

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: P674746

Luminaire Tested: **CCP-SA-1A-830-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674746
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-830-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T3R distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

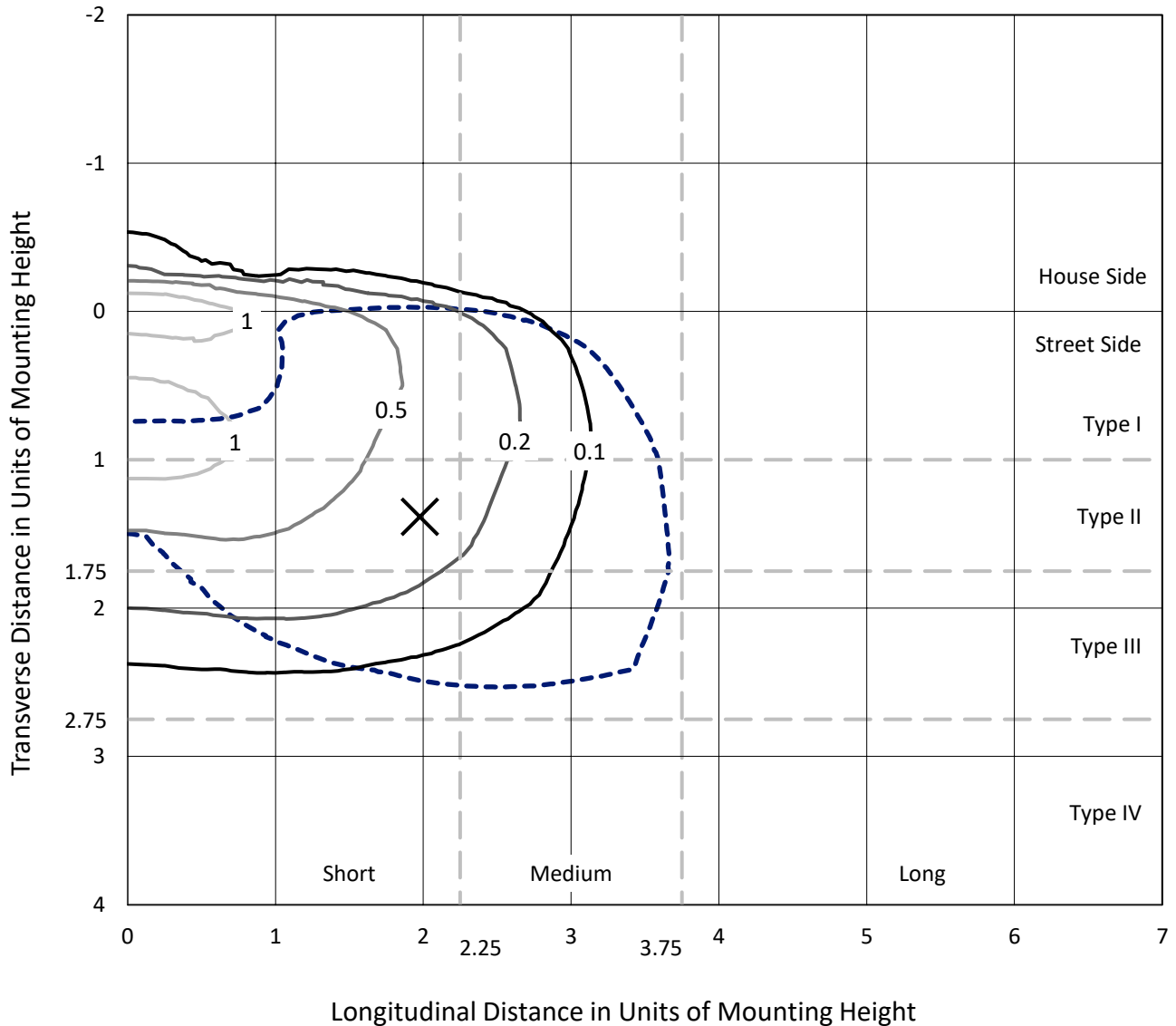
Lumens per Lamp: N/A
Luminaire Lumens: 1724.1 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
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

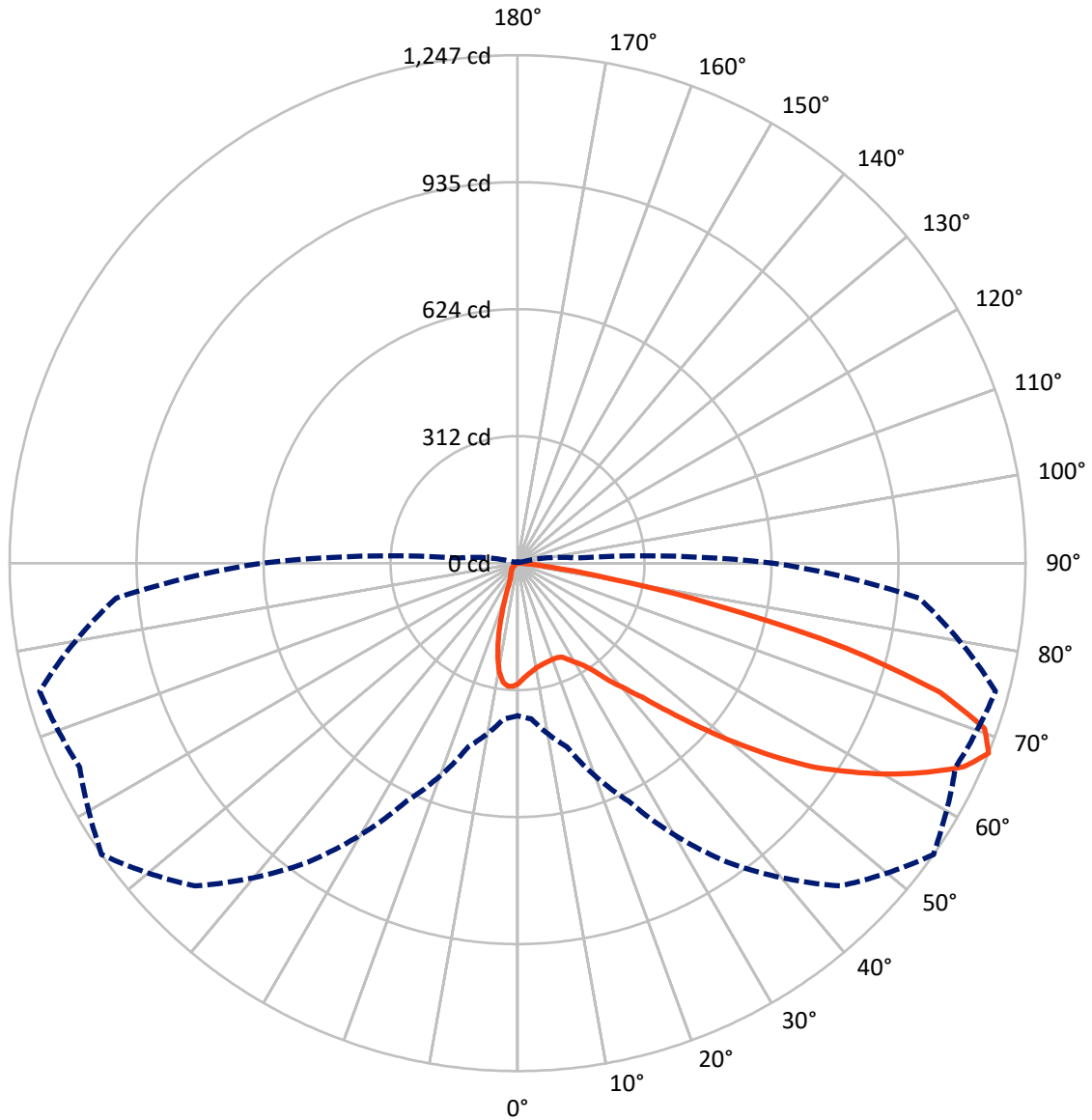
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 154.9 | 0.0 | 154.9 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 1569.2 | 0.0 | 1569.2 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 1724.1 | 0.0 | 1724.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.9 | 1.5 |
| 10°-20° | 59.0 | 3.4 |
| 20°-30° | 94.7 | 5.5 |
| 30°-40° | 164.3 | 9.5 |
| 40°-50° | 273.9 | 15.9 |
| 50°-60° | 400.6 | 23.2 |
| 60°-70° | 467.1 | 27.1 |
| 70°-80° | 226.7 | 13.1 |
| 80°-90° | 11.9 | 0.7 |
| 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° | 1724.1 | 100.0 |
| 0°-180° | 1724.1 | 100.0 |



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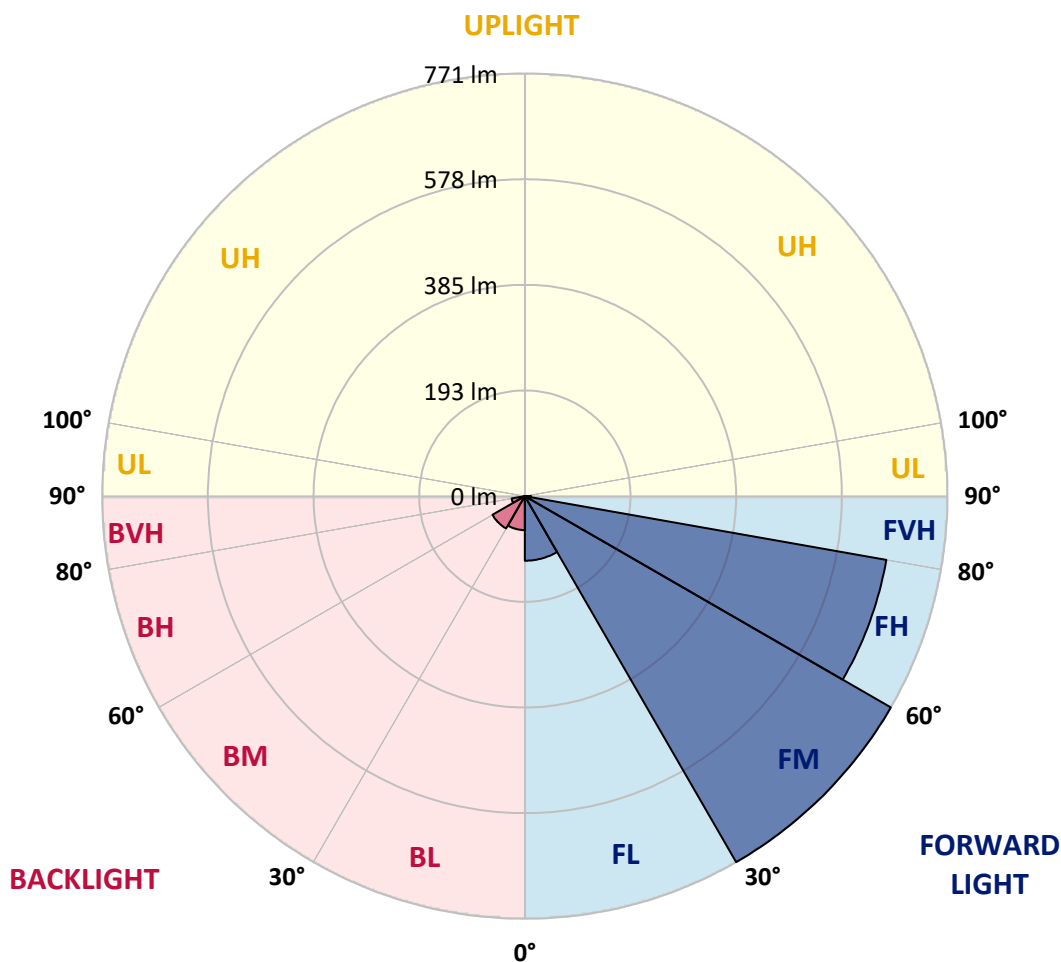
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 117.8 | 6.8 | | | |
| FM (30°-60°) | 770.6 | 44.7 | | | |
| FH (60°-80°) | 669.3 | 38.8 | | | G1/1800 |
| FVH (80°-90°) | 11.5 | 0.7 | | | G1/100 |
| BL (0°-30°) | 61.9 | 3.6 | B0/110 | | |
| BM (30°-60°) | 68.2 | 4.0 | B0/220 | | |
| BH (60°-80°) | 24.4 | 1.4 | 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: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 |
| 2.5° | 272.7 | 274.5 | 276.7 | 277.5 | 280.2 | 284.0 | 282.9 | 282.1 | 286.4 | 292.3 | 294.2 |
| 5° | 255.7 | 255.9 | 259.4 | 261.9 | 266.5 | 270.2 | 274.2 | 273.9 | 281.6 | 291.6 | 298.0 |
| 7.5° | 239.1 | 239.4 | 243.0 | 247.0 | 253.7 | 260.8 | 266.9 | 266.5 | 279.1 | 292.4 | 304.5 |
| 10° | 217.1 | 218.7 | 223.2 | 230.2 | 240.7 | 251.9 | 260.4 | 261.1 | 276.2 | 295.5 | 313.4 |
| 12.5° | 199.5 | 200.3 | 205.2 | 214.3 | 226.7 | 241.5 | 257.2 | 256.7 | 276.9 | 301.0 | 325.0 |
| 15° | 192.0 | 191.6 | 194.6 | 201.3 | 215.4 | 234.0 | 254.0 | 255.1 | 279.1 | 307.4 | 337.1 |
| 17.5° | 193.8 | 193.3 | 194.9 | 197.3 | 207.3 | 227.8 | 252.3 | 254.2 | 282.6 | 314.0 | 348.4 |
| 20° | 213.2 | 209.8 | 207.0 | 204.4 | 205.9 | 222.7 | 251.1 | 253.2 | 284.7 | 319.1 | 360.3 |
| 22.5° | 250.5 | 246.4 | 238.7 | 224.6 | 215.2 | 223.0 | 251.5 | 254.2 | 289.3 | 327.4 | 374.7 |
| 25° | 311.3 | 307.4 | 291.0 | 262.1 | 237.3 | 234.5 | 255.7 | 258.6 | 299.9 | 339.9 | 390.1 |
| 27.5° | 391.9 | 383.0 | 363.1 | 321.7 | 273.9 | 252.7 | 268.6 | 271.8 | 315.0 | 349.6 | 400.6 |
| 30° | 458.8 | 456.7 | 437.6 | 386.8 | 324.2 | 279.6 | 283.1 | 284.8 | 321.8 | 355.5 | 411.1 |
| 32.5° | 528.2 | 523.9 | 506.4 | 457.0 | 382.7 | 317.9 | 299.3 | 300.1 | 330.7 | 364.2 | 426.4 |
| 35° | 588.5 | 584.6 | 569.9 | 522.0 | 451.0 | 369.3 | 326.1 | 324.4 | 349.1 | 383.5 | 447.0 |
| 37.5° | 644.4 | 644.0 | 631.1 | 582.2 | 512.3 | 422.7 | 365.7 | 364.2 | 377.9 | 404.6 | 475.0 |
| 40° | 699.1 | 697.8 | 686.9 | 642.2 | 572.7 | 475.9 | 403.3 | 399.7 | 402.4 | 434.1 | 511.8 |
| 42.5° | 732.6 | 735.3 | 739.1 | 710.8 | 644.3 | 538.3 | 451.0 | 448.7 | 448.3 | 480.4 | 560.3 |
| 45° | 750.7 | 755.5 | 777.9 | 775.3 | 720.2 | 616.0 | 518.8 | 513.1 | 511.2 | 543.9 | 615.7 |
| 47.5° | 768.4 | 770.4 | 807.1 | 822.5 | 793.0 | 697.0 | 600.8 | 592.8 | 585.0 | 621.4 | 681.9 |
| 50° | 769.5 | 772.8 | 818.2 | 855.7 | 854.0 | 776.8 | 692.7 | 685.8 | 676.9 | 715.8 | 746.6 |
| 52.5° | 753.9 | 760.6 | 816.8 | 876.7 | 891.8 | 847.1 | 788.2 | 782.5 | 775.2 | 804.3 | 801.1 |
| 55° | 646.4 | 657.6 | 788.8 | 878.6 | 918.3 | 907.5 | 884.2 | 876.2 | 869.1 | 889.7 | 854.4 |
| 57.5° | 595.2 | 601.6 | 704.0 | 877.2 | 952.1 | 963.4 | 967.4 | 963.7 | 953.7 | 979.5 | 910.2 |
| 60° | 564.5 | 573.8 | 663.5 | 861.3 | 988.7 | 1026.6 | 1051.6 | 1044.3 | 1032.0 | 1067.5 | 969.9 |
| 62.5° | 527.9 | 534.5 | 623.2 | 815.5 | 1010.4 | 1091.0 | 1130.5 | 1123.9 | 1098.6 | 1148.6 | 1018.2 |
| 65° | 460.2 | 470.2 | 559.0 | 743.6 | 981.2 | 1138.2 | 1204.9 | 1202.6 | 1158.8 | 1210.0 | 1031.4 |
| 67.5° | 374.6 | 383.6 | 466.4 | 644.9 | 895.7 | 1120.5 | 1247.0 | 1240.0 | 1186.1 | 1214.6 | 989.6 |
| 70° | 281.2 | 286.1 | 348.5 | 492.7 | 733.9 | 1026.3 | 1216.5 | 1215.0 | 1144.7 | 1146.3 | 861.4 |
| 72.5° | 150.9 | 164.6 | 231.8 | 329.8 | 516.1 | 831.3 | 1084.1 | 1078.4 | 1021.2 | 938.8 | 619.5 |
| 75° | 52.7 | 56.7 | 123.4 | 185.2 | 280.4 | 553.7 | 833.6 | 820.3 | 763.7 | 610.6 | 337.6 |
| 77.5° | 32.4 | 35.6 | 54.8 | 94.7 | 109.1 | 240.3 | 500.9 | 483.5 | 447.0 | 264.0 | 115.3 |
| 80° | 22.4 | 25.3 | 36.7 | 49.6 | 37.2 | 77.8 | 230.5 | 224.0 | 172.4 | 62.9 | 26.5 |
| 82.5° | 12.5 | 15.1 | 27.8 | 24.3 | 14.9 | 20.2 | 79.9 | 74.0 | 45.9 | 17.0 | 8.9 |
| 85° | 7.3 | 8.7 | 19.5 | 17.2 | 7.6 | 7.1 | 20.8 | 18.6 | 11.9 | 6.4 | 4.3 |
| 87.5° | 3.8 | 4.9 | 14.3 | 11.4 | 4.6 | 2.5 | 4.8 | 4.6 | 3.0 | 2.2 | 2.9 |
| 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° | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 |
| 2.5° | 297.7 | 296.9 | 301.0 | 302.4 | 302.1 | 301.5 | 303.1 | 301.0 | 300.9 | 300.4 | 299.9 |
| 5° | 303.1 | 304.4 | 307.7 | 307.7 | 303.2 | 295.9 | 291.5 | 285.5 | 280.4 | 277.4 | 276.9 |
| 7.5° | 311.2 | 313.7 | 316.0 | 309.1 | 293.9 | 275.8 | 256.5 | 241.5 | 228.3 | 221.4 | 220.8 |
| 10° | 322.6 | 325.0 | 323.3 | 303.7 | 271.0 | 233.5 | 202.2 | 170.8 | 155.0 | 146.5 | 146.5 |
| 12.5° | 336.3 | 338.2 | 327.5 | 290.2 | 233.3 | 179.0 | 137.2 | 104.2 | 88.5 | 78.3 | 77.7 |
| 15° | 351.1 | 351.5 | 326.9 | 266.7 | 186.8 | 120.2 | 78.8 | 57.8 | 51.1 | 49.7 | 49.4 |
| 17.5° | 363.9 | 362.0 | 320.2 | 231.9 | 134.5 | 71.6 | 50.0 | 45.3 | 44.0 | 44.0 | 44.0 |
| 20° | 376.0 | 369.6 | 306.9 | 191.4 | 86.3 | 48.8 | 43.0 | 41.8 | 41.8 | 41.9 | 41.9 |
| 22.5° | 389.3 | 376.8 | 287.8 | 146.5 | 55.4 | 41.8 | 40.3 | 39.7 | 39.6 | 40.0 | 39.9 |
| 25° | 405.1 | 383.8 | 260.5 | 101.2 | 42.9 | 38.9 | 38.3 | 37.6 | 37.6 | 37.6 | 37.6 |
| 27.5° | 413.8 | 382.8 | 229.4 | 63.9 | 37.5 | 36.1 | 35.4 | 34.8 | 34.3 | 34.2 | 34.3 |
| 30° | 421.4 | 377.3 | 188.7 | 44.6 | 33.8 | 32.2 | 31.8 | 31.0 | 30.0 | 29.7 | 29.7 |
| 32.5° | 431.4 | 372.7 | 146.1 | 35.9 | 30.7 | 28.9 | 27.5 | 26.2 | 24.6 | 24.0 | 23.8 |
| 35° | 442.6 | 364.2 | 107.1 | 31.6 | 27.8 | 25.6 | 23.4 | 21.3 | 19.2 | 18.6 | 18.4 |
| 37.5° | 456.4 | 356.6 | 72.6 | 29.2 | 25.4 | 22.7 | 19.7 | 16.8 | 14.9 | 14.6 | 14.6 |
| 40° | 475.1 | 350.3 | 50.2 | 27.2 | 23.2 | 20.0 | 16.4 | 13.3 | 12.1 | 11.8 | 11.8 |
| 42.5° | 500.7 | 345.0 | 38.0 | 25.4 | 21.3 | 17.3 | 13.2 | 11.0 | 10.0 | 9.7 | 9.7 |
| 45° | 530.9 | 336.9 | 32.1 | 23.8 | 19.4 | 14.6 | 11.0 | 9.2 | 8.7 | 8.7 | 8.7 |
| 47.5° | 565.5 | 326.8 | 29.2 | 22.2 | 17.3 | 11.9 | 9.2 | 8.4 | 8.3 | 8.3 | 8.4 |
| 50° | 600.4 | 314.7 | 27.2 | 20.3 | 14.9 | 10.2 | 8.4 | 7.9 | 7.9 | 8.1 | 8.1 |
| 52.5° | 624.1 | 295.8 | 25.1 | 18.3 | 12.5 | 8.9 | 7.9 | 7.8 | 7.6 | 7.6 | 7.6 |
| 55° | 647.2 | 279.3 | 22.2 | 16.0 | 10.5 | 8.3 | 7.6 | 7.5 | 7.5 | 7.3 | 7.3 |
| 57.5° | 671.1 | 266.2 | 18.6 | 13.3 | 8.9 | 7.8 | 7.3 | 7.3 | 7.0 | 6.8 | 6.8 |
| 60° | 698.9 | 254.8 | 14.3 | 10.5 | 7.8 | 7.3 | 6.8 | 6.7 | 6.4 | 6.0 | 6.0 |
| 62.5° | 707.0 | 230.6 | 10.8 | 8.4 | 6.7 | 6.4 | 6.2 | 5.9 | 5.1 | 4.4 | 4.6 |
| 65° | 685.9 | 192.7 | 8.6 | 6.7 | 5.4 | 5.4 | 4.9 | 4.1 | 3.3 | 2.9 | 2.9 |
| 67.5° | 627.6 | 143.9 | 7.0 | 5.2 | 4.3 | 4.1 | 3.5 | 3.0 | 2.1 | 1.7 | 1.7 |
| 70° | 517.2 | 95.2 | 5.7 | 4.1 | 3.5 | 2.9 | 2.4 | 2.2 | 1.6 | 1.3 | 1.3 |
| 72.5° | 362.5 | 51.6 | 4.8 | 3.3 | 2.5 | 1.9 | 1.6 | 1.4 | 1.1 | 1.0 | 0.8 |
| 75° | 191.4 | 19.9 | 3.8 | 2.5 | 1.6 | 1.3 | 1.0 | 1.0 | 0.8 | 0.6 | 0.6 |
| 77.5° | 65.6 | 8.4 | 2.7 | 1.4 | 1.1 | 0.8 | 0.6 | 0.5 | 0.6 | 0.5 | 0.5 |
| 80° | 15.6 | 4.9 | 1.7 | 1.0 | 0.6 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 |
| 82.5° | 6.8 | 2.9 | 1.1 | 0.6 | 0.6 | 0.5 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 85° | 4.6 | 1.7 | 0.8 | 0.6 | 0.5 | 0.3 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.7 | 1.1 | 0.6 | 0.6 | 0.5 | 0.3 | 0.2 | 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)