 209.1 | 82.0 | 66.7 | 66.7 | 67.4 | 67.4 | 67.4 | 68.0 |
| 27.5° | 539.0 | 529.4 | 375.6 | 150.6 | 64.2 | 62.9 | 64.2 | 64.2 | 65.5 | 65.5 | 65.5 |
| 30° | 575.8 | 551.1 | 341.9 | 97.2 | 57.8 | 59.7 | 61.0 | 62.3 | 62.9 | 64.2 | 64.8 |
| 32.5° | 604.4 | 570.1 | 300.0 | 64.8 | 52.8 | 54.0 | 57.2 | 59.7 | 62.3 | 61.7 | 61.7 |
| 35° | 656.6 | 601.3 | 261.2 | 51.5 | 48.3 | 48.3 | 51.5 | 55.9 | 59.7 | 61.0 | 61.0 |
| 37.5° | 716.3 | 626.7 | 207.2 | 47.0 | 44.5 | 44.5 | 46.4 | 51.5 | 56.6 | 59.1 | 57.8 |
| 40° | 765.9 | 655.9 | 153.2 | 43.9 | 41.3 | 41.3 | 42.6 | 46.4 | 52.1 | 56.6 | 57.2 |
| 42.5° | 800.8 | 677.5 | 103.6 | 40.7 | 38.8 | 38.1 | 40.0 | 41.9 | 46.4 | 52.8 | 54.0 |
| 45° | 832.6 | 689.0 | 64.2 | 37.5 | 36.2 | 36.2 | 36.2 | 38.1 | 41.3 | 47.0 | 48.3 |
| 47.5° | 889.2 | 701.7 | 46.4 | 35.0 | 33.1 | 33.7 | 34.3 | 35.0 | 37.5 | 38.8 | 39.4 |
| 50° | 936.9 | 711.2 | 38.1 | 32.4 | 31.1 | 31.8 | 31.8 | 31.8 | 33.1 | 31.1 | 31.1 |
| 52.5° | 973.1 | 701.7 | 32.4 | 29.9 | 28.6 | 29.2 | 28.6 | 28.6 | 27.3 | 24.8 | 24.8 |
| 55° | 999.8 | 684.5 | 26.1 | 27.3 | 27.3 | 27.3 | 26.1 | 24.2 | 21.6 | 19.7 | 19.7 |
| 57.5° | 1006.8 | 655.3 | 20.3 | 22.9 | 24.8 | 24.8 | 22.2 | 19.7 | 16.5 | 14.6 | 14.0 |
| 60° | 996.0 | 591.7 | 15.3 | 16.5 | 19.1 | 19.7 | 17.8 | 14.6 | 11.4 | 9.5 | 9.5 |
| 62.5° | 957.2 | 541.5 | 12.1 | 10.8 | 14.0 | 14.6 | 12.7 | 9.5 | 6.4 | 4.4 | 3.8 |
| 65° | 883.5 | 464.0 | 8.9 | 7.6 | 9.5 | 10.2 | 8.3 | 4.4 | 1.9 | 0.6 | 0.0 |
| 67.5° | 708.7 | 349.6 | 5.7 | 5.1 | 6.4 | 6.4 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 |
| 70° | 392.2 | 196.4 | 3.8 | 2.5 | 3.2 | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 113.1 | 55.9 | 1.9 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 30.5 | 13.3 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 13.3 | 5.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.6 | 0.0 | 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)