

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: P400876

Luminaire Tested: **ENC-SA1A-722-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1A-722-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1971 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

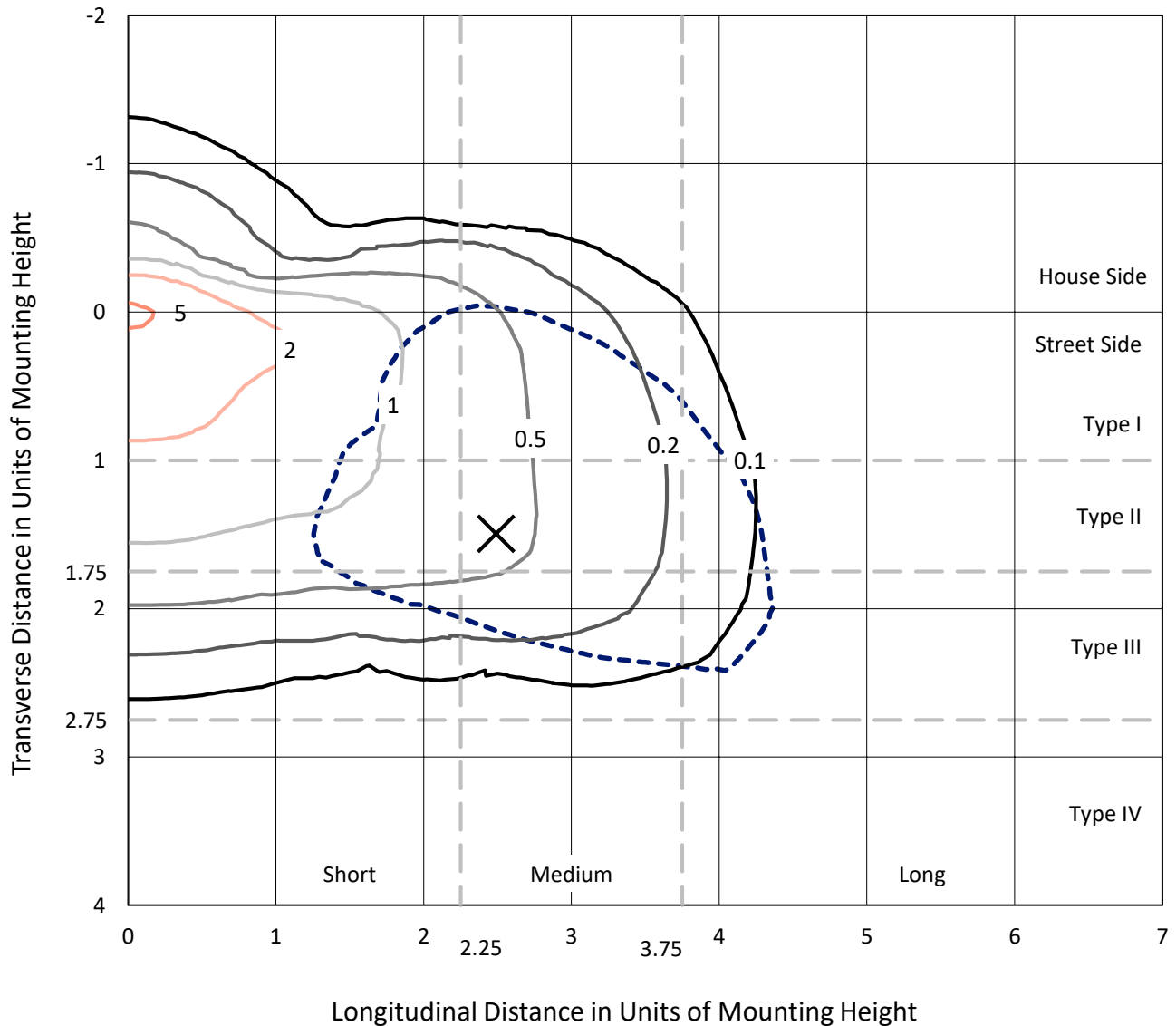
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P400876
 CATALOG NUMBER: ENC-SA1A-722-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

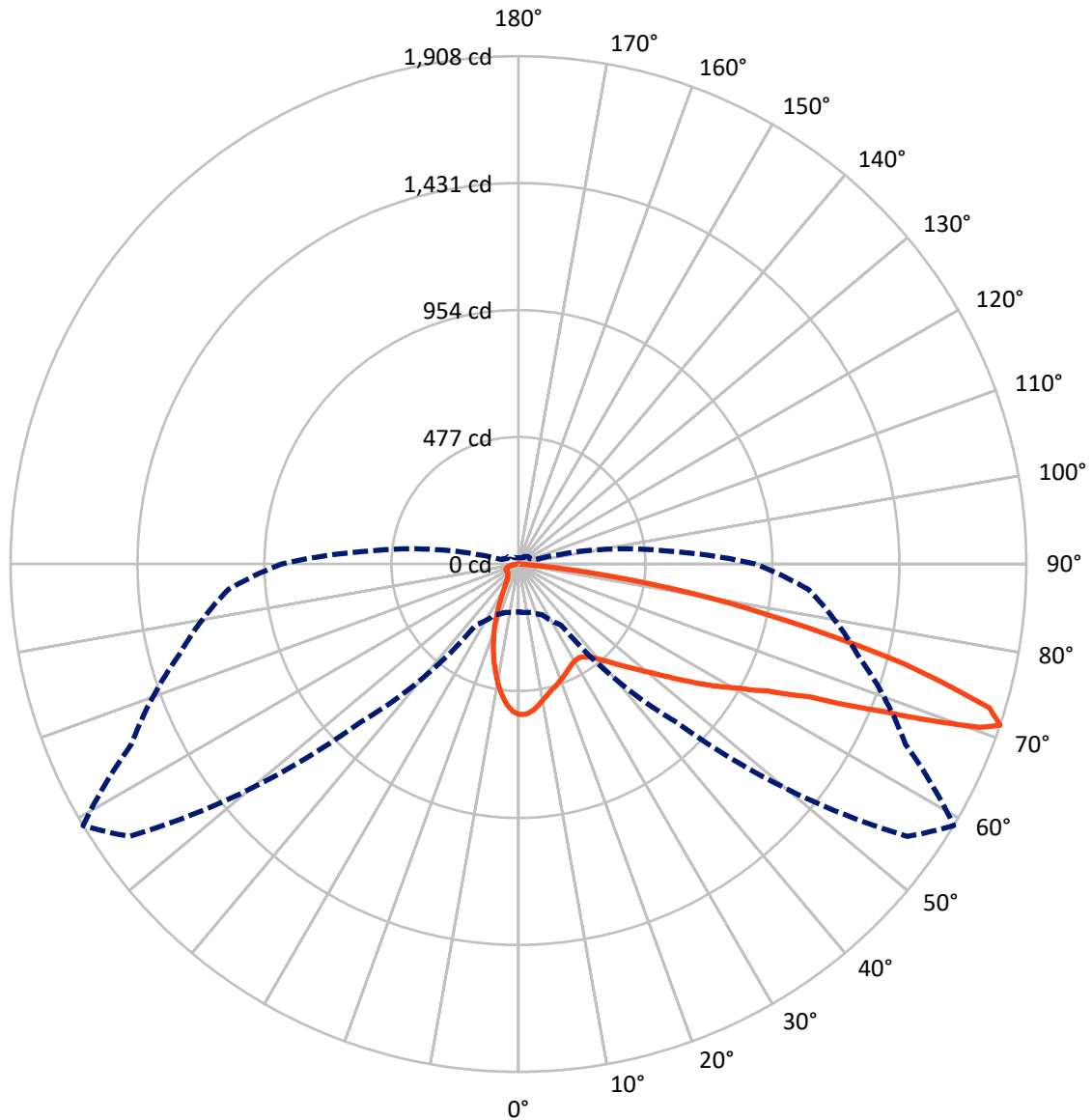


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P400876

CATALOG NUMBER: ENC-SA1A-722-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P400876

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 334.5 | 0.0 | 334.5 |
| | % Fixture | 17.0 | 0.0 | 17.0 |
| Street Side | Lumens | 1636.5 | 0.0 | 1636.5 |
| | % Fixture | 83.0 | 0.0 | 83.0 |
| Total | Lumens | 1971.0 | 0.0 | 1971.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.8 | 2.5 |
| 10°-20° | 109.8 | 5.6 |
| 20°-30° | 139.5 | 7.1 |
| 30°-40° | 178.3 | 9.0 |
| 40°-50° | 247.5 | 12.6 |
| 50°-60° | 366.4 | 18.6 |
| 60°-70° | 495.3 | 25.1 |
| 70°-80° | 351.2 | 17.8 |
| 80°-90° | 34.1 | 1.7 |
| 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° | 1971.0 | 100.0 |
| 0°-180° | 1971.0 | 100.0 |



REPORT NUMBER: P400876

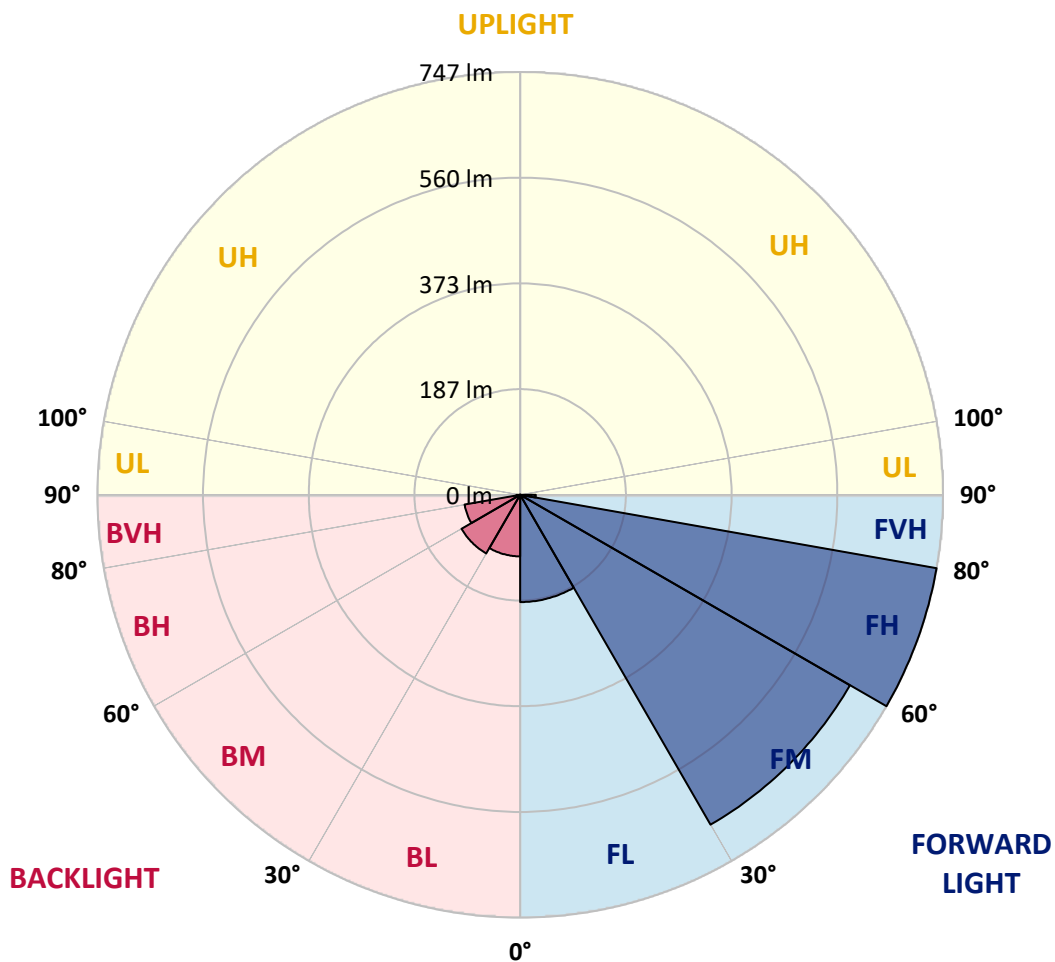
CATALOG NUMBER: ENC-SA1A-722-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 189.4 | 9.6 | | | |
| FM (30°-60°) | 672.6 | 34.1 | | | |
| FH (60°-80°) | 746.8 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 27.6 | 1.4 | | | G1/100 |
| BL (0°-30°) | 108.7 | 5.5 | B0/110 | | |
| BM (30°-60°) | 119.7 | 6.1 | B0/220 | | |
| BH (60°-80°) | 99.7 | 5.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 6.5 | 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





REPORT NUMBER: P400876

CATALOG NUMBER: ENC-SA1A-722-U-SL3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 |
| 2.5° | 560.6 | 562.6 | 563.5 | 564.9 | 564.9 | 565.5 | 564.9 | 564.6 | 565.8 | 564.6 | 561.5 |
| 5° | 535.8 | 536.6 | 539.2 | 542.1 | 544.9 | 550.9 | 552.6 | 553.8 | 556.3 | 556.9 | 553.8 |
| 7.5° | 502.1 | 505.2 | 508.6 | 512.4 | 518.4 | 526.6 | 533.8 | 536.6 | 541.5 | 544.3 | 539.8 |
| 10° | 473.5 | 475.2 | 476.9 | 483.5 | 492.9 | 504.4 | 511.8 | 517.2 | 524.9 | 528.6 | 524.3 |
| 12.5° | 445.0 | 446.4 | 449.8 | 458.7 | 468.4 | 482.1 | 495.5 | 499.8 | 508.9 | 516.4 | 512.9 |
| 15° | 423.0 | 423.0 | 425.5 | 435.2 | 445.5 | 463.8 | 479.5 | 486.1 | 497.5 | 508.1 | 503.8 |
| 17.5° | 403.5 | 404.4 | 406.1 | 412.4 | 426.7 | 445.8 | 465.8 | 474.1 | 488.4 | 502.1 | 496.4 |
| 20° | 392.7 | 392.1 | 393.3 | 396.4 | 407.8 | 428.1 | 452.1 | 461.8 | 479.5 | 498.4 | 489.2 |
| 22.5° | 389.0 | 388.4 | 387.6 | 387.3 | 394.7 | 411.8 | 437.5 | 449.5 | 471.5 | 496.4 | 482.7 |
| 25° | 391.8 | 391.8 | 389.3 | 384.4 | 387.8 | 399.5 | 424.4 | 437.2 | 462.7 | 494.9 | 476.7 |
| 27.5° | 399.5 | 399.5 | 395.8 | 389.5 | 388.1 | 393.3 | 413.0 | 426.7 | 455.2 | 495.8 | 471.8 |
| 30° | 410.1 | 409.8 | 406.1 | 400.7 | 396.4 | 394.7 | 407.5 | 420.1 | 450.1 | 499.5 | 469.5 |
| 32.5° | 422.1 | 421.5 | 419.8 | 416.1 | 411.0 | 403.5 | 408.1 | 419.3 | 449.0 | 506.1 | 469.8 |
| 35° | 436.4 | 435.5 | 436.4 | 434.4 | 429.5 | 421.5 | 418.7 | 427.5 | 454.7 | 518.4 | 474.7 |
| 37.5° | 449.0 | 448.4 | 452.7 | 453.8 | 452.7 | 442.1 | 438.4 | 444.1 | 468.1 | 537.8 | 484.7 |
| 40° | 459.5 | 460.1 | 467.8 | 476.1 | 477.8 | 468.7 | 466.1 | 470.9 | 489.8 | 561.5 | 502.6 |
| 42.5° | 471.2 | 472.9 | 484.4 | 499.2 | 504.9 | 498.9 | 500.4 | 503.8 | 517.2 | 593.7 | 528.6 |
| 45° | 482.7 | 486.4 | 502.1 | 521.2 | 535.8 | 535.8 | 540.6 | 544.1 | 552.6 | 634.3 | 566.6 |
| 47.5° | 502.6 | 505.2 | 522.4 | 545.5 | 567.8 | 574.9 | 588.3 | 587.2 | 593.7 | 678.9 | 611.2 |
| 50° | 528.6 | 532.9 | 550.3 | 574.3 | 602.6 | 622.9 | 638.3 | 640.6 | 643.2 | 724.6 | 664.0 |
| 52.5° | 564.6 | 569.8 | 584.0 | 606.3 | 639.7 | 672.9 | 705.4 | 704.0 | 700.6 | 774.2 | 724.6 |
| 55° | 600.9 | 606.3 | 619.7 | 637.7 | 677.1 | 728.0 | 781.1 | 779.1 | 763.4 | 825.1 | 780.5 |
| 57.5° | 637.7 | 642.3 | 656.3 | 672.0 | 718.6 | 793.1 | 861.1 | 862.5 | 830.2 | 881.6 | 835.9 |
| 60° | 653.2 | 660.0 | 694.6 | 724.8 | 783.1 | 865.3 | 942.7 | 946.5 | 899.6 | 938.7 | 897.0 |
| 62.5° | 583.5 | 591.7 | 648.9 | 730.5 | 871.6 | 1004.7 | 1049.0 | 1051.3 | 983.3 | 1001.9 | 963.9 |
| 65° | 431.8 | 431.5 | 490.6 | 612.9 | 853.9 | 1191.8 | 1238.3 | 1202.3 | 1087.3 | 1085.5 | 1052.1 |
| 67.5° | 247.3 | 254.7 | 273.6 | 365.6 | 650.6 | 1226.3 | 1575.3 | 1481.4 | 1271.5 | 1215.8 | 1169.8 |
| 70° | 199.3 | 197.6 | 203.3 | 227.9 | 354.7 | 1008.4 | 1795.0 | 1837.8 | 1533.1 | 1322.0 | 1143.2 |
| 71° | 179.6 | 182.2 | 187.9 | 210.2 | 279.9 | 841.4 | 1784.1 | 1907.8 | 1604.5 | 1319.2 | 1092.7 |
| 72.5° | 154.5 | 155.1 | 168.2 | 194.5 | 229.9 | 593.5 | 1649.6 | 1850.1 | 1679.3 | 1281.7 | 1018.4 |
| 75° | 105.1 | 106.5 | 127.1 | 156.5 | 209.9 | 281.9 | 1180.4 | 1496.5 | 1528.5 | 1197.8 | 841.1 |
| 77.5° | 60.3 | 61.4 | 76.3 | 114.5 | 178.8 | 198.8 | 724.6 | 1034.1 | 1099.0 | 875.9 | 451.0 |
| 80° | 31.1 | 32.6 | 42.3 | 72.3 | 136.5 | 160.8 | 415.5 | 650.3 | 625.2 | 302.7 | 104.5 |
| 82.5° | 8.3 | 9.4 | 12.3 | 26.0 | 66.0 | 104.8 | 184.2 | 269.0 | 192.2 | 62.8 | 38.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 14.6 | 38.8 | 48.3 | 26.8 | 12.3 | 10.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.9 | 1.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P400876

CATALOG NUMBER: ENC-SA1A-722-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 | 565.5 |
| 2.5° | 560.9 | 560.9 | 559.2 | 556.6 | 553.8 | 547.2 | 548.3 | 543.2 | 543.8 | 543.2 | 543.2 |
| 5° | 551.2 | 549.5 | 545.2 | 537.2 | 528.3 | 516.6 | 514.9 | 505.5 | 500.1 | 498.4 | 500.4 |
| 7.5° | 537.8 | 532.9 | 522.1 | 508.1 | 491.2 | 476.1 | 462.1 | 449.5 | 440.1 | 436.1 | 434.4 |
| 10° | 520.1 | 514.1 | 496.4 | 471.8 | 448.7 | 425.0 | 403.0 | 388.7 | 369.8 | 364.1 | 362.4 |
| 12.5° | 505.5 | 495.2 | 468.7 | 434.4 | 398.4 | 367.0 | 337.3 | 307.3 | 289.3 | 276.5 | 274.5 |
| 15° | 492.9 | 478.4 | 440.4 | 396.1 | 351.3 | 307.9 | 267.6 | 227.3 | 201.9 | 191.1 | 183.4 |
| 17.5° | 481.8 | 462.9 | 412.1 | 354.7 | 299.3 | 241.9 | 192.8 | 154.2 | 138.2 | 129.9 | 130.2 |
| 20° | 470.4 | 446.4 | 382.7 | 313.3 | 247.9 | 184.2 | 136.2 | 118.2 | 110.2 | 108.5 | 107.7 |
| 22.5° | 459.5 | 427.5 | 351.6 | 272.5 | 195.3 | 135.4 | 109.7 | 100.8 | 98.8 | 98.8 | 98.8 |
| 25° | 447.2 | 408.4 | 320.2 | 230.8 | 147.9 | 106.8 | 94.2 | 91.1 | 91.7 | 92.8 | 93.1 |
| 27.5° | 437.2 | 391.8 | 289.0 | 182.5 | 114.8 | 90.8 | 84.3 | 83.7 | 86.0 | 88.5 | 88.5 |
| 30° | 428.4 | 376.7 | 255.3 | 142.5 | 91.4 | 79.7 | 77.4 | 78.3 | 80.5 | 82.8 | 83.7 |
| 32.5° | 422.4 | 363.0 | 225.0 | 110.8 | 78.0 | 72.0 | 71.4 | 72.5 | 74.8 | 76.0 | 76.8 |
| 35° | 419.8 | 353.0 | 192.5 | 89.4 | 69.4 | 66.3 | 66.0 | 66.8 | 68.0 | 68.3 | 68.0 |
| 37.5° | 422.7 | 346.1 | 159.1 | 75.7 | 64.0 | 62.3 | 62.0 | 62.0 | 62.0 | 62.3 | 62.0 |
| 40° | 431.0 | 343.6 | 129.1 | 66.8 | 60.5 | 59.1 | 58.3 | 57.4 | 56.8 | 56.8 | 56.5 |
| 42.5° | 448.4 | 347.6 | 103.7 | 61.7 | 58.0 | 56.3 | 54.5 | 53.4 | 52.5 | 52.3 | 52.3 |
| 45° | 476.4 | 358.7 | 86.2 | 58.3 | 55.7 | 53.1 | 51.1 | 50.0 | 49.1 | 49.4 | 49.1 |
| 47.5° | 514.9 | 377.3 | 76.3 | 56.0 | 53.4 | 50.0 | 48.0 | 46.8 | 46.6 | 47.4 | 47.7 |
| 50° | 558.6 | 403.5 | 70.3 | 54.3 | 51.7 | 47.4 | 45.1 | 44.3 | 44.6 | 46.3 | 46.6 |
| 52.5° | 610.0 | 437.5 | 67.7 | 53.1 | 50.3 | 45.1 | 43.1 | 42.3 | 42.8 | 44.8 | 45.1 |
| 55° | 665.4 | 476.4 | 71.4 | 53.7 | 48.8 | 43.7 | 41.4 | 40.3 | 41.1 | 42.8 | 43.1 |
| 57.5° | 721.7 | 524.3 | 84.0 | 54.0 | 47.1 | 42.6 | 39.7 | 38.0 | 38.6 | 40.0 | 40.3 |
| 60° | 778.5 | 572.0 | 105.7 | 54.3 | 46.6 | 41.4 | 38.3 | 35.7 | 36.0 | 36.8 | 37.1 |
| 62.5° | 845.4 | 632.6 | 134.2 | 55.4 | 47.1 | 40.6 | 35.7 | 32.8 | 32.8 | 33.4 | 33.4 |
| 65° | 946.7 | 722.8 | 153.1 | 54.8 | 48.6 | 39.7 | 33.1 | 30.3 | 30.0 | 30.3 | 30.3 |
| 67.5° | 1019.6 | 734.8 | 106.8 | 51.7 | 49.4 | 40.0 | 31.7 | 28.0 | 27.4 | 27.1 | 27.1 |
| 70° | 942.5 | 618.3 | 70.5 | 48.8 | 48.0 | 40.6 | 30.6 | 26.6 | 25.4 | 24.6 | 24.3 |
| 71° | 889.1 | 557.2 | 65.4 | 47.7 | 46.8 | 40.0 | 30.0 | 25.7 | 24.6 | 24.0 | 23.7 |
| 72.5° | 809.9 | 497.2 | 60.3 | 46.0 | 44.3 | 38.8 | 29.1 | 24.8 | 23.4 | 22.6 | 22.3 |
| 75° | 640.0 | 381.3 | 52.8 | 42.3 | 38.3 | 32.0 | 26.8 | 23.1 | 21.7 | 20.6 | 20.3 |
| 77.5° | 289.3 | 151.7 | 40.6 | 36.6 | 31.1 | 25.4 | 23.4 | 21.4 | 19.7 | 18.8 | 18.6 |
| 80° | 80.8 | 57.7 | 29.7 | 28.8 | 23.4 | 19.7 | 18.8 | 18.3 | 17.7 | 16.6 | 16.6 |
| 82.5° | 37.4 | 33.7 | 21.1 | 20.3 | 16.0 | 14.0 | 14.9 | 15.1 | 15.1 | 14.0 | 13.7 |
| 85° | 10.3 | 11.1 | 9.7 | 10.9 | 10.3 | 9.4 | 10.9 | 11.7 | 12.3 | 11.1 | 10.3 |
| 87.5° | 0.9 | 2.0 | 2.6 | 4.3 | 5.1 | 5.4 | 6.9 | 8.3 | 8.6 | 6.9 | 7.1 |
| 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)