

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: P675510

Luminaire Tested: **CCW-SA-1A-722-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675510
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-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL3 distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

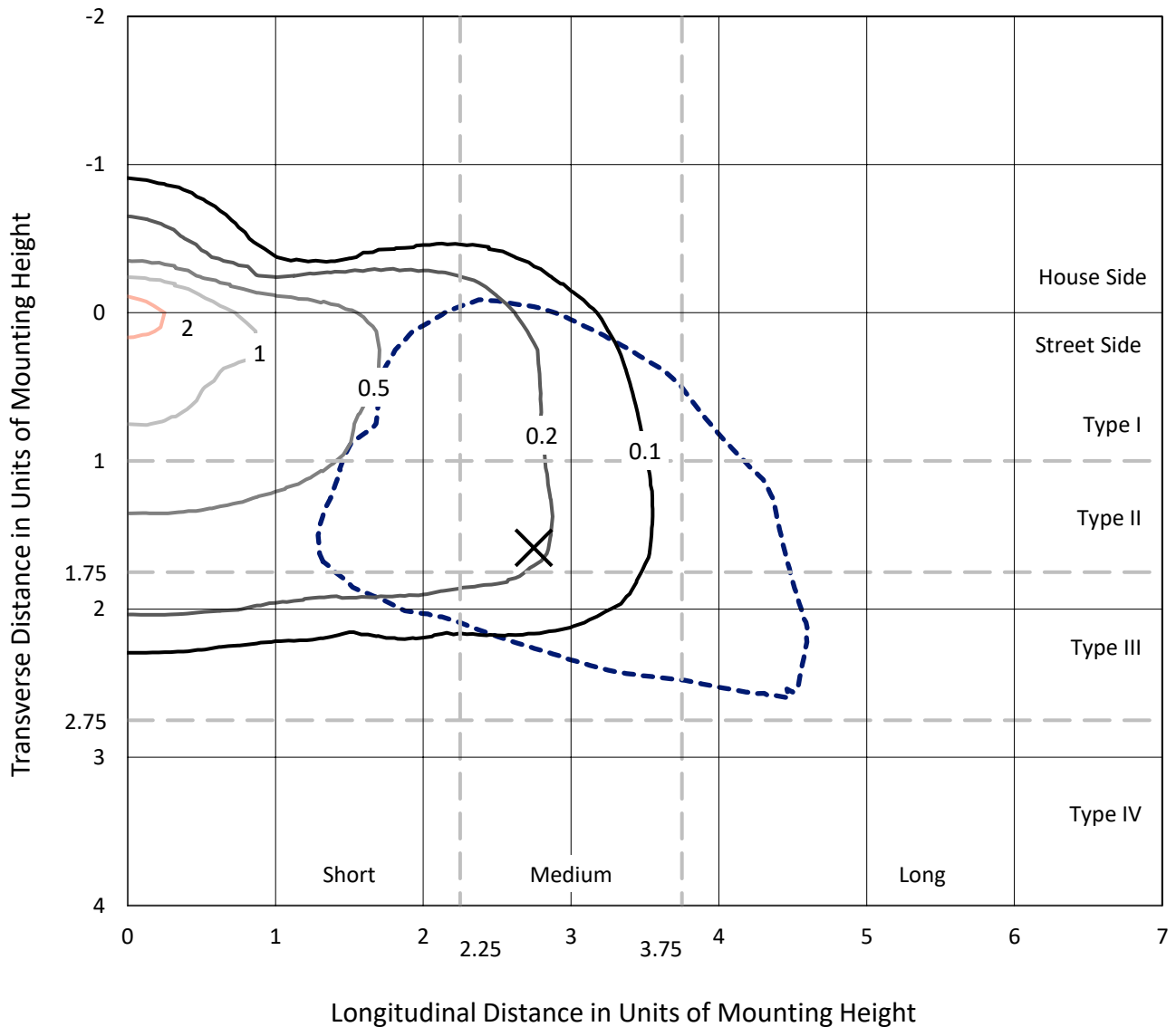
Lumens per Lamp: N/A
Luminaire Lumens: 1992.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

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

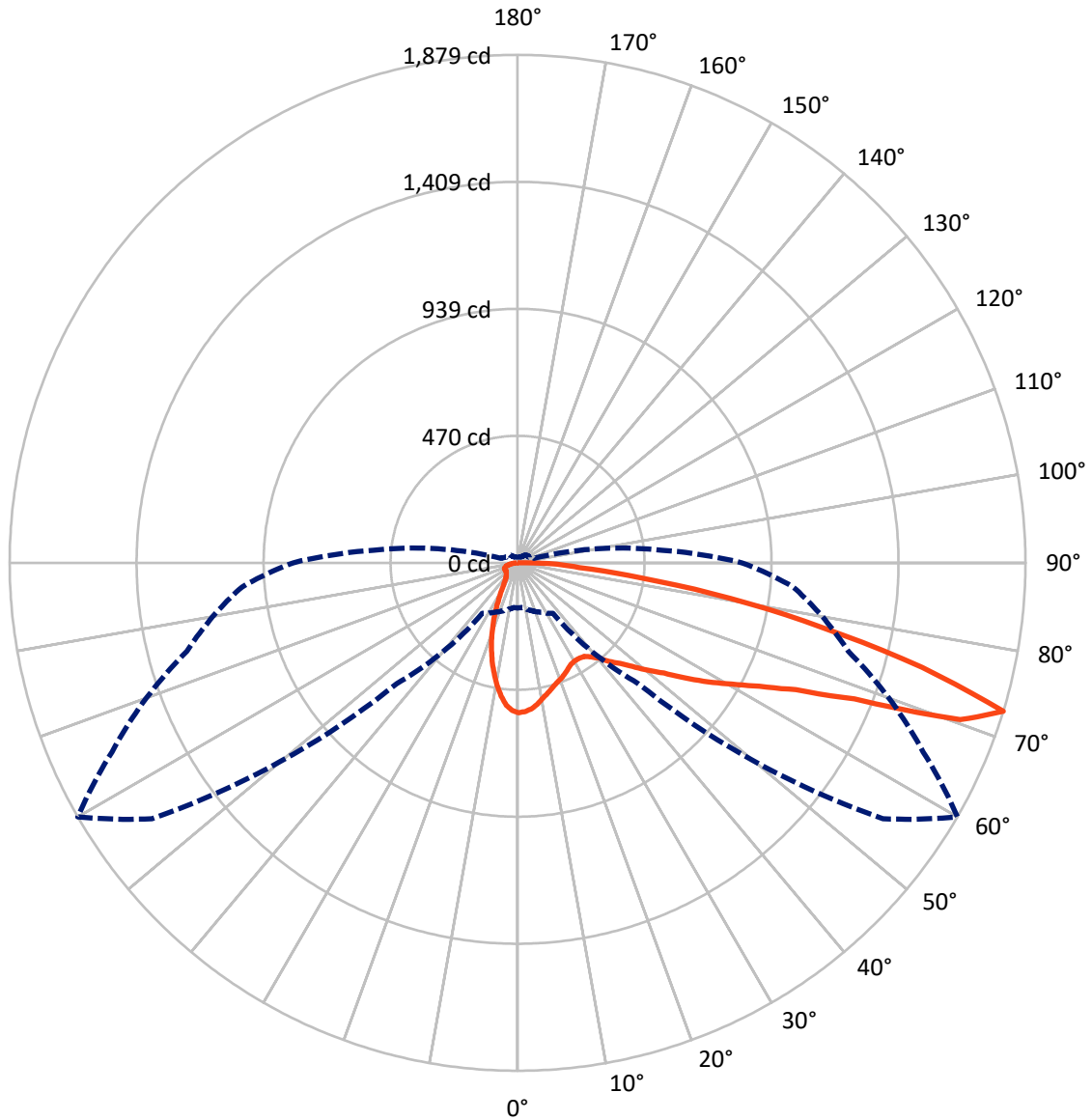
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 342.3 | 0.0 | 342.3 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 1650.2 | 0.0 | 1650.2 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 1992.5 | 0.0 | 1992.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.1 | 2.4 |
| 10°-20° | 109.1 | 5.5 |
| 20°-30° | 139.6 | 7.0 |
| 30°-40° | 178.5 | 9.0 |
| 40°-50° | 244.9 | 12.3 |
| 50°-60° | 354.2 | 17.8 |
| 60°-70° | 485.9 | 24.4 |
| 70°-80° | 364.6 | 18.3 |
| 80°-90° | 67.8 | 3.4 |
| 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° | 1992.5 | 100.0 |
| 0°-180° | 1992.5 | 100.0 |

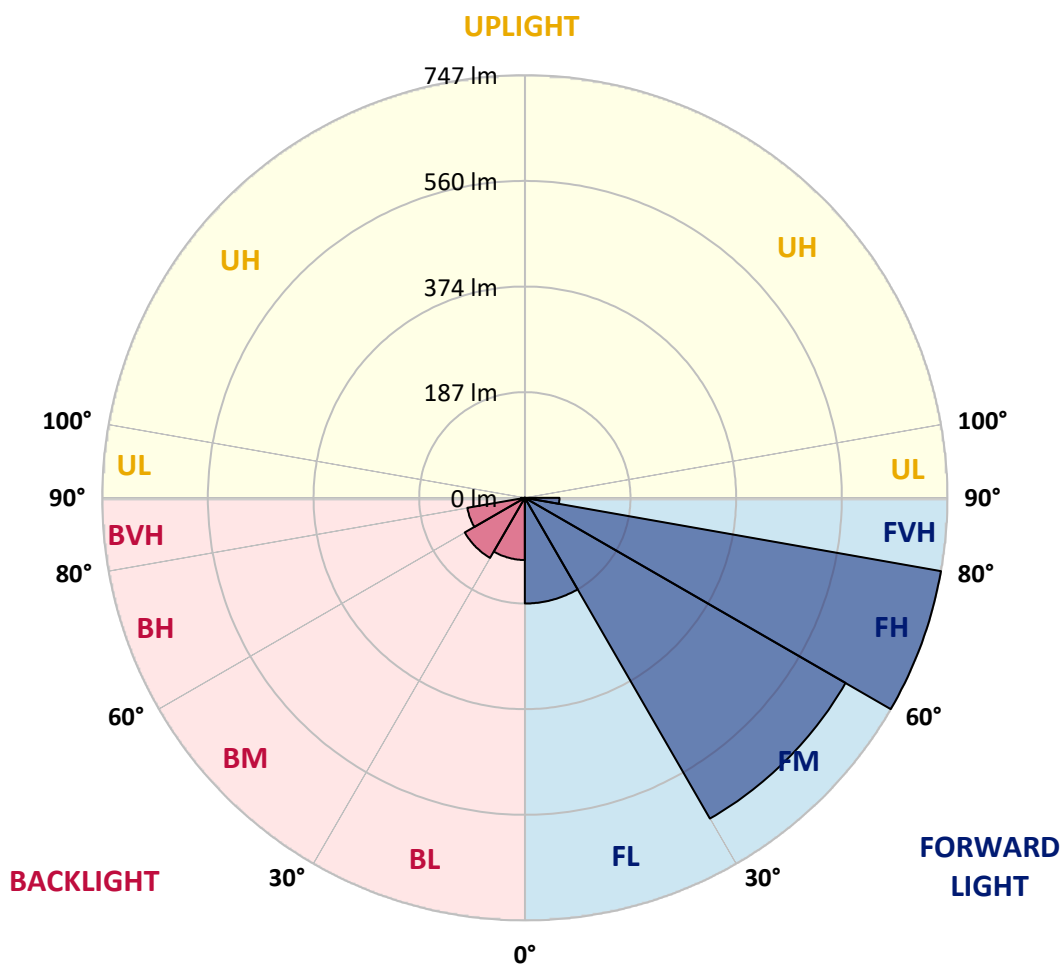


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 186.8 | 9.4 | | | |
| FM (30°-60°) | 654.9 | 32.9 | | | |
| FH (60°-80°) | 747.3 | 37.5 | | | G1/1800 |
| FVH (80°-90°) | 61.2 | 3.1 | | | G1/100 |
| BL (0°-30°) | 109.9 | 5.5 | B0/110 | | |
| BM (30°-60°) | 122.7 | 6.2 | B0/220 | | |
| BH (60°-80°) | 103.1 | 5.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 6.6 | 0.3 | | | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 |
| 2.5° | 542.9 | 548.1 | 549.6 | 549.6 | 554.1 | 548.9 | 556.3 | 550.4 | 551.8 | 554.1 | 552.6 |
| 5° | 517.0 | 525.9 | 520.7 | 530.3 | 526.6 | 533.3 | 542.2 | 542.2 | 540.0 | 544.4 | 540.7 |
| 7.5° | 491.8 | 488.8 | 497.7 | 497.7 | 503.6 | 512.5 | 520.0 | 527.4 | 528.1 | 529.6 | 528.9 |
| 10° | 457.6 | 461.4 | 465.8 | 471.7 | 479.2 | 488.1 | 503.6 | 509.6 | 511.1 | 520.0 | 517.7 |
| 12.5° | 429.5 | 434.7 | 437.6 | 449.5 | 456.2 | 468.8 | 486.6 | 494.7 | 495.5 | 508.1 | 508.1 |
| 15° | 408.7 | 411.7 | 418.3 | 422.8 | 437.6 | 455.4 | 472.5 | 479.9 | 488.1 | 501.4 | 497.7 |
| 17.5° | 394.6 | 398.3 | 401.3 | 407.2 | 421.3 | 436.1 | 462.8 | 467.3 | 476.9 | 496.2 | 491.8 |
| 20° | 386.4 | 387.2 | 391.6 | 395.3 | 408.0 | 422.0 | 445.8 | 457.6 | 470.3 | 487.3 | 482.9 |
| 22.5° | 387.9 | 385.0 | 384.2 | 389.4 | 391.6 | 405.0 | 433.9 | 446.5 | 464.3 | 484.4 | 476.9 |
| 25° | 390.9 | 391.6 | 390.2 | 385.7 | 386.4 | 398.3 | 417.6 | 433.9 | 453.9 | 483.6 | 468.8 |
| 27.5° | 398.3 | 402.0 | 396.1 | 391.6 | 387.2 | 391.6 | 411.7 | 423.5 | 445.8 | 487.3 | 468.0 |
| 30° | 405.7 | 409.4 | 408.0 | 401.3 | 392.4 | 390.9 | 405.0 | 419.8 | 441.3 | 490.3 | 468.0 |
| 32.5° | 416.9 | 422.0 | 416.9 | 419.1 | 408.7 | 402.0 | 407.2 | 420.6 | 445.8 | 500.7 | 468.8 |
| 35° | 429.5 | 433.9 | 435.4 | 430.2 | 428.0 | 415.4 | 418.3 | 425.0 | 450.2 | 512.5 | 476.2 |
| 37.5° | 443.6 | 448.7 | 453.2 | 453.9 | 446.5 | 439.1 | 437.6 | 441.3 | 461.4 | 533.3 | 484.4 |
| 40° | 453.2 | 456.2 | 465.1 | 472.5 | 474.7 | 464.3 | 463.6 | 463.6 | 481.4 | 551.8 | 499.2 |
| 42.5° | 469.5 | 468.0 | 480.6 | 494.0 | 497.7 | 491.8 | 493.3 | 499.2 | 509.6 | 578.6 | 522.9 |
| 45° | 477.7 | 476.2 | 491.0 | 513.3 | 530.3 | 527.4 | 528.9 | 531.1 | 540.7 | 620.8 | 563.0 |
| 47.5° | 488.8 | 490.3 | 511.8 | 537.0 | 554.8 | 565.2 | 573.4 | 572.6 | 580.0 | 663.8 | 607.5 |
| 50° | 499.9 | 502.9 | 528.9 | 555.6 | 586.7 | 604.5 | 616.4 | 624.5 | 632.0 | 709.1 | 658.7 |
| 52.5° | 521.4 | 524.4 | 553.3 | 582.3 | 622.3 | 648.3 | 677.9 | 677.2 | 677.9 | 754.3 | 709.8 |
| 55° | 552.6 | 553.3 | 570.4 | 603.8 | 657.9 | 705.4 | 746.2 | 750.6 | 738.0 | 810.7 | 768.4 |
| 57.5° | 588.2 | 591.2 | 606.0 | 631.2 | 686.1 | 760.3 | 822.6 | 831.5 | 797.4 | 856.7 | 821.8 |
| 60° | 621.6 | 623.8 | 646.8 | 675.7 | 735.1 | 829.3 | 899.7 | 910.1 | 873.0 | 913.1 | 877.5 |
| 62.5° | 583.7 | 594.9 | 635.7 | 701.7 | 821.1 | 933.8 | 997.6 | 1004.3 | 946.4 | 970.2 | 936.8 |
| 65° | 467.3 | 474.7 | 533.3 | 640.1 | 827.0 | 1123.7 | 1148.9 | 1131.1 | 1047.3 | 1043.6 | 1026.6 |
| 67.5° | 260.3 | 266.3 | 306.3 | 418.3 | 696.5 | 1194.9 | 1474.6 | 1344.0 | 1203.8 | 1154.1 | 1148.2 |
| 70° | 205.5 | 206.9 | 212.1 | 235.1 | 386.4 | 1053.3 | 1731.2 | 1737.1 | 1459.7 | 1306.2 | 1174.2 |
| 72.5° | 166.9 | 166.1 | 181.7 | 201.8 | 228.5 | 632.0 | 1650.4 | 1878.8 | 1655.5 | 1266.1 | 1022.8 |
| 75° | 127.6 | 129.8 | 149.8 | 178.8 | 209.2 | 297.4 | 1231.3 | 1545.8 | 1551.0 | 1180.1 | 862.6 |
| 77.5° | 97.2 | 97.9 | 120.2 | 158.0 | 204.7 | 209.9 | 803.3 | 1151.9 | 1157.1 | 913.8 | 475.4 |
| 80° | 72.7 | 72.7 | 91.2 | 133.5 | 199.5 | 193.6 | 494.7 | 798.8 | 723.2 | 321.2 | 103.8 |
| 82.5° | 41.5 | 44.5 | 60.8 | 101.6 | 181.0 | 186.2 | 278.9 | 457.6 | 305.6 | 87.5 | 48.2 |
| 85° | 22.3 | 23.0 | 37.1 | 68.2 | 149.1 | 178.0 | 212.9 | 227.7 | 121.6 | 46.7 | 22.3 |
| 87.5° | 8.2 | 8.2 | 17.1 | 34.9 | 94.2 | 132.0 | 169.1 | 145.4 | 69.7 | 21.5 | 11.1 |
| 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° | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 | 554.8 |
| 2.5° | 554.1 | 551.1 | 548.9 | 551.1 | 542.9 | 539.2 | 543.7 | 541.5 | 537.0 | 534.8 | 533.3 |
| 5° | 542.9 | 539.2 | 535.5 | 533.3 | 524.4 | 515.5 | 511.1 | 502.2 | 494.7 | 497.0 | 492.5 |
| 7.5° | 531.1 | 527.4 | 516.2 | 505.9 | 488.1 | 470.3 | 462.1 | 449.5 | 445.0 | 441.3 | 439.1 |
| 10° | 516.2 | 509.6 | 492.5 | 471.7 | 445.8 | 425.8 | 405.0 | 390.2 | 374.6 | 367.9 | 370.1 |
| 12.5° | 497.7 | 494.0 | 467.3 | 435.4 | 399.1 | 365.7 | 341.2 | 317.5 | 296.7 | 285.6 | 282.6 |
| 15° | 489.5 | 478.4 | 439.8 | 397.6 | 351.6 | 310.0 | 273.7 | 232.2 | 207.7 | 195.8 | 195.8 |
| 17.5° | 480.6 | 459.9 | 413.9 | 356.0 | 303.4 | 250.0 | 198.8 | 161.0 | 141.7 | 135.0 | 135.0 |
| 20° | 466.5 | 443.6 | 383.5 | 316.7 | 252.9 | 188.4 | 142.4 | 121.6 | 115.7 | 111.3 | 112.0 |
| 22.5° | 456.2 | 428.0 | 355.3 | 278.1 | 200.3 | 140.2 | 112.0 | 105.3 | 103.1 | 101.6 | 102.4 |
| 25° | 444.3 | 409.4 | 325.6 | 236.6 | 157.2 | 110.5 | 97.2 | 94.2 | 95.7 | 96.4 | 96.4 |
| 27.5° | 434.7 | 393.9 | 295.2 | 192.1 | 118.7 | 93.5 | 87.5 | 86.8 | 89.7 | 91.2 | 92.0 |
| 30° | 428.0 | 379.8 | 265.5 | 151.3 | 94.9 | 83.1 | 80.1 | 80.1 | 83.8 | 85.3 | 86.0 |
| 32.5° | 421.3 | 367.9 | 233.6 | 115.7 | 80.8 | 74.2 | 73.4 | 74.2 | 76.4 | 76.4 | 77.1 |
| 35° | 423.5 | 356.8 | 203.2 | 93.5 | 72.7 | 68.2 | 68.2 | 68.2 | 69.0 | 69.7 | 69.7 |
| 37.5° | 428.0 | 353.8 | 170.6 | 78.6 | 66.8 | 63.8 | 63.8 | 63.0 | 63.8 | 63.0 | 63.8 |
| 40° | 432.4 | 349.4 | 140.9 | 69.7 | 63.0 | 60.8 | 60.1 | 58.6 | 57.9 | 57.9 | 58.6 |
| 42.5° | 451.0 | 355.3 | 115.7 | 63.8 | 60.1 | 58.6 | 56.4 | 54.9 | 54.1 | 54.1 | 54.1 |
| 45° | 474.7 | 366.4 | 95.7 | 60.8 | 57.9 | 54.1 | 52.7 | 51.9 | 50.4 | 51.2 | 51.9 |
| 47.5° | 510.3 | 383.5 | 83.8 | 58.6 | 55.6 | 51.2 | 49.7 | 48.2 | 48.2 | 49.7 | 49.7 |
| 50° | 557.0 | 411.7 | 76.4 | 56.4 | 53.4 | 49.0 | 46.7 | 46.0 | 46.0 | 48.2 | 48.2 |
| 52.5° | 607.5 | 444.3 | 73.4 | 55.6 | 51.2 | 46.7 | 44.5 | 43.8 | 43.8 | 46.7 | 46.7 |
| 55° | 657.9 | 484.4 | 75.7 | 55.6 | 49.7 | 44.5 | 42.3 | 40.8 | 41.5 | 43.8 | 43.8 |
| 57.5° | 713.5 | 527.4 | 86.8 | 55.6 | 48.2 | 43.8 | 40.8 | 38.6 | 39.3 | 40.1 | 40.1 |
| 60° | 774.4 | 583.7 | 106.1 | 55.6 | 47.5 | 42.3 | 38.6 | 35.6 | 35.6 | 36.3 | 36.3 |
| 62.5° | 835.9 | 639.4 | 133.5 | 56.4 | 48.2 | 41.5 | 35.6 | 32.6 | 31.9 | 32.6 | 32.6 |
| 65° | 916.8 | 728.4 | 161.0 | 56.4 | 50.4 | 40.1 | 33.4 | 29.7 | 28.9 | 28.9 | 29.7 |
| 67.5° | 1030.3 | 792.2 | 124.6 | 54.1 | 51.9 | 40.1 | 31.2 | 27.4 | 26.0 | 26.0 | 26.0 |
| 70° | 970.2 | 668.3 | 79.4 | 50.4 | 49.7 | 41.5 | 29.7 | 25.2 | 23.7 | 23.0 | 23.0 |
| 72.5° | 830.7 | 534.8 | 63.8 | 47.5 | 46.0 | 40.8 | 28.2 | 23.7 | 21.5 | 20.8 | 20.8 |
| 75° | 666.1 | 422.0 | 55.6 | 43.0 | 40.1 | 34.1 | 26.0 | 21.5 | 20.0 | 18.5 | 18.5 |
| 77.5° | 326.4 | 176.5 | 42.3 | 37.8 | 34.1 | 26.0 | 23.0 | 20.0 | 17.8 | 16.3 | 16.3 |
| 80° | 81.6 | 61.6 | 31.2 | 29.7 | 25.2 | 20.0 | 18.5 | 17.1 | 15.6 | 14.1 | 14.1 |
| 82.5° | 43.8 | 36.3 | 22.3 | 20.0 | 17.1 | 14.1 | 14.1 | 13.4 | 12.6 | 11.1 | 10.4 |
| 85° | 22.3 | 21.5 | 14.8 | 13.4 | 11.1 | 8.9 | 9.6 | 9.6 | 8.9 | 6.7 | 6.7 |
| 87.5° | 11.9 | 11.9 | 7.4 | 5.9 | 5.2 | 4.5 | 4.5 | 4.5 | 3.7 | 3.0 | 3.0 |
| 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)