

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: P673385

Luminaire Tested: **CCP-SA-1B-730-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673385
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-730-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4FT distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

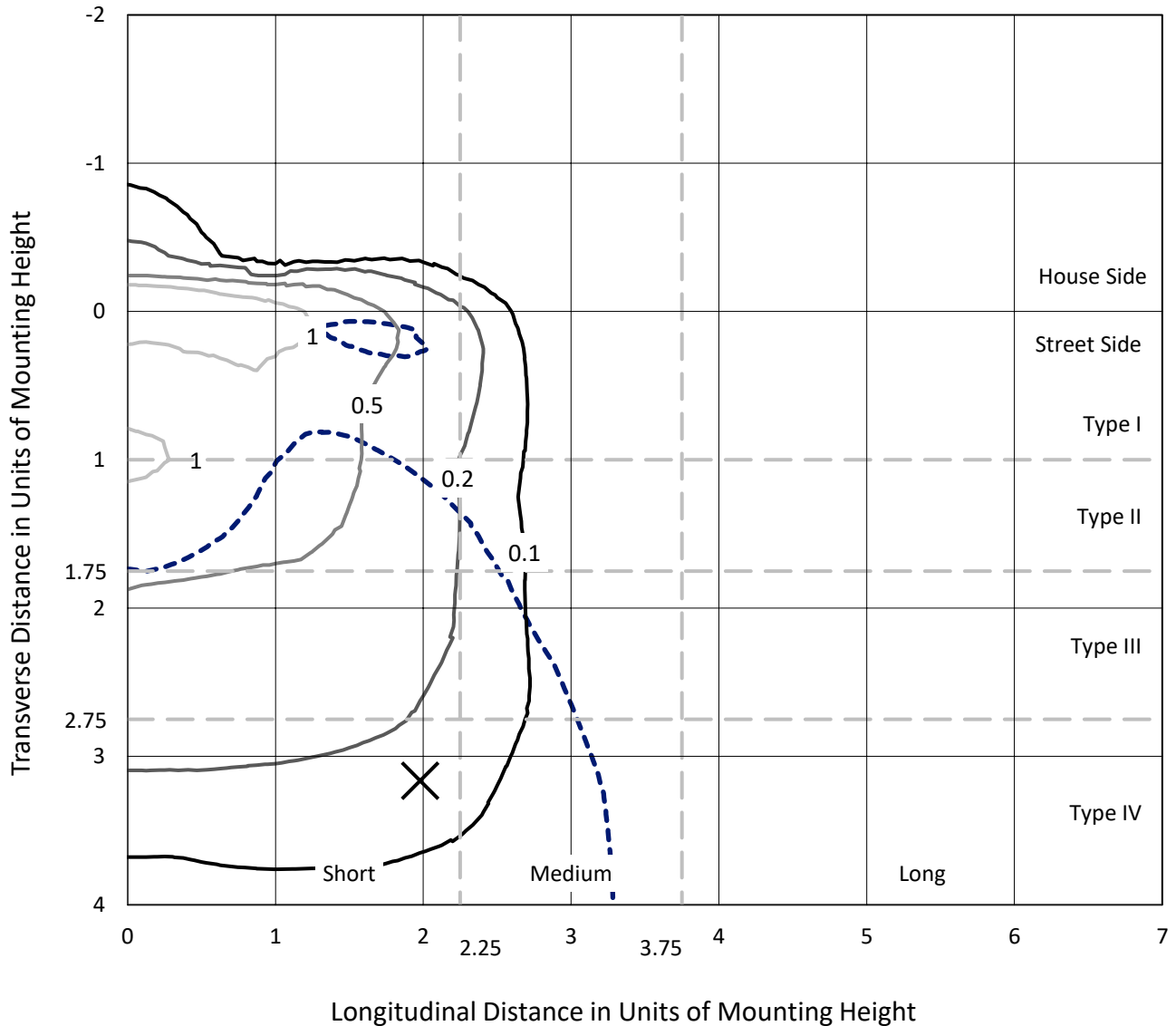
Lumens per Lamp: N/A
Luminaire Lumens: 2258.2 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

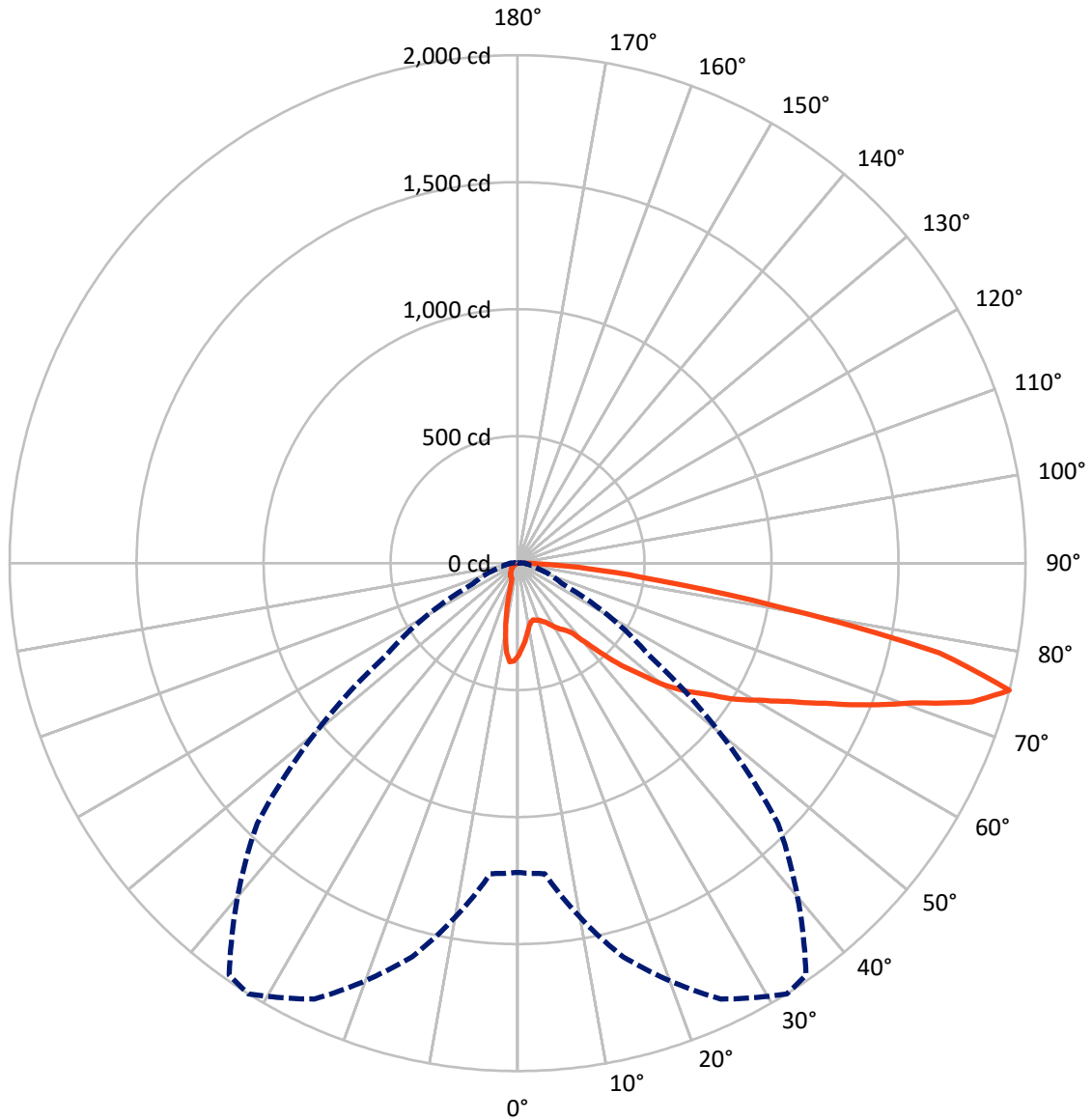
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 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 | 244.0 | 0.0 | 244.0 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 2014.2 | 0.0 | 2014.2 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 2258.2 | 0.0 | 2258.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 32.0 | 1.4 |
| 10°-20° | 72.7 | 3.2 |
| 20°-30° | 108.9 | 4.8 |
| 30°-40° | 167.2 | 7.4 |
| 40°-50° | 292.4 | 12.9 |
| 50°-60° | 457.0 | 20.2 |
| 60°-70° | 590.9 | 26.2 |
| 70°-80° | 481.3 | 21.3 |
| 80°-90° | 55.7 | 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° | 2258.2 | 100.0 |
| 0°-180° | 2258.2 | 100.0 |



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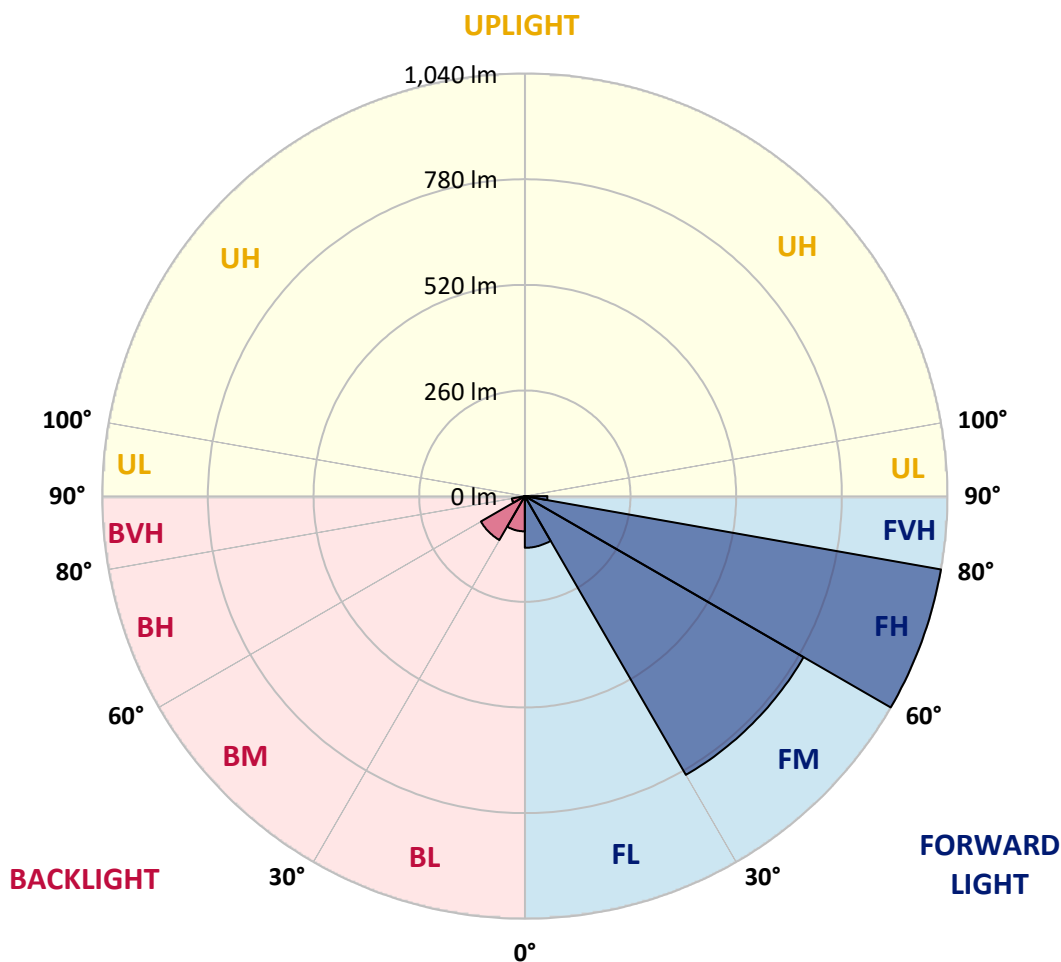
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 127.1 | 5.6 | | | |
| FM (30°-60°) | 791.8 | 35.1 | | | |
| FH (60°-80°) | 1039.7 | 46.0 | | | G1/1800 |
| FVH (80°-90°) | 55.7 | 2.5 | | | G1/100 |
| BL (0°-30°) | 86.7 | 3.8 | B0/110 | | |
| BM (30°-60°) | 124.8 | 5.5 | B0/220 | | |
| BH (60°-80°) | 32.4 | 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° | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 |
| 2.5° | 327.0 | 331.6 | 331.1 | 333.9 | 334.5 | 336.3 | 340.3 | 340.3 | 351.9 | 360.0 | 365.2 |
| 5° | 297.5 | 294.6 | 295.7 | 299.2 | 307.9 | 307.3 | 317.2 | 322.4 | 336.3 | 347.8 | 360.0 |
| 7.5° | 261.0 | 260.4 | 262.8 | 270.9 | 277.2 | 282.4 | 292.9 | 306.2 | 324.7 | 342.0 | 363.5 |
| 10° | 237.9 | 236.7 | 241.3 | 243.7 | 251.2 | 254.7 | 270.9 | 291.7 | 313.7 | 338.6 | 363.5 |
| 12.5° | 232.7 | 228.6 | 230.9 | 230.3 | 237.3 | 239.0 | 254.7 | 280.1 | 306.7 | 337.4 | 368.1 |
| 15° | 235.6 | 232.7 | 230.3 | 230.3 | 232.1 | 233.2 | 250.0 | 272.6 | 302.7 | 339.2 | 378.5 |
| 17.5° | 244.8 | 243.1 | 236.1 | 229.2 | 236.7 | 236.7 | 247.1 | 270.9 | 303.3 | 344.4 | 391.2 |
| 20° | 255.8 | 254.1 | 241.9 | 233.8 | 239.0 | 244.8 | 255.8 | 274.9 | 305.0 | 348.4 | 410.9 |
| 22.5° | 268.0 | 268.0 | 251.2 | 241.9 | 248.9 | 249.4 | 269.1 | 287.6 | 312.0 | 358.8 | 423.7 |
| 25° | 283.0 | 281.9 | 265.7 | 255.2 | 257.6 | 263.9 | 281.9 | 301.5 | 324.7 | 373.3 | 447.4 |
| 27.5° | 302.7 | 301.0 | 281.9 | 271.4 | 274.3 | 281.3 | 301.5 | 321.2 | 336.3 | 379.1 | 467.6 |
| 30° | 318.9 | 317.2 | 301.5 | 285.9 | 292.3 | 298.6 | 322.4 | 339.7 | 350.7 | 390.1 | 490.8 |
| 32.5° | 322.4 | 319.5 | 309.1 | 302.1 | 309.1 | 321.2 | 339.7 | 357.7 | 374.5 | 417.9 | 534.8 |
| 35° | 362.3 | 351.9 | 324.7 | 313.7 | 324.1 | 328.2 | 358.8 | 390.7 | 406.9 | 439.9 | 584.0 |
| 37.5° | 438.7 | 428.9 | 393.0 | 362.3 | 347.8 | 352.5 | 392.4 | 431.8 | 447.4 | 481.0 | 637.8 |
| 40° | 532.5 | 516.3 | 478.1 | 437.0 | 407.5 | 401.7 | 427.7 | 485.6 | 500.6 | 532.5 | 708.4 |
| 42.5° | 639.5 | 623.9 | 564.9 | 516.3 | 486.2 | 478.6 | 482.7 | 548.1 | 560.8 | 579.9 | 754.7 |
| 45° | 716.5 | 708.4 | 641.8 | 598.4 | 574.7 | 566.6 | 556.8 | 616.4 | 632.6 | 639.0 | 821.8 |
| 47.5° | 761.1 | 755.3 | 718.2 | 688.7 | 656.9 | 648.2 | 654.6 | 711.3 | 700.3 | 705.5 | 886.1 |
| 50° | 820.7 | 805.6 | 755.3 | 764.5 | 758.2 | 755.9 | 766.9 | 791.7 | 775.5 | 760.5 | 956.1 |
| 52.5° | 868.7 | 842.1 | 806.8 | 829.4 | 839.2 | 847.9 | 886.7 | 905.2 | 832.8 | 809.7 | 1001.3 |
| 55° | 898.2 | 872.8 | 882.0 | 902.9 | 913.3 | 953.2 | 998.9 | 985.1 | 870.5 | 849.0 | 1061.5 |
| 57.5° | 924.9 | 926.6 | 951.5 | 957.9 | 1011.1 | 1018.0 | 1106.0 | 1060.9 | 897.1 | 884.9 | 1085.2 |
| 60° | 989.1 | 982.7 | 1003.0 | 1044.1 | 1095.0 | 1133.8 | 1217.7 | 1111.8 | 910.4 | 903.5 | 1078.8 |
| 62.5° | 1104.9 | 1065.5 | 1072.5 | 1124.5 | 1199.2 | 1241.4 | 1282.0 | 1135.0 | 906.9 | 906.3 | 1059.7 |
| 65° | 1251.9 | 1206.7 | 1185.9 | 1234.5 | 1331.2 | 1390.8 | 1354.3 | 1161.0 | 883.8 | 900.0 | 988.5 |
| 67.5° | 1374.0 | 1374.6 | 1335.8 | 1363.0 | 1489.2 | 1501.9 | 1422.6 | 1155.8 | 845.0 | 849.6 | 814.9 |
| 70° | 1514.6 | 1533.7 | 1499.6 | 1584.7 | 1647.7 | 1655.8 | 1500.7 | 1113.0 | 761.7 | 640.7 | 468.2 |
| 72.5° | 1550.5 | 1560.3 | 1666.8 | 1797.6 | 1868.8 | 1871.1 | 1577.7 | 970.0 | 501.2 | 283.0 | 145.3 |
| 75° | 1217.7 | 1227.0 | 1604.3 | 1893.7 | 1999.6 | 1979.4 | 1449.2 | 629.7 | 195.0 | 82.8 | 34.7 |
| 77.5° | 679.5 | 682.4 | 996.1 | 1530.8 | 1696.4 | 1614.8 | 1015.2 | 245.4 | 78.7 | 47.5 | 16.2 |
| 80° | 185.8 | 218.2 | 369.3 | 754.7 | 1036.0 | 1016.9 | 483.3 | 79.9 | 50.9 | 37.0 | 7.5 |
| 82.5° | 44.6 | 48.0 | 118.6 | 333.9 | 547.5 | 571.2 | 144.1 | 40.5 | 35.3 | 30.7 | 4.1 |
| 85° | 16.2 | 17.9 | 36.5 | 162.6 | 281.3 | 258.1 | 43.4 | 20.3 | 26.0 | 23.7 | 1.7 |
| 87.5° | 5.8 | 5.8 | 11.6 | 53.2 | 82.2 | 61.9 | 14.5 | 6.9 | 13.3 | 14.5 | 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° | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 | 364.6 |
| 2.5° | 365.8 | 365.8 | 373.9 | 380.8 | 383.1 | 386.0 | 383.1 | 389.5 | 388.9 | 386.0 | 387.2 |
| 5° | 366.4 | 376.8 | 383.7 | 388.4 | 390.7 | 390.1 | 391.2 | 384.3 | 380.2 | 377.4 | 374.5 |
| 7.5° | 369.3 | 379.1 | 391.8 | 390.7 | 384.3 | 371.0 | 360.6 | 342.0 | 324.1 | 323.5 | 320.6 |
| 10° | 379.1 | 387.8 | 395.3 | 390.7 | 367.5 | 327.0 | 294.0 | 269.1 | 246.6 | 236.1 | 237.3 |
| 12.5° | 386.0 | 402.2 | 398.8 | 375.0 | 327.0 | 273.8 | 225.1 | 188.7 | 168.4 | 149.3 | 149.3 |
| 15° | 400.5 | 406.3 | 405.1 | 352.5 | 277.2 | 213.6 | 154.5 | 117.5 | 96.1 | 87.4 | 86.2 |
| 17.5° | 414.4 | 420.8 | 401.1 | 318.3 | 228.0 | 143.5 | 93.8 | 72.9 | 70.0 | 68.9 | 69.5 |
| 20° | 431.8 | 432.3 | 397.6 | 284.2 | 171.3 | 90.9 | 67.1 | 65.4 | 66.0 | 65.4 | 65.4 |
| 22.5° | 450.3 | 454.3 | 385.5 | 236.1 | 114.0 | 66.0 | 62.5 | 63.1 | 63.1 | 63.1 | 64.8 |
| 25° | 474.6 | 468.2 | 366.4 | 190.4 | 74.7 | 60.8 | 60.8 | 61.3 | 61.3 | 61.3 | 61.9 |
| 27.5° | 490.8 | 482.1 | 342.0 | 137.2 | 58.5 | 57.3 | 58.5 | 58.5 | 59.6 | 59.6 | 59.6 |
| 30° | 524.4 | 501.8 | 311.4 | 88.6 | 52.7 | 54.4 | 55.6 | 56.7 | 57.3 | 58.5 | 59.0 |
| 32.5° | 550.4 | 519.2 | 273.2 | 59.0 | 48.0 | 49.2 | 52.1 | 54.4 | 56.7 | 56.1 | 56.1 |
| 35° | 597.9 | 547.5 | 237.9 | 46.9 | 44.0 | 44.0 | 46.9 | 50.9 | 54.4 | 55.6 | 55.6 |
| 37.5° | 652.3 | 570.7 | 188.7 | 42.8 | 40.5 | 40.5 | 42.2 | 46.9 | 51.5 | 53.8 | 52.7 |
| 40° | 697.4 | 597.3 | 139.5 | 39.9 | 37.6 | 37.6 | 38.8 | 42.2 | 47.5 | 51.5 | 52.1 |
| 42.5° | 729.2 | 617.0 | 94.3 | 37.0 | 35.3 | 34.7 | 36.5 | 38.2 | 42.2 | 48.0 | 49.2 |
| 45° | 758.2 | 627.4 | 58.5 | 34.1 | 33.0 | 33.0 | 33.0 | 34.7 | 37.6 | 42.8 | 44.0 |
| 47.5° | 809.7 | 639.0 | 42.2 | 31.8 | 30.1 | 30.7 | 31.3 | 31.8 | 34.1 | 35.3 | 35.9 |
| 50° | 853.1 | 647.6 | 34.7 | 29.5 | 28.4 | 28.9 | 28.9 | 28.9 | 30.1 | 28.4 | 28.4 |
| 52.5° | 886.1 | 639.0 | 29.5 | 27.2 | 26.0 | 26.6 | 26.0 | 26.0 | 24.9 | 22.6 | 22.6 |
| 55° | 910.4 | 623.3 | 23.7 | 24.9 | 24.9 | 24.9 | 23.7 | 22.0 | 19.7 | 17.9 | 17.9 |
| 57.5° | 916.8 | 596.7 | 18.5 | 20.8 | 22.6 | 22.6 | 20.3 | 17.9 | 15.0 | 13.3 | 12.7 |
| 60° | 906.9 | 538.8 | 13.9 | 15.0 | 17.4 | 17.9 | 16.2 | 13.3 | 10.4 | 8.7 | 8.7 |
| 62.5° | 871.6 | 493.1 | 11.0 | 9.8 | 12.7 | 13.3 | 11.6 | 8.7 | 5.8 | 4.1 | 3.5 |
| 65° | 804.5 | 422.5 | 8.1 | 6.9 | 8.7 | 9.3 | 7.5 | 4.1 | 1.7 | 0.6 | 0.0 |
| 67.5° | 645.3 | 318.3 | 5.2 | 4.6 | 5.8 | 5.8 | 3.5 | 1.2 | 0.0 | 0.0 | 0.0 |
| 70° | 357.1 | 178.8 | 3.5 | 2.3 | 2.9 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 103.0 | 50.9 | 1.7 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 27.8 | 12.2 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 12.2 | 4.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.2 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.2 | 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)