

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: P140621

Luminaire Tested: **EMM-E01-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140621
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-E01-LED-E1-5XQ-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3059.4 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

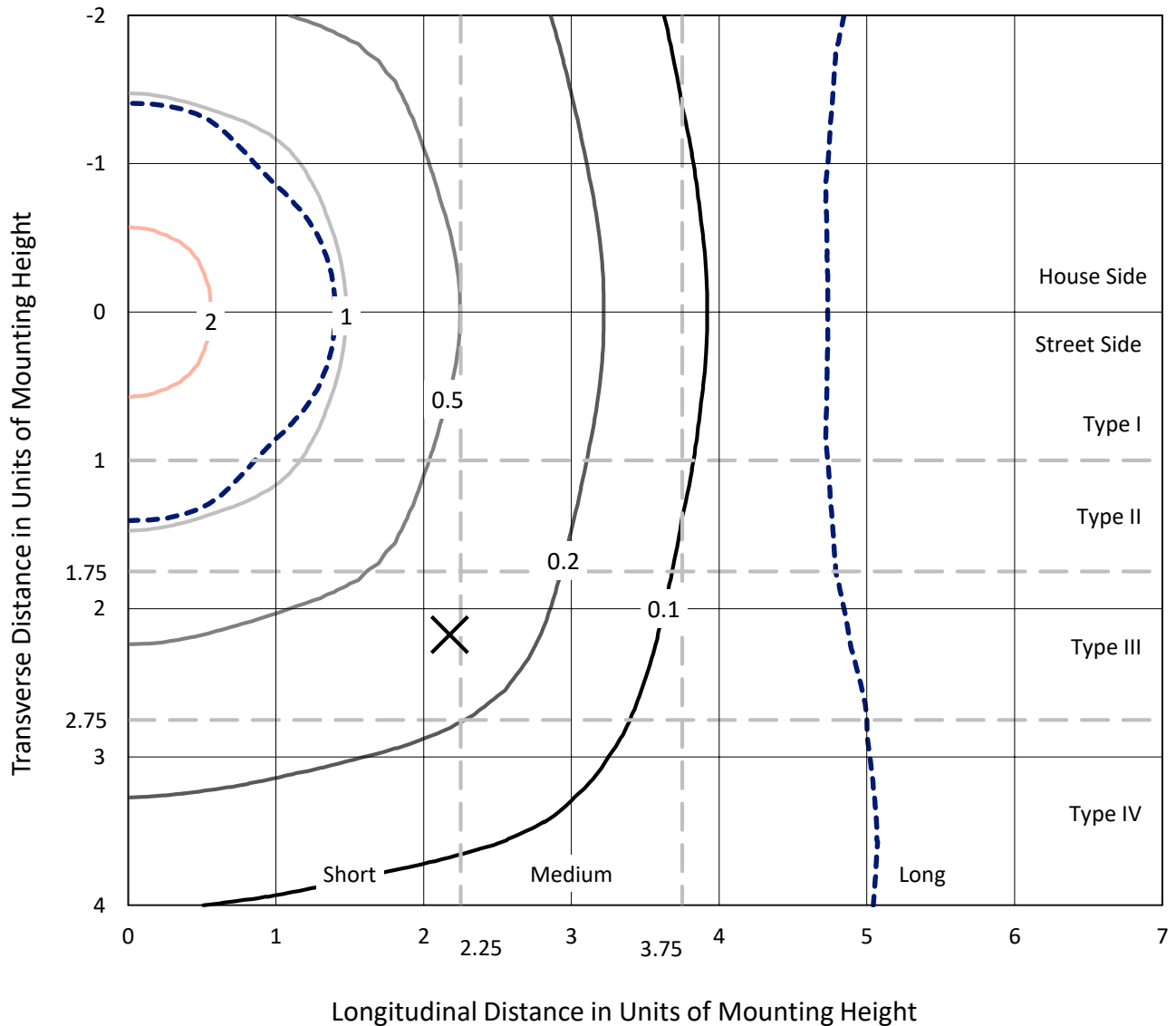
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

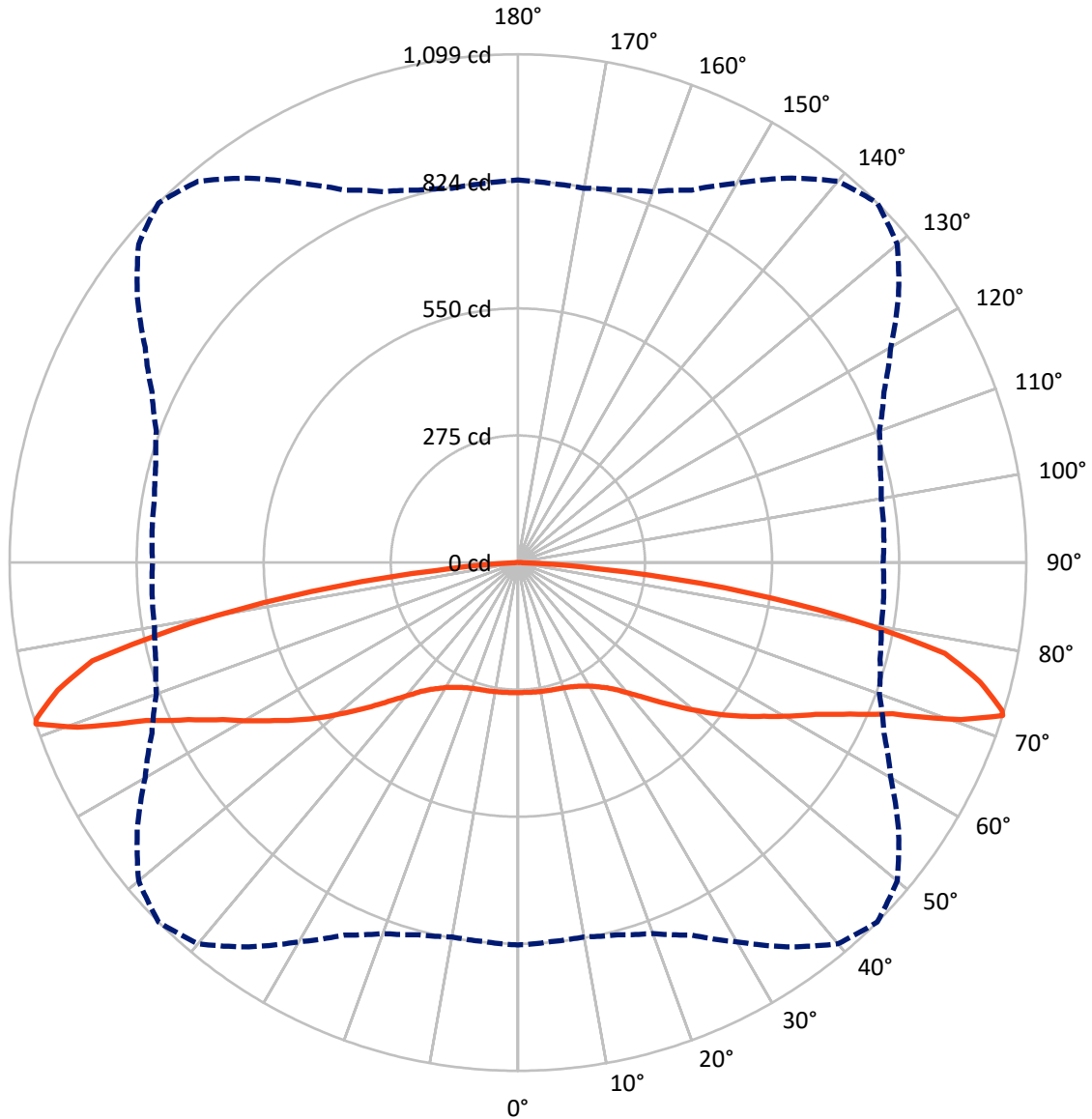
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1529.7 | 0.0 | 1529.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1529.7 | 0.0 | 1529.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3059.4 | 0.0 | 3059.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.0 | 0.9 |
| 10°-20° | 81.2 | 2.7 |
| 20°-30° | 137.3 | 4.5 |
| 30°-40° | 208.9 | 6.8 |
| 40°-50° | 330.8 | 10.8 |
| 50°-60° | 506.9 | 16.6 |
| 60°-70° | 744.2 | 24.3 |
| 70°-80° | 844.2 | 27.6 |
| 80°-90° | 178.8 | 5.8 |
| 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° | 3059.4 | 100.0 |
| 0°-180° | 3059.4 | 100.0 |



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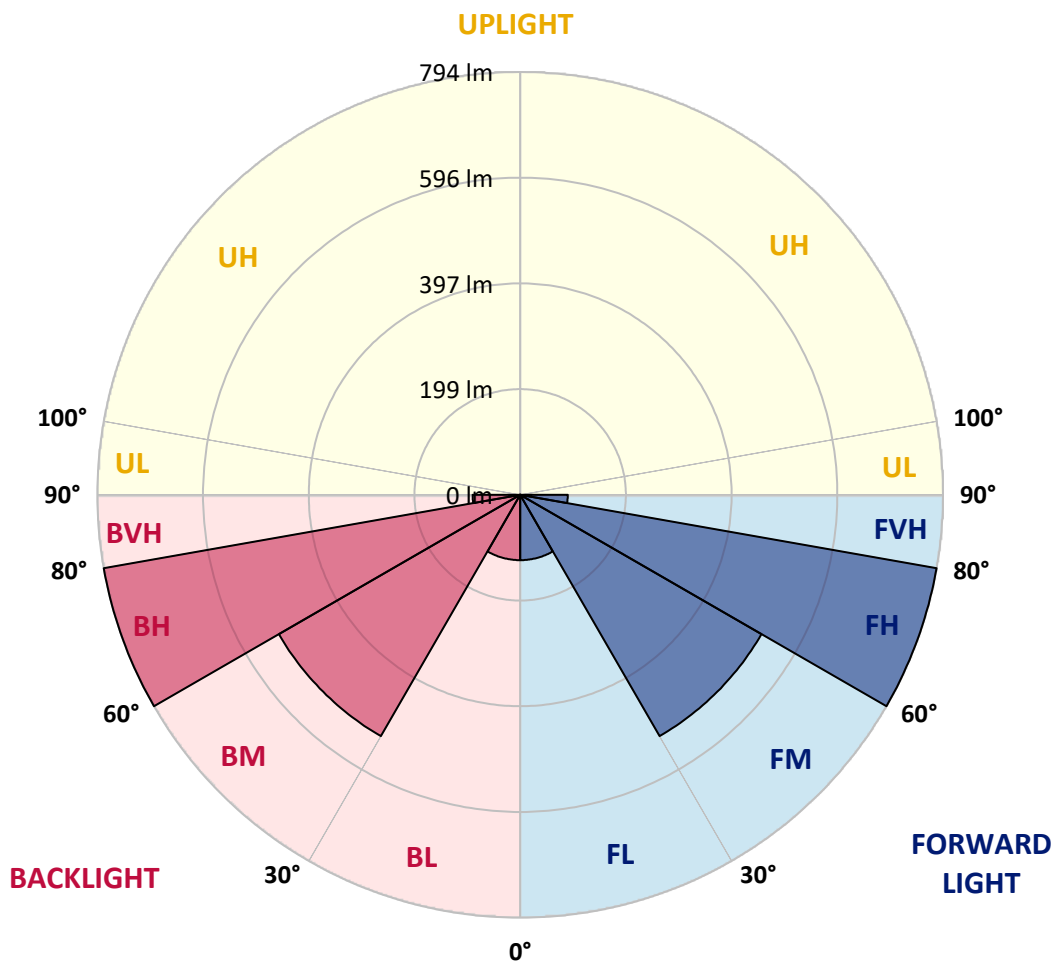
CATALOG NUMBER: EMM-E01-LED-E1-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 122.7 | 4.0 | | | |
| FM (30°-60°) | 523.3 | 17.1 | | | |
| FH (60°-80°) | 794.2 | 26.0 | | | G1/1800 |
| FVH (80°-90°) | 89.4 | 2.9 | | | G1/100 |
| BL (0°-30°) | 122.7 | 4.0 | B1/500 | | |
| BM (30°-60°) | 523.3 | 17.1 | B1/1000 | | |
| BH (60°-80°) | 794.2 | 26.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 89.4 | 2.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 |
| 2.5° | 282.2 | 282.5 | 282.2 | 281.8 | 281.8 | 281.5 | 281.5 | 281.5 | 281.8 | 281.2 | 281.2 |
| 5° | 282.9 | 283.2 | 282.9 | 282.2 | 282.2 | 282.2 | 281.8 | 281.8 | 282.2 | 281.8 | 281.8 |
| 7.5° | 283.9 | 284.2 | 283.9 | 283.2 | 283.2 | 282.9 | 282.5 | 282.5 | 283.2 | 282.5 | 282.5 |
| 10° | 284.9 | 285.6 | 284.9 | 284.2 | 284.2 | 283.9 | 283.5 | 283.5 | 283.9 | 283.2 | 283.2 |
| 12.5° | 286.6 | 286.6 | 286.3 | 285.9 | 285.9 | 285.6 | 285.3 | 284.9 | 284.6 | 284.2 | 283.9 |
| 15° | 288.0 | 288.3 | 287.7 | 287.3 | 287.0 | 286.6 | 286.3 | 286.3 | 285.6 | 285.3 | 285.3 |
| 17.5° | 289.7 | 290.0 | 289.4 | 288.7 | 288.7 | 288.0 | 287.7 | 287.7 | 287.0 | 286.6 | 286.3 |
| 20° | 291.4 | 291.8 | 291.1 | 290.7 | 290.4 | 290.0 | 289.4 | 289.7 | 289.4 | 288.7 | 288.7 |
| 22.5° | 293.5 | 293.5 | 293.1 | 292.8 | 292.8 | 292.4 | 292.1 | 292.8 | 292.1 | 292.1 | 291.8 |
| 25° | 295.5 | 295.9 | 295.5 | 295.5 | 295.9 | 295.9 | 296.2 | 296.9 | 296.9 | 296.5 | 296.2 |
| 27.5° | 300.0 | 300.0 | 300.0 | 300.0 | 301.0 | 301.0 | 301.3 | 302.4 | 302.7 | 302.7 | 302.7 |
| 30° | 305.8 | 306.1 | 305.8 | 305.8 | 306.8 | 307.1 | 308.2 | 309.2 | 309.9 | 309.9 | 310.2 |
| 32.5° | 314.3 | 314.0 | 314.3 | 315.0 | 315.7 | 316.4 | 317.4 | 319.1 | 320.1 | 320.5 | 320.5 |
| 35° | 325.3 | 325.6 | 325.3 | 325.6 | 327.0 | 328.0 | 329.0 | 331.1 | 331.8 | 332.5 | 332.8 |
| 37.5° | 341.4 | 342.4 | 341.7 | 341.7 | 343.4 | 344.1 | 345.5 | 347.2 | 348.5 | 349.2 | 348.9 |
| 40° | 364.6 | 364.3 | 363.6 | 363.9 | 364.3 | 365.0 | 366.3 | 369.7 | 371.5 | 371.5 | 371.5 |
| 42.5° | 391.3 | 391.6 | 390.6 | 390.3 | 390.6 | 391.3 | 393.3 | 396.1 | 398.8 | 398.1 | 398.5 |
| 45° | 421.7 | 419.3 | 420.0 | 419.3 | 419.7 | 422.1 | 425.5 | 426.9 | 429.6 | 429.6 | 430.3 |
| 47.5° | 451.5 | 450.5 | 450.1 | 449.8 | 450.8 | 453.2 | 457.3 | 461.7 | 464.1 | 465.5 | 466.5 |
| 50° | 485.0 | 483.3 | 483.0 | 483.3 | 483.6 | 484.3 | 492.2 | 496.6 | 502.4 | 503.5 | 503.1 |
| 52.5° | 517.5 | 516.1 | 515.4 | 515.4 | 516.8 | 519.2 | 527.4 | 534.6 | 541.1 | 545.2 | 543.5 |
| 55° | 552.7 | 552.7 | 550.7 | 550.0 | 552.0 | 554.4 | 565.7 | 573.9 | 583.2 | 586.2 | 581.5 |
| 57.5° | 589.0 | 588.6 | 585.6 | 584.5 | 586.2 | 592.4 | 602.0 | 614.6 | 624.6 | 627.3 | 624.6 |
| 60° | 624.6 | 624.6 | 622.8 | 622.2 | 623.9 | 631.4 | 643.0 | 657.0 | 669.0 | 674.2 | 669.7 |
| 62.5° | 665.3 | 665.3 | 660.8 | 662.9 | 665.3 | 671.1 | 685.8 | 703.9 | 720.0 | 722.7 | 718.6 |
| 65° | 711.4 | 713.5 | 710.1 | 709.4 | 712.5 | 723.4 | 740.2 | 763.1 | 781.9 | 789.1 | 782.9 |
| 67.5° | 781.9 | 778.8 | 774.7 | 773.0 | 777.8 | 788.0 | 808.6 | 838.7 | 866.4 | 873.2 | 866.0 |
| 70° | 855.1 | 852.0 | 850.6 | 856.1 | 866.4 | 887.9 | 919.4 | 961.5 | 1000.1 | 1016.5 | 1001.5 |
| 72° | 827.0 | 822.9 | 821.9 | 833.5 | 853.4 | 888.6 | 946.8 | 1014.5 | 1076.0 | 1099.0 | 1070.6 |
| 72.5° | 812.7 | 809.3 | 808.9 | 819.9 | 841.4 | 877.0 | 934.1 | 1003.9 | 1069.9 | 1094.9 | 1064.4 |
| 75° | 754.5 | 751.1 | 754.5 | 766.8 | 788.4 | 826.7 | 884.8 | 950.2 | 1009.7 | 1032.6 | 1002.8 |
| 77.5° | 674.2 | 668.0 | 671.1 | 688.2 | 712.1 | 753.8 | 815.4 | 892.7 | 950.2 | 944.0 | 899.9 |
| 80° | 538.0 | 524.3 | 539.0 | 544.2 | 571.5 | 599.6 | 659.1 | 693.6 | 713.5 | 714.5 | 683.0 |
| 82.5° | 235.0 | 240.5 | 258.9 | 274.3 | 293.8 | 326.3 | 350.2 | 387.5 | 431.0 | 451.1 | 426.9 |
| 85° | 15.4 | 19.2 | 30.4 | 36.3 | 50.3 | 61.2 | 87.9 | 127.9 | 154.3 | 176.5 | 148.8 |
| 87.5° | 2.7 | 3.8 | 6.8 | 8.2 | 8.9 | 9.9 | 9.9 | 13.7 | 14.4 | 11.6 | 13.0 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 | 281.2 |
| 2.5° | 281.2 | 281.2 | 281.5 | 281.2 | 281.2 | 281.2 | 280.8 | 280.8 |
| 5° | 281.5 | 281.5 | 281.8 | 281.8 | 281.5 | 281.5 | 281.5 | 281.5 |
| 7.5° | 282.5 | 282.2 | 282.5 | 282.5 | 282.2 | 282.2 | 281.8 | 282.2 |
| 10° | 282.9 | 282.9 | 283.2 | 283.2 | 282.9 | 282.9 | 282.9 | 282.9 |
| 12.5° | 283.9 | 283.9 | 283.9 | 284.2 | 283.9 | 283.9 | 284.2 | 283.9 |
| 15° | 284.9 | 284.6 | 284.6 | 284.6 | 284.6 | 284.9 | 284.9 | 285.3 |
| 17.5° | 285.9 | 285.9 | 285.6 | 285.9 | 285.9 | 286.3 | 286.3 | 286.3 |
| 20° | 288.0 | 287.7 | 287.0 | 287.7 | 287.7 | 287.7 | 287.7 | 288.0 |
| 22.5° | 291.1 | 290.4 | 289.7 | 289.7 | 289.4 | 289.7 | 289.4 | 289.4 |
| 25° | 295.5 | 294.5 | 293.5 | 293.1 | 292.8 | 292.4 | 292.1 | 292.4 |
| 27.5° | 302.0 | 300.6 | 299.3 | 298.6 | 298.3 | 297.6 | 297.2 | 297.2 |
| 30° | 309.2 | 308.2 | 306.1 | 305.4 | 304.4 | 303.4 | 303.4 | 303.0 |
| 32.5° | 320.1 | 318.8 | 316.4 | 315.4 | 313.6 | 312.6 | 312.3 | 312.3 |
| 35° | 331.4 | 329.7 | 328.7 | 327.3 | 325.3 | 324.2 | 323.9 | 323.9 |
| 37.5° | 348.5 | 346.5 | 345.1 | 343.4 | 343.1 | 341.7 | 341.7 | 341.7 |
| 40° | 370.8 | 369.1 | 367.3 | 366.0 | 365.0 | 363.9 | 362.6 | 362.6 |
| 42.5° | 398.1 | 395.4 | 394.4 | 392.7 | 391.3 | 390.3 | 389.6 | 389.6 |
| 45° | 428.2 | 425.8 | 424.5 | 422.1 | 421.7 | 421.0 | 419.7 | 419.7 |
| 47.5° | 462.1 | 458.7 | 455.9 | 455.2 | 453.5 | 451.8 | 451.1 | 451.5 |
| 50° | 499.0 | 493.2 | 489.5 | 489.5 | 487.4 | 485.0 | 485.3 | 485.0 |
| 52.5° | 537.0 | 530.5 | 525.7 | 522.3 | 519.9 | 519.6 | 519.9 | 519.6 |
| 55° | 575.3 | 568.5 | 562.6 | 558.9 | 556.5 | 554.1 | 553.8 | 553.8 |
| 57.5° | 615.0 | 606.4 | 597.2 | 593.8 | 591.4 | 590.0 | 590.0 | 590.4 |
| 60° | 659.8 | 645.8 | 634.1 | 629.7 | 628.0 | 628.7 | 628.3 | 628.7 |
| 62.5° | 705.3 | 689.2 | 675.5 | 670.4 | 668.0 | 667.7 | 670.4 | 671.4 |
| 65° | 762.7 | 742.9 | 727.5 | 717.9 | 717.9 | 716.9 | 720.0 | 718.6 |
| 67.5° | 837.6 | 809.6 | 790.8 | 775.4 | 775.7 | 776.8 | 781.2 | 780.9 |
| 70° | 965.2 | 915.6 | 880.7 | 854.4 | 844.1 | 837.3 | 835.9 | 835.9 |
| 72° | 1004.6 | 930.7 | 873.2 | 831.8 | 810.6 | 797.6 | 793.9 | 789.8 |
| 72.5° | 994.3 | 918.4 | 860.2 | 817.1 | 795.2 | 782.2 | 776.4 | 771.3 |
| 75° | 929.7 | 844.8 | 781.6 | 736.4 | 712.1 | 696.4 | 693.3 | 690.9 |
| 77.5° | 820.2 | 745.0 | 679.6 | 632.8 | 608.5 | 588.3 | 580.1 | 579.4 |
| 80° | 632.4 | 564.7 | 514.4 | 477.8 | 455.9 | 440.9 | 441.6 | 436.8 |
| 82.5° | 373.2 | 316.0 | 272.9 | 224.0 | 191.9 | 173.4 | 161.8 | 160.4 |
| 85° | 109.8 | 74.6 | 47.5 | 34.2 | 24.6 | 18.5 | 13.7 | 12.3 |
| 87.5° | 9.9 | 7.9 | 6.5 | 5.5 | 5.1 | 4.4 | 2.7 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)