

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: P674934

Luminaire Tested: **CCW-SA-1A-722-U-T3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P674934
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-722-U-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T3 distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

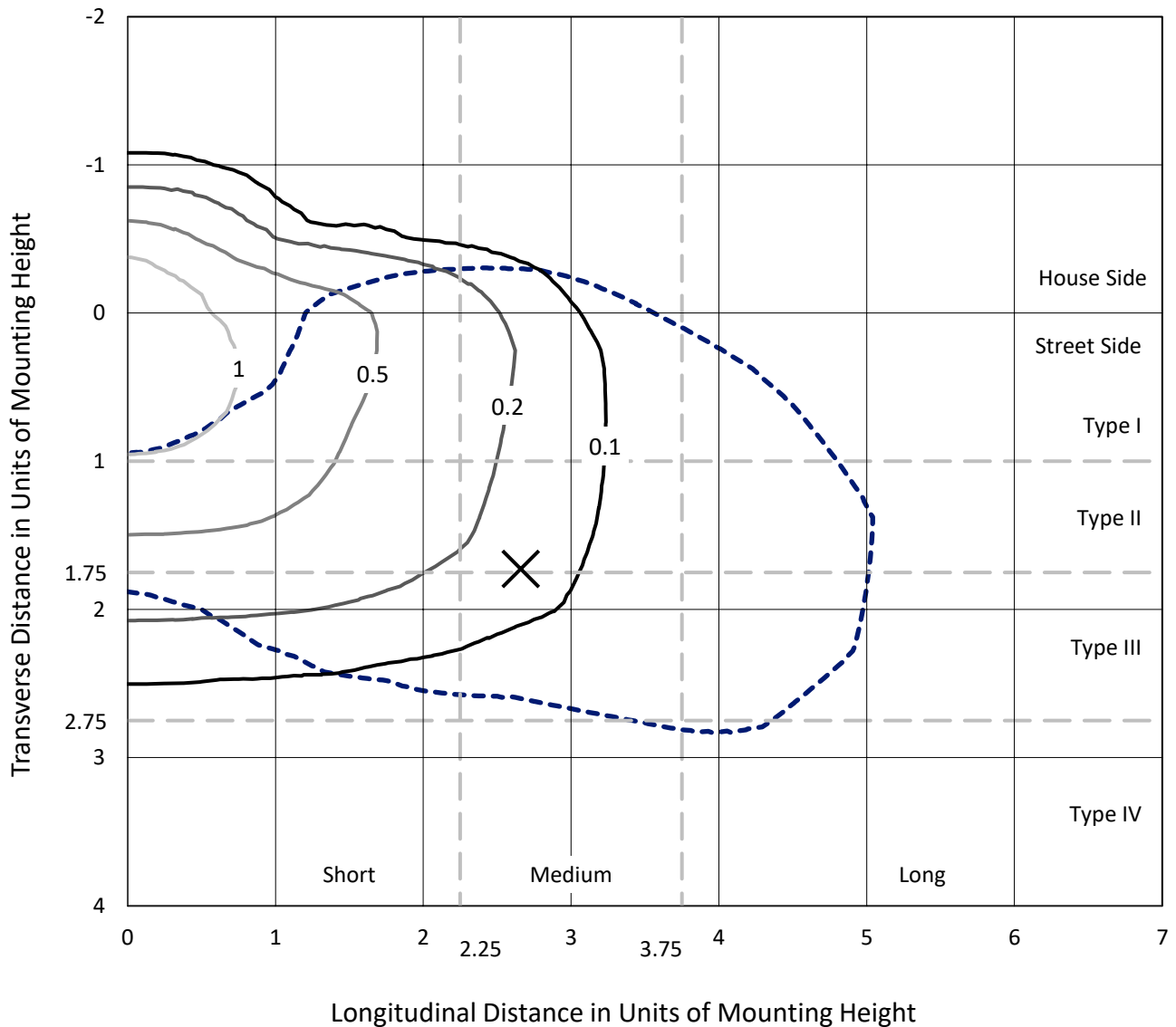
Lumens per Lamp: N/A
Luminaire Lumens: 2036.1 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

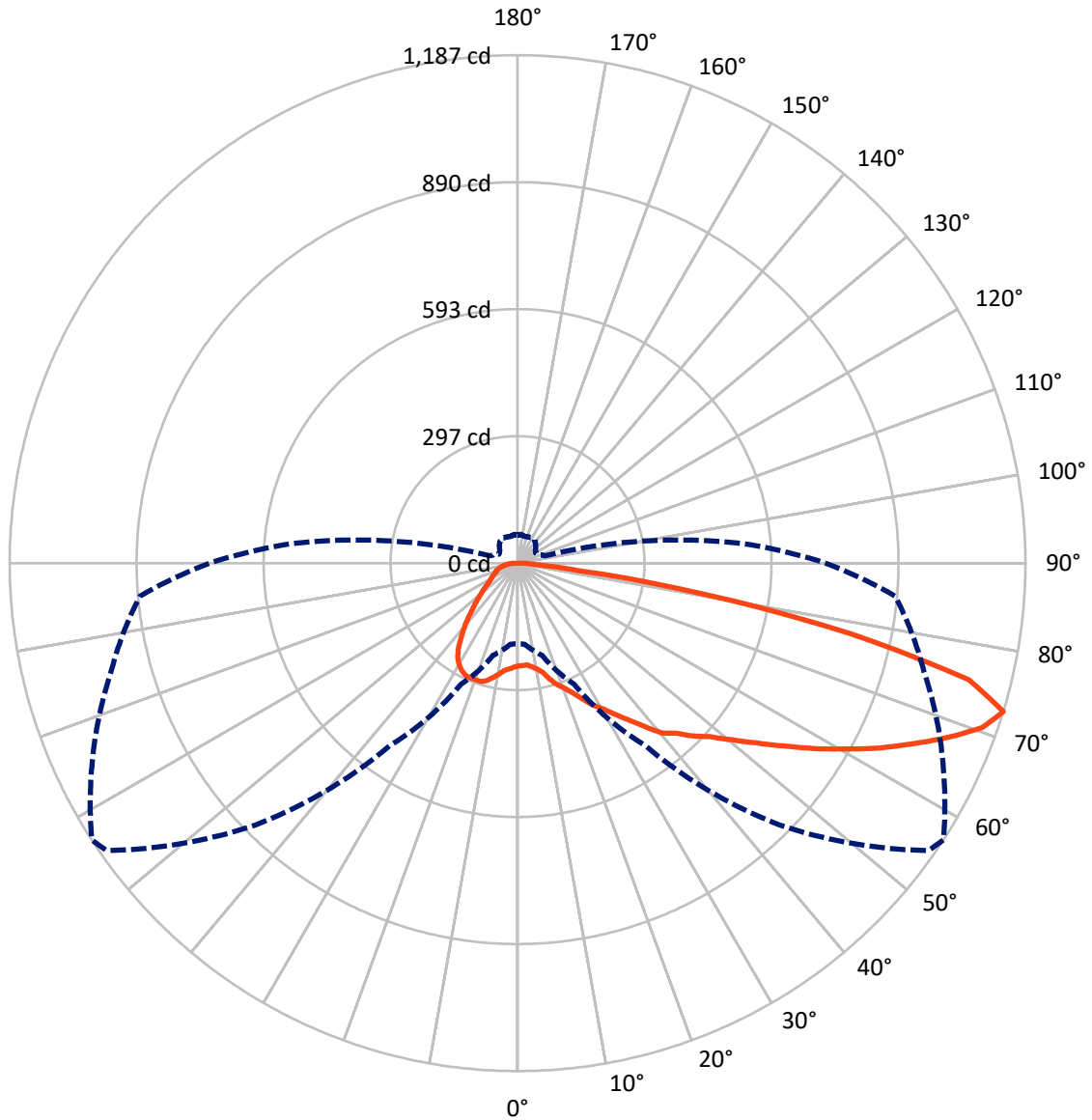
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 475.5 | 0.0 | 475.5 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 1560.6 | 0.0 | 1560.6 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 2036.1 | 0.0 | 2036.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.9 | 1.2 |
| 10°-20° | 80.4 | 3.9 |
| 20°-30° | 147.0 | 7.2 |
| 30°-40° | 215.6 | 10.6 |
| 40°-50° | 296.9 | 14.6 |
| 50°-60° | 407.1 | 20.0 |
| 60°-70° | 490.8 | 24.1 |
| 70°-80° | 326.9 | 16.1 |
| 80°-90° | 47.6 | 2.3 |
| 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° | 2036.1 | 100.0 |
| 0°-180° | 2036.1 | 100.0 |



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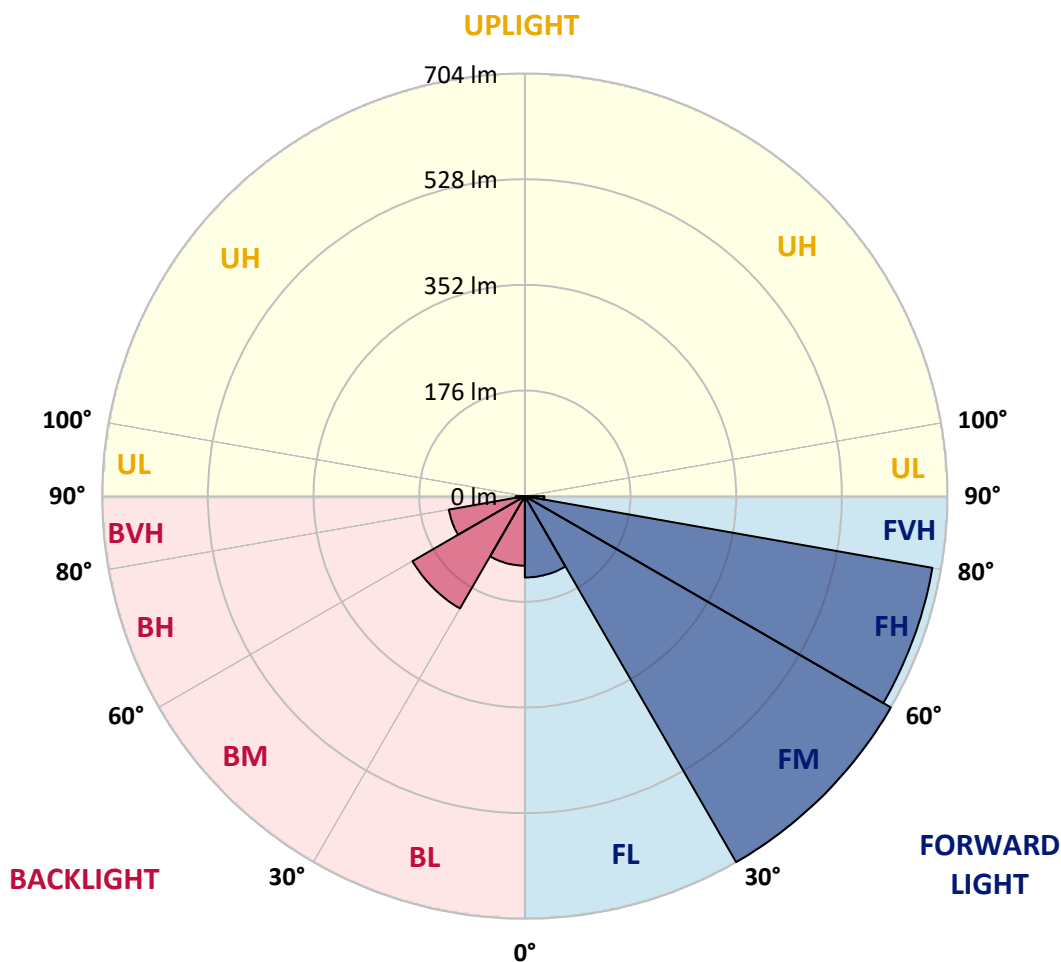
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 135.5 | 6.7 | | | |
| FM (30°-60°) | 703.6 | 34.6 | | | |
| FH (60°-80°) | 689.1 | 33.8 | | | G1/1800 |
| FVH (80°-90°) | 32.4 | 1.6 | | | G1/100 |
| BL (0°-30°) | 115.8 | 5.7 | B1/500 | | |
| BM (30°-60°) | 216.0 | 10.6 | B0/220 | | |
| BH (60°-80°) | 128.6 | 6.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.2 | 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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 |
| 2.5° | 235.9 | 236.6 | 238.1 | 237.4 | 237.4 | 235.1 | 238.8 | 239.6 | 238.1 | 238.8 | 240.3 |
| 5° | 235.9 | 237.4 | 239.6 | 238.1 | 238.8 | 238.1 | 236.6 | 238.8 | 238.8 | 239.6 | 241.8 |
| 7.5° | 248.5 | 247.7 | 247.7 | 245.5 | 244.8 | 244.0 | 244.8 | 244.8 | 243.3 | 244.0 | 244.0 |
| 10° | 262.6 | 262.6 | 261.1 | 261.1 | 259.6 | 255.9 | 252.2 | 251.5 | 249.2 | 250.0 | 250.0 |
| 12.5° | 277.4 | 278.9 | 280.4 | 275.9 | 274.4 | 268.5 | 266.3 | 261.8 | 261.8 | 260.4 | 259.6 |
| 15° | 296.0 | 293.7 | 295.2 | 293.7 | 290.0 | 284.1 | 280.4 | 281.1 | 275.9 | 274.4 | 272.2 |
| 17.5° | 312.3 | 313.0 | 310.8 | 309.3 | 302.6 | 298.2 | 298.9 | 298.2 | 291.5 | 289.3 | 285.6 |
| 20° | 331.6 | 330.8 | 330.8 | 326.4 | 320.4 | 314.5 | 312.3 | 311.5 | 313.0 | 308.6 | 299.7 |
| 22.5° | 351.6 | 348.6 | 348.6 | 344.9 | 336.8 | 333.0 | 331.6 | 328.6 | 330.1 | 326.4 | 313.0 |
| 25° | 367.9 | 367.9 | 373.1 | 365.7 | 361.2 | 353.8 | 350.8 | 351.6 | 352.3 | 344.9 | 329.3 |
| 27.5° | 389.4 | 385.7 | 390.9 | 387.2 | 385.0 | 376.8 | 373.1 | 375.3 | 373.8 | 365.7 | 344.2 |
| 30° | 416.9 | 417.6 | 414.6 | 409.4 | 406.5 | 400.5 | 398.3 | 396.1 | 398.3 | 387.9 | 360.5 |
| 32.5° | 451.0 | 453.2 | 445.8 | 439.9 | 434.7 | 428.7 | 424.3 | 422.1 | 424.3 | 408.7 | 373.1 |
| 35° | 490.3 | 492.5 | 486.6 | 479.9 | 474.0 | 459.1 | 455.4 | 451.7 | 443.6 | 418.3 | 385.0 |
| 37.5° | 526.6 | 523.7 | 522.2 | 522.2 | 511.1 | 489.6 | 487.3 | 485.1 | 469.5 | 437.6 | 401.3 |
| 40° | 551.1 | 554.8 | 553.3 | 551.9 | 550.4 | 530.4 | 525.9 | 522.2 | 496.2 | 466.6 | 424.3 |
| 42.5° | 578.6 | 576.3 | 582.3 | 584.5 | 579.3 | 573.4 | 555.6 | 543.0 | 520.0 | 496.2 | 458.4 |
| 45° | 611.2 | 609.7 | 611.9 | 620.1 | 612.7 | 614.9 | 585.2 | 576.3 | 547.4 | 533.3 | 501.4 |
| 47.5° | 640.1 | 643.8 | 655.0 | 657.2 | 651.3 | 661.6 | 620.1 | 606.0 | 587.5 | 576.3 | 545.9 |
| 50° | 652.7 | 657.2 | 682.4 | 698.0 | 698.7 | 715.1 | 655.0 | 649.0 | 623.8 | 628.3 | 601.6 |
| 52.5° | 642.4 | 656.5 | 686.9 | 727.7 | 752.9 | 769.2 | 701.0 | 698.0 | 675.0 | 689.1 | 662.4 |
| 55° | 652.0 | 665.4 | 685.4 | 742.5 | 806.3 | 810.0 | 764.7 | 753.6 | 730.6 | 749.9 | 725.4 |
| 57.5° | 656.5 | 649.0 | 686.9 | 758.8 | 845.6 | 855.2 | 825.6 | 817.4 | 799.6 | 818.2 | 804.1 |
| 60° | 621.6 | 630.5 | 666.1 | 754.4 | 847.8 | 903.5 | 893.8 | 881.9 | 865.6 | 882.7 | 874.5 |
| 62.5° | 582.3 | 588.2 | 626.8 | 727.7 | 860.4 | 938.3 | 959.8 | 950.9 | 927.9 | 942.8 | 956.9 |
| 65° | 532.6 | 533.3 | 576.3 | 680.2 | 836.0 | 958.3 | 1017.7 | 1016.9 | 1000.6 | 996.9 | 1019.2 |
| 67.5° | 471.8 | 477.7 | 511.8 | 629.7 | 802.6 | 980.6 | 1074.8 | 1085.9 | 1053.3 | 1024.4 | 1032.5 |
| 70° | 362.0 | 367.9 | 400.5 | 516.3 | 734.3 | 973.9 | 1145.3 | 1151.2 | 1087.4 | 1014.0 | 993.2 |
| 72.5° | 188.4 | 189.9 | 223.3 | 311.5 | 520.7 | 864.9 | 1171.2 | 1186.8 | 1096.3 | 983.6 | 885.7 |
| 75° | 62.3 | 62.3 | 76.4 | 118.7 | 245.5 | 553.3 | 1060.7 | 1088.9 | 1052.5 | 907.9 | 724.7 |
| 77.5° | 37.1 | 37.8 | 45.2 | 59.3 | 97.9 | 221.0 | 747.7 | 797.4 | 861.2 | 772.2 | 529.6 |
| 80° | 26.7 | 27.4 | 34.1 | 40.8 | 58.6 | 71.2 | 375.3 | 444.3 | 528.9 | 497.0 | 282.6 |
| 82.5° | 20.0 | 20.0 | 26.7 | 30.4 | 40.1 | 42.3 | 104.6 | 143.2 | 228.5 | 178.0 | 77.9 |
| 85° | 20.8 | 20.8 | 20.8 | 21.5 | 27.4 | 24.5 | 43.8 | 46.7 | 66.8 | 58.6 | 21.5 |
| 87.5° | 7.4 | 8.2 | 20.8 | 14.1 | 14.1 | 10.4 | 17.1 | 18.5 | 23.7 | 24.5 | 8.2 |
| 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° | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 | 240.3 |
| 2.5° | 241.1 | 241.1 | 241.8 | 241.8 | 243.3 | 244.8 | 247.0 | 245.5 | 245.5 | 246.3 | 245.5 |
| 5° | 240.3 | 241.1 | 243.3 | 247.0 | 248.5 | 249.2 | 253.7 | 253.7 | 253.7 | 255.2 | 255.2 |
| 7.5° | 243.3 | 244.8 | 248.5 | 252.2 | 252.9 | 255.2 | 261.1 | 262.6 | 266.3 | 267.8 | 268.5 |
| 10° | 250.7 | 252.9 | 255.9 | 260.4 | 263.3 | 266.3 | 270.7 | 275.9 | 275.2 | 279.6 | 280.4 |
| 12.5° | 261.8 | 261.1 | 266.3 | 270.7 | 273.7 | 278.2 | 279.6 | 279.6 | 279.6 | 279.6 | 281.1 |
| 15° | 270.7 | 272.2 | 276.7 | 279.6 | 283.3 | 282.6 | 279.6 | 276.7 | 277.4 | 276.7 | 276.7 |
| 17.5° | 284.1 | 284.1 | 287.8 | 288.5 | 290.0 | 282.6 | 278.2 | 278.2 | 280.4 | 280.4 | 278.9 |
| 20° | 297.4 | 296.7 | 298.2 | 297.4 | 287.8 | 278.9 | 278.2 | 278.9 | 279.6 | 278.9 | 278.2 |
| 22.5° | 310.1 | 308.6 | 306.3 | 303.4 | 286.3 | 278.2 | 276.7 | 273.0 | 269.3 | 269.3 | 267.0 |
| 25° | 321.2 | 319.7 | 313.8 | 304.9 | 285.6 | 273.7 | 266.3 | 257.4 | 252.9 | 250.7 | 253.7 |
| 27.5° | 331.6 | 328.6 | 320.4 | 304.9 | 278.9 | 261.8 | 247.7 | 236.6 | 232.9 | 229.9 | 232.9 |
| 30° | 345.7 | 340.5 | 329.3 | 302.6 | 268.5 | 243.3 | 224.0 | 210.7 | 206.9 | 202.5 | 204.0 |
| 32.5° | 358.3 | 346.4 | 336.8 | 296.0 | 255.2 | 222.5 | 200.3 | 186.9 | 180.2 | 176.5 | 179.5 |
| 35° | 371.6 | 359.8 | 339.7 | 285.6 | 234.4 | 197.3 | 175.1 | 162.4 | 157.3 | 152.1 | 152.1 |
| 37.5° | 385.0 | 378.3 | 344.2 | 266.3 | 209.2 | 173.6 | 153.5 | 143.9 | 135.0 | 125.4 | 125.4 |
| 40° | 413.2 | 404.3 | 349.4 | 244.0 | 184.0 | 150.6 | 136.5 | 123.9 | 115.0 | 101.6 | 100.9 |
| 42.5° | 442.8 | 423.5 | 349.4 | 217.3 | 161.7 | 134.3 | 120.9 | 107.6 | 91.2 | 83.1 | 83.8 |
| 45° | 480.7 | 458.4 | 339.7 | 193.6 | 139.4 | 120.9 | 106.1 | 89.0 | 81.6 | 76.4 | 76.4 |
| 47.5° | 528.1 | 493.3 | 327.9 | 167.6 | 121.6 | 109.0 | 90.5 | 80.1 | 74.9 | 70.5 | 69.7 |
| 50° | 584.5 | 525.2 | 313.0 | 145.4 | 106.8 | 97.9 | 82.3 | 74.2 | 69.7 | 66.8 | 66.8 |
| 52.5° | 643.8 | 571.9 | 302.6 | 125.4 | 94.9 | 83.1 | 76.4 | 71.2 | 67.5 | 65.3 | 64.5 |
| 55° | 703.9 | 618.6 | 295.2 | 103.8 | 83.8 | 76.4 | 74.9 | 70.5 | 69.0 | 66.8 | 65.3 |
| 57.5° | 771.4 | 657.2 | 293.7 | 89.0 | 74.9 | 73.4 | 76.4 | 72.7 | 70.5 | 68.2 | 66.0 |
| 60° | 844.1 | 709.1 | 280.4 | 77.1 | 70.5 | 72.0 | 74.2 | 70.5 | 69.0 | 66.8 | 65.3 |
| 62.5° | 916.1 | 747.7 | 244.0 | 68.2 | 66.0 | 67.5 | 70.5 | 67.5 | 65.3 | 66.0 | 66.8 |
| 65° | 945.7 | 750.7 | 189.1 | 61.6 | 60.8 | 61.6 | 66.0 | 65.3 | 63.0 | 67.5 | 67.5 |
| 67.5° | 916.1 | 724.0 | 133.5 | 55.6 | 55.6 | 59.3 | 66.8 | 68.2 | 66.0 | 72.0 | 71.2 |
| 70° | 848.6 | 657.9 | 90.5 | 51.9 | 53.4 | 63.0 | 69.0 | 67.5 | 64.5 | 72.0 | 70.5 |
| 72.5° | 720.2 | 526.6 | 66.0 | 48.2 | 50.4 | 60.1 | 68.2 | 66.8 | 64.5 | 67.5 | 64.5 |
| 75° | 540.7 | 374.6 | 51.9 | 43.8 | 44.5 | 54.1 | 70.5 | 66.8 | 60.8 | 59.3 | 57.1 |
| 77.5° | 361.2 | 231.4 | 40.1 | 38.6 | 38.6 | 47.5 | 67.5 | 62.3 | 54.9 | 52.7 | 51.9 |
| 80° | 172.1 | 92.7 | 31.9 | 32.6 | 33.4 | 40.8 | 61.6 | 55.6 | 49.7 | 46.7 | 46.7 |
| 82.5° | 54.9 | 34.9 | 26.7 | 26.7 | 26.7 | 33.4 | 51.2 | 46.7 | 43.0 | 40.8 | 37.1 |
| 85° | 19.3 | 19.3 | 23.0 | 23.7 | 21.5 | 24.5 | 42.3 | 40.1 | 35.6 | 29.7 | 28.9 |
| 87.5° | 7.4 | 11.1 | 15.6 | 18.5 | 13.4 | 17.1 | 30.4 | 28.2 | 26.0 | 19.3 | 18.5 |
| 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)