

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: P676562

Luminaire Tested: **CCW-SA-1A-740-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676562
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-740-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA 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: 1964.4 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

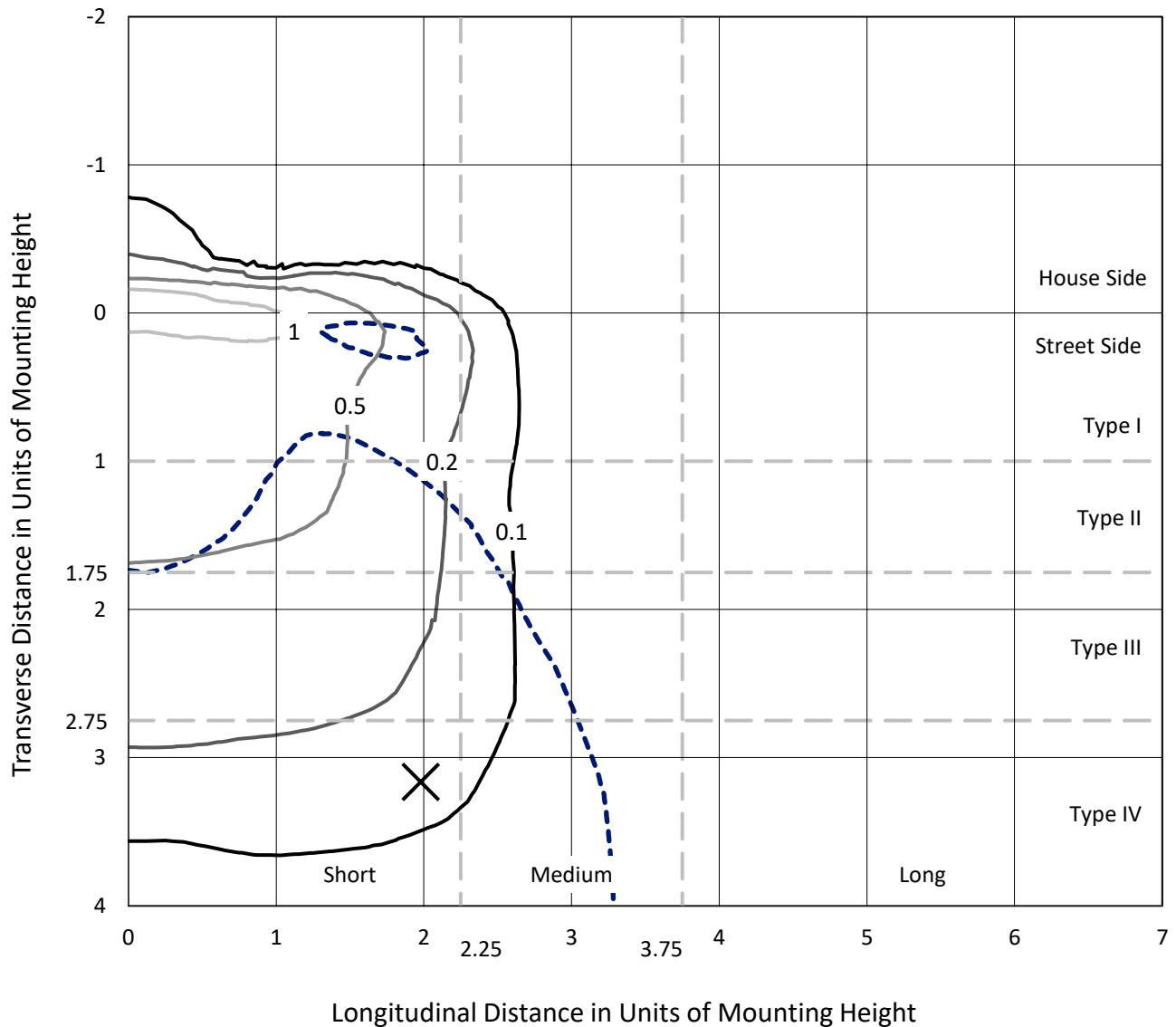
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

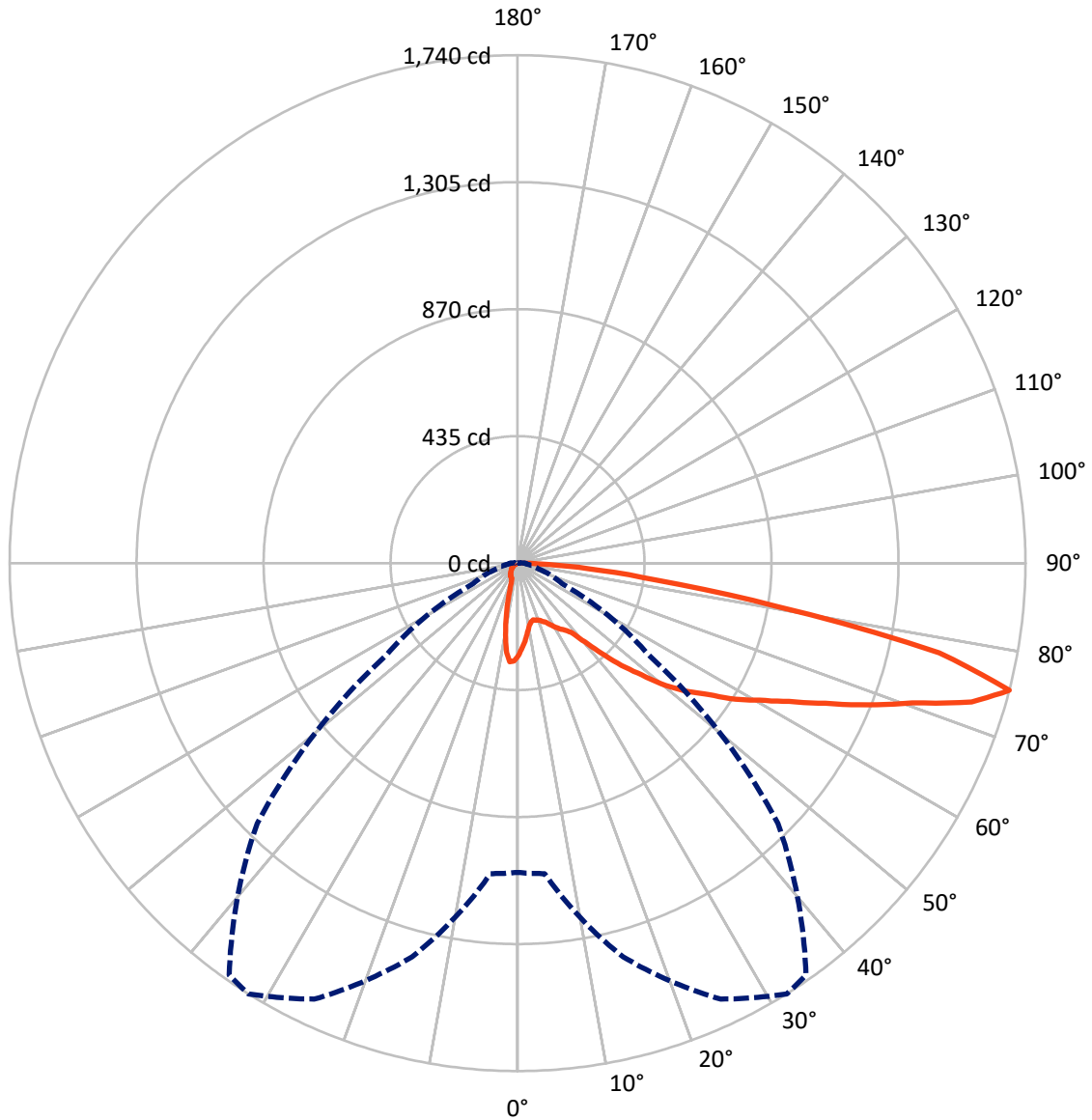
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type 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 | 212.2 | 0.0 | 212.2 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 1752.2 | 0.0 | 1752.2 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 1964.4 | 0.0 | 1964.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.9 | 1.4 |
| 10°-20° | 63.3 | 3.2 |
| 20°-30° | 94.8 | 4.8 |
| 30°-40° | 145.4 | 7.4 |
| 40°-50° | 254.4 | 12.9 |
| 50°-60° | 397.6 | 20.2 |
| 60°-70° | 514.0 | 26.2 |
| 70°-80° | 418.7 | 21.3 |
| 80°-90° | 48.5 | 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° | 1964.4 | 100.0 |
| 0°-180° | 1964.4 | 100.0 |



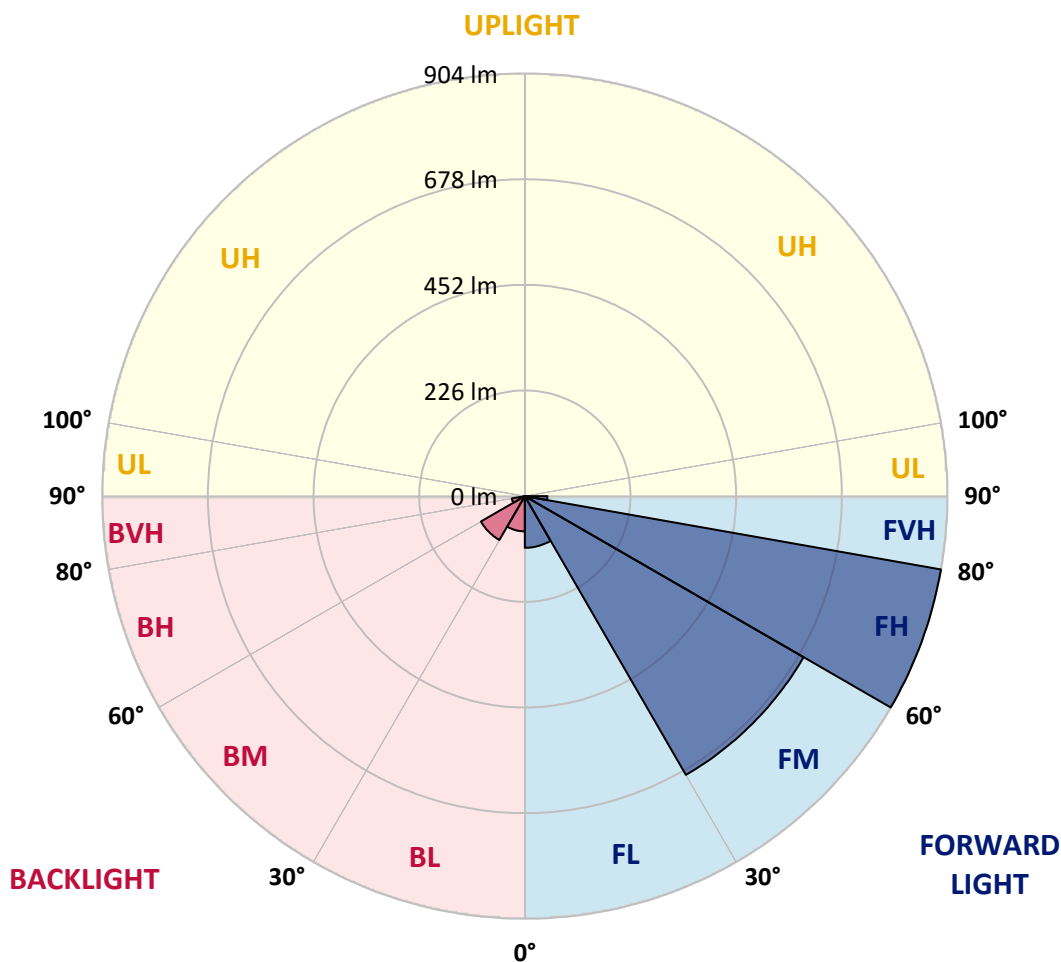
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 110.5 | 5.6 | | | |
| FM (30°-60°) | 688.8 | 35.1 | | | |
| FH (60°-80°) | 904.4 | 46.0 | | | G1/1800 |
| FVH (80°-90°) | 48.4 | 2.5 | | | G1/100 |
| BL (0°-30°) | 75.4 | 3.8 | B0/110 | | |
| BM (30°-60°) | 108.6 | 5.5 | B0/220 | | |
| BH (60°-80°) | 28.2 | 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° | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 |
| 2.5° | 284.5 | 288.5 | 288.0 | 290.5 | 291.0 | 292.5 | 296.1 | 296.1 | 306.1 | 313.2 | 317.7 |
| 5° | 258.8 | 256.3 | 257.3 | 260.3 | 267.9 | 267.4 | 275.9 | 280.4 | 292.5 | 302.6 | 313.2 |
| 7.5° | 227.1 | 226.6 | 228.6 | 235.6 | 241.2 | 245.7 | 254.8 | 266.3 | 282.5 | 297.6 | 316.2 |
| 10° | 206.9 | 205.9 | 210.0 | 212.0 | 218.5 | 221.5 | 235.6 | 253.8 | 272.9 | 294.5 | 316.2 |
| 12.5° | 202.4 | 198.9 | 200.9 | 200.4 | 206.4 | 207.9 | 221.5 | 243.7 | 266.8 | 293.5 | 320.2 |
| 15° | 204.9 | 202.4 | 200.4 | 200.4 | 201.9 | 202.9 | 217.5 | 237.1 | 263.3 | 295.0 | 329.3 |
| 17.5° | 213.0 | 211.5 | 205.4 | 199.4 | 205.9 | 205.9 | 215.0 | 235.6 | 263.8 | 299.6 | 340.4 |
| 20° | 222.5 | 221.0 | 210.5 | 203.4 | 207.9 | 213.0 | 222.5 | 239.2 | 265.3 | 303.1 | 357.5 |
| 22.5° | 233.1 | 233.1 | 218.5 | 210.5 | 216.5 | 217.0 | 234.1 | 250.2 | 271.4 | 312.2 | 368.6 |
| 25° | 246.2 | 245.2 | 231.1 | 222.0 | 224.1 | 229.6 | 245.2 | 262.3 | 282.5 | 324.7 | 389.2 |
| 27.5° | 263.3 | 261.8 | 245.2 | 236.1 | 238.7 | 244.7 | 262.3 | 279.4 | 292.5 | 329.8 | 406.8 |
| 30° | 277.4 | 275.9 | 262.3 | 248.7 | 254.3 | 259.8 | 280.4 | 295.5 | 305.1 | 339.4 | 427.0 |
| 32.5° | 280.4 | 277.9 | 268.9 | 262.8 | 268.9 | 279.4 | 295.5 | 311.2 | 325.8 | 363.5 | 465.2 |
| 35° | 315.2 | 306.1 | 282.5 | 272.9 | 282.0 | 285.5 | 312.2 | 339.9 | 354.0 | 382.7 | 508.0 |
| 37.5° | 381.6 | 373.1 | 341.9 | 315.2 | 302.6 | 306.6 | 341.4 | 375.6 | 389.2 | 418.4 | 554.8 |
| 40° | 463.2 | 449.1 | 415.9 | 380.1 | 354.5 | 349.4 | 372.1 | 422.4 | 435.5 | 463.2 | 616.3 |
| 42.5° | 556.4 | 542.8 | 491.4 | 449.1 | 422.9 | 416.4 | 419.9 | 476.8 | 487.9 | 504.5 | 656.5 |
| 45° | 623.3 | 616.3 | 558.4 | 520.6 | 500.0 | 492.9 | 484.4 | 536.2 | 550.3 | 555.8 | 715.0 |
| 47.5° | 662.1 | 657.1 | 624.8 | 599.1 | 571.5 | 563.9 | 569.4 | 618.8 | 609.2 | 613.8 | 770.8 |
| 50° | 713.9 | 700.9 | 657.1 | 665.1 | 659.6 | 657.6 | 667.1 | 688.8 | 674.7 | 661.6 | 831.8 |
| 52.5° | 755.7 | 732.6 | 701.9 | 721.5 | 730.1 | 737.6 | 771.3 | 787.5 | 724.5 | 704.4 | 871.0 |
| 55° | 781.4 | 759.3 | 767.3 | 785.4 | 794.5 | 829.2 | 869.0 | 856.9 | 757.2 | 738.6 | 923.4 |
| 57.5° | 804.6 | 806.1 | 827.7 | 833.3 | 879.6 | 885.6 | 962.2 | 922.9 | 780.4 | 769.8 | 944.0 |
| 60° | 860.5 | 854.9 | 872.5 | 908.3 | 952.6 | 986.3 | 1059.3 | 967.2 | 792.0 | 785.9 | 938.5 |
| 62.5° | 961.2 | 926.9 | 933.0 | 978.3 | 1043.2 | 1080.0 | 1115.2 | 987.3 | 789.0 | 788.5 | 921.9 |
| 65° | 1089.0 | 1049.8 | 1031.6 | 1073.9 | 1158.0 | 1209.9 | 1178.2 | 1010.0 | 768.8 | 782.9 | 860.0 |
| 67.5° | 1195.3 | 1195.8 | 1162.0 | 1185.7 | 1295.5 | 1306.5 | 1237.6 | 1005.5 | 735.1 | 739.1 | 708.9 |
| 70° | 1317.6 | 1334.2 | 1304.5 | 1378.5 | 1433.4 | 1440.5 | 1305.5 | 968.2 | 662.6 | 557.4 | 407.3 |
| 72.5° | 1348.8 | 1357.4 | 1450.0 | 1563.8 | 1625.8 | 1627.8 | 1372.5 | 843.8 | 436.0 | 246.2 | 126.4 |
| 75° | 1059.3 | 1067.4 | 1395.7 | 1647.4 | 1739.5 | 1721.9 | 1260.7 | 547.8 | 169.7 | 72.0 | 30.2 |
| 77.5° | 591.1 | 593.6 | 866.5 | 1331.7 | 1475.7 | 1404.7 | 883.1 | 213.5 | 68.5 | 41.3 | 14.1 |
| 80° | 161.6 | 189.8 | 321.2 | 656.5 | 901.2 | 884.6 | 420.4 | 69.5 | 44.3 | 32.2 | 6.5 |
| 82.5° | 38.8 | 41.8 | 103.2 | 290.5 | 476.3 | 496.9 | 125.4 | 35.2 | 30.7 | 26.7 | 3.5 |
| 85° | 14.1 | 15.6 | 31.7 | 141.5 | 244.7 | 224.6 | 37.8 | 17.6 | 22.7 | 20.6 | 1.5 |
| 87.5° | 5.0 | 5.0 | 10.1 | 46.3 | 71.5 | 53.9 | 12.6 | 6.0 | 11.6 | 12.6 | 0.5 |
| 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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 CATALOG NUMBER: CCW-SA-1A-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 | 317.2 |
| 2.5° | 318.2 | 318.2 | 325.3 | 331.3 | 333.3 | 335.8 | 333.3 | 338.8 | 338.3 | 335.8 | 336.8 |
| 5° | 318.7 | 327.8 | 333.8 | 337.8 | 339.9 | 339.4 | 340.4 | 334.3 | 330.8 | 328.3 | 325.8 |
| 7.5° | 321.2 | 329.8 | 340.9 | 339.9 | 334.3 | 322.7 | 313.7 | 297.6 | 282.0 | 281.4 | 278.9 |
| 10° | 329.8 | 337.3 | 343.9 | 339.9 | 319.7 | 284.5 | 255.8 | 234.1 | 214.5 | 205.4 | 206.4 |
| 12.5° | 335.8 | 349.9 | 346.9 | 326.3 | 284.5 | 238.1 | 195.9 | 164.1 | 146.5 | 129.9 | 129.9 |
| 15° | 348.4 | 353.4 | 352.4 | 306.6 | 241.2 | 185.8 | 134.4 | 102.2 | 83.6 | 76.0 | 75.0 |
| 17.5° | 360.5 | 366.0 | 348.9 | 276.9 | 198.4 | 124.9 | 81.6 | 63.4 | 60.9 | 59.9 | 60.4 |
| 20° | 375.6 | 376.1 | 345.9 | 247.2 | 149.0 | 79.0 | 58.4 | 56.9 | 57.4 | 56.9 | 56.9 |
| 22.5° | 391.7 | 395.2 | 335.3 | 205.4 | 99.2 | 57.4 | 54.4 | 54.9 | 54.9 | 54.9 | 56.4 |
| 25° | 412.9 | 407.3 | 318.7 | 165.6 | 64.9 | 52.9 | 52.9 | 53.4 | 53.4 | 53.4 | 53.9 |
| 27.5° | 427.0 | 419.4 | 297.6 | 119.3 | 50.9 | 49.8 | 50.9 | 50.9 | 51.9 | 51.9 | 51.9 |
| 30° | 456.2 | 436.5 | 270.9 | 77.0 | 45.8 | 47.3 | 48.3 | 49.3 | 49.8 | 50.9 | 51.4 |
| 32.5° | 478.8 | 451.6 | 237.6 | 51.4 | 41.8 | 42.8 | 45.3 | 47.3 | 49.3 | 48.8 | 48.8 |
| 35° | 520.1 | 476.3 | 206.9 | 40.8 | 38.3 | 38.3 | 40.8 | 44.3 | 47.3 | 48.3 | 48.3 |
| 37.5° | 567.4 | 496.4 | 164.1 | 37.3 | 35.2 | 35.2 | 36.8 | 40.8 | 44.8 | 46.8 | 45.8 |
| 40° | 606.7 | 519.6 | 121.3 | 34.7 | 32.7 | 32.7 | 33.7 | 36.8 | 41.3 | 44.8 | 45.3 |
| 42.5° | 634.4 | 536.7 | 82.1 | 32.2 | 30.7 | 30.2 | 31.7 | 33.2 | 36.8 | 41.8 | 42.8 |
| 45° | 659.6 | 545.8 | 50.9 | 29.7 | 28.7 | 28.7 | 28.7 | 30.2 | 32.7 | 37.3 | 38.3 |
| 47.5° | 704.4 | 555.8 | 36.8 | 27.7 | 26.2 | 26.7 | 27.2 | 27.7 | 29.7 | 30.7 | 31.2 |
| 50° | 742.1 | 563.4 | 30.2 | 25.7 | 24.7 | 25.2 | 25.2 | 25.2 | 26.2 | 24.7 | 24.7 |
| 52.5° | 770.8 | 555.8 | 25.7 | 23.7 | 22.7 | 23.2 | 22.7 | 22.7 | 21.6 | 19.6 | 19.6 |
| 55° | 792.0 | 542.3 | 20.6 | 21.6 | 21.6 | 21.6 | 20.6 | 19.1 | 17.1 | 15.6 | 15.6 |
| 57.5° | 797.5 | 519.1 | 16.1 | 18.1 | 19.6 | 19.6 | 17.6 | 15.6 | 13.1 | 11.6 | 11.1 |
| 60° | 789.0 | 468.7 | 12.1 | 13.1 | 15.1 | 15.6 | 14.1 | 11.6 | 9.1 | 7.6 | 7.6 |
| 62.5° | 758.3 | 429.0 | 9.6 | 8.6 | 11.1 | 11.6 | 10.1 | 7.6 | 5.0 | 3.5 | 3.0 |
| 65° | 699.8 | 367.5 | 7.0 | 6.0 | 7.6 | 8.1 | 6.5 | 3.5 | 1.5 | 0.5 | 0.0 |
| 67.5° | 561.4 | 276.9 | 4.5 | 4.0 | 5.0 | 5.0 | 3.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 70° | 310.7 | 155.6 | 3.0 | 2.0 | 2.5 | 1.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 89.6 | 44.3 | 1.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 24.2 | 10.6 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 10.6 | 4.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.5 | 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)