

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: STREETWORKS

Report Number: P140665

Luminaire Tested: **CEM-F01-LED-E-U-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140665
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-F01-LED-E-U-5XQ
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461.3 lumens
Efficiency: N/A
Efficacy: 95.0 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

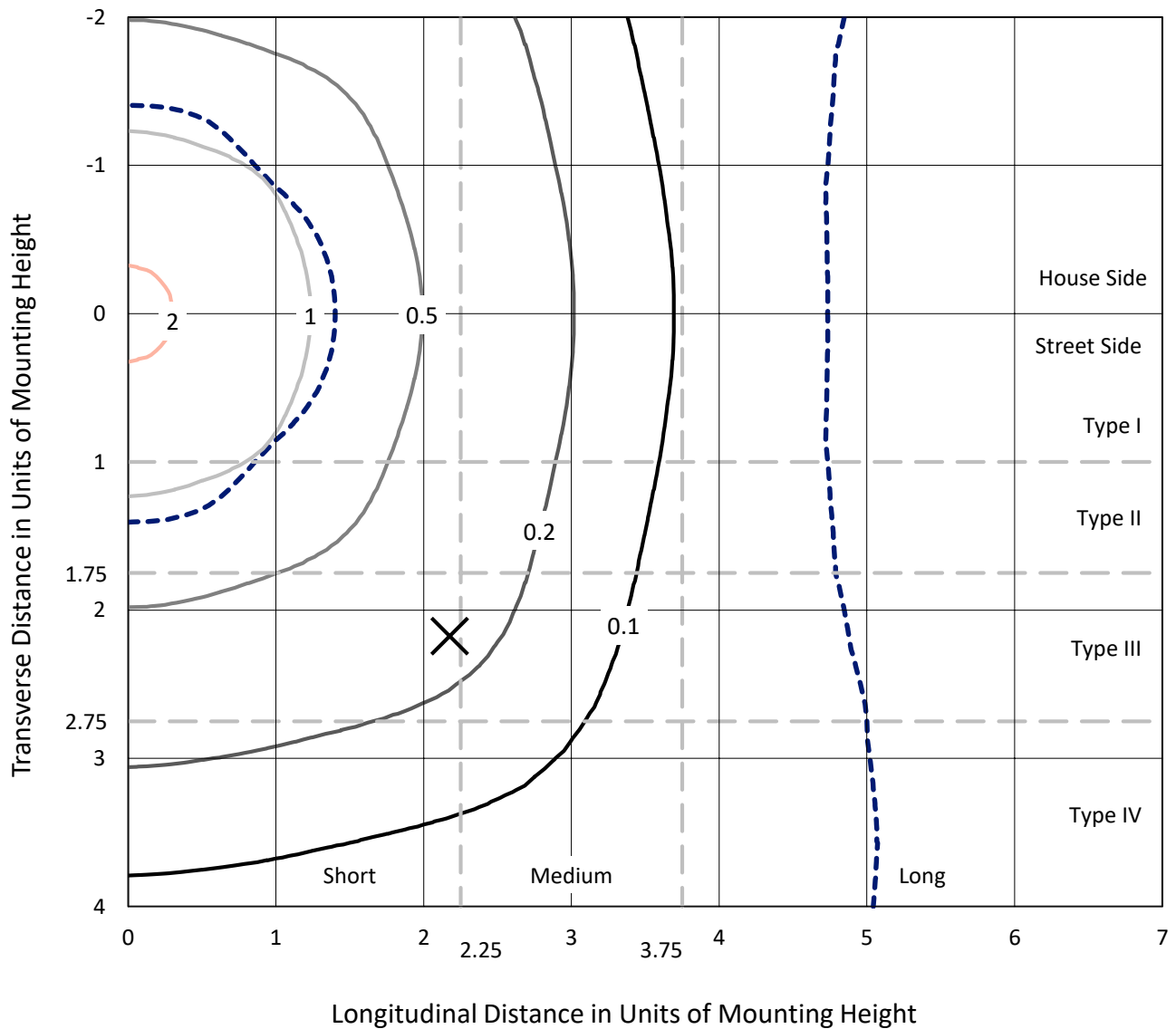
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

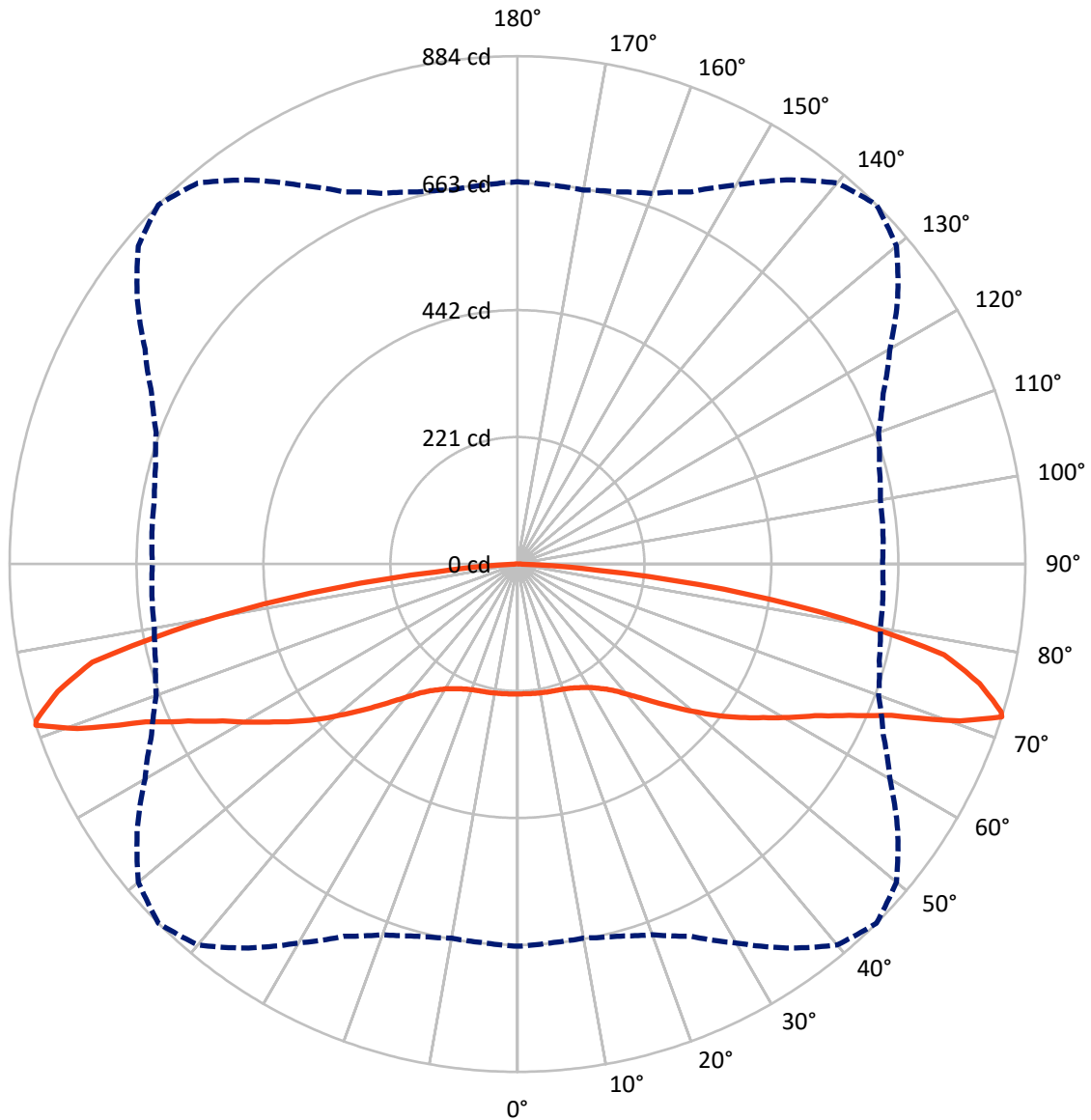
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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 | 1230.7 | 0.0 | 1230.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1230.7 | 0.0 | 1230.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2461.3 | 0.0 | 2461.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.7 | 0.9 |
| 10°-20° | 65.3 | 2.7 |
| 20°-30° | 110.5 | 4.5 |
| 30°-40° | 168.1 | 6.8 |
| 40°-50° | 266.1 | 10.8 |
| 50°-60° | 407.8 | 16.6 |
| 60°-70° | 598.7 | 24.3 |
| 70°-80° | 679.2 | 27.6 |
| 80°-90° | 143.9 | 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° | 2461.3 | 100.0 |
| 0°-180° | 2461.3 | 100.0 |



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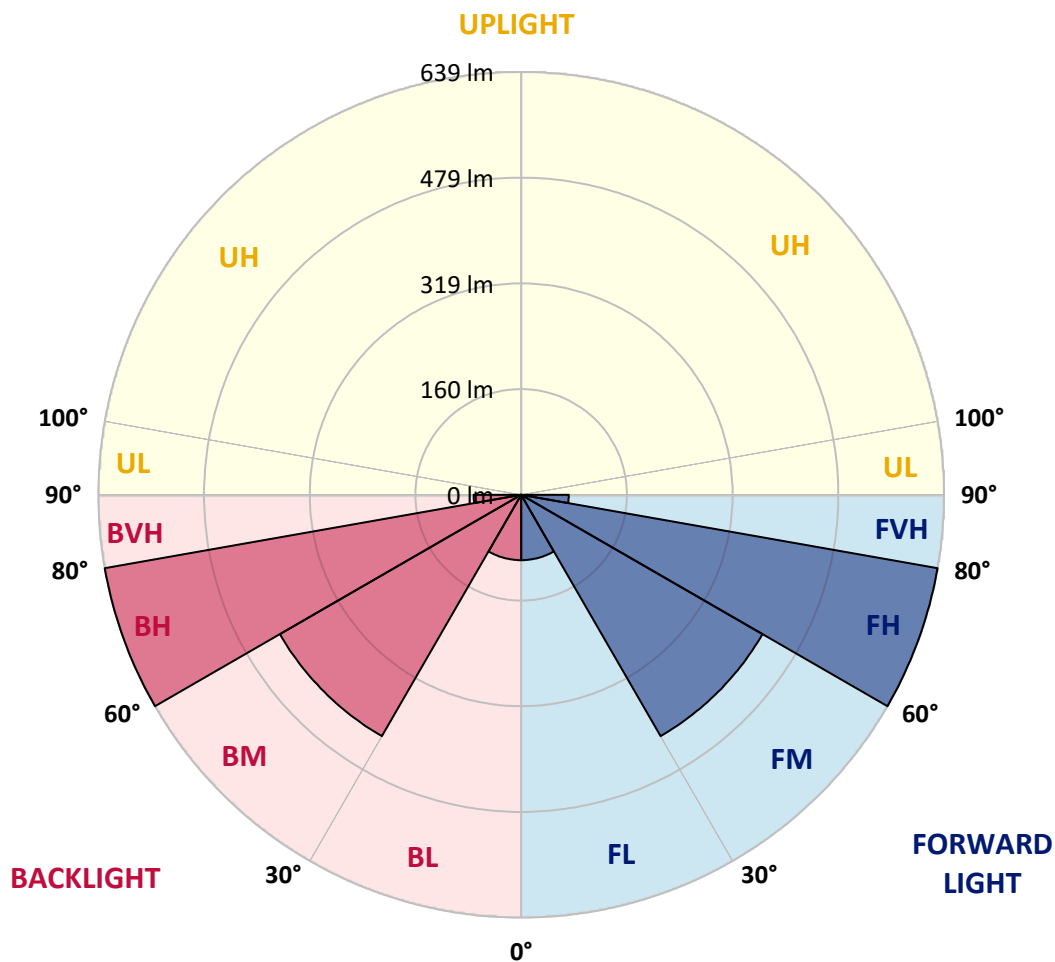
CATALOG NUMBER: CEM-F01-LED-E-U-5XQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 98.7 | 4.0 | | | |
| FM (30°-60°) | 421.0 | 17.1 | | | |
| FH (60°-80°) | 639.0 | 26.0 | | | G0/660 |
| FVH (80°-90°) | 71.9 | 2.9 | | | G1/100 |
| BL (0°-30°) | 98.7 | 4.0 | B0/110 | | |
| BM (30°-60°) | 421.0 | 17.1 | B1/1000 | | |
| BH (60°-80°) | 639.0 | 26.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 71.9 | 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° | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 |
| 2.5° | 227.0 | 227.3 | 227.0 | 226.7 | 226.7 | 226.5 | 226.5 | 226.5 | 226.7 | 226.2 | 226.2 |
| 5° | 227.6 | 227.8 | 227.6 | 227.0 | 227.0 | 227.0 | 226.7 | 226.7 | 227.0 | 226.7 | 226.7 |
| 7.5° | 228.4 | 228.7 | 228.4 | 227.8 | 227.8 | 227.6 | 227.3 | 227.3 | 227.8 | 227.3 | 227.3 |
| 10° | 229.2 | 229.8 | 229.2 | 228.7 | 228.7 | 228.4 | 228.1 | 228.1 | 228.4 | 227.8 | 227.8 |
| 12.5° | 230.6 | 230.6 | 230.3 | 230.0 | 230.0 | 229.8 | 229.5 | 229.2 | 228.9 | 228.7 | 228.4 |
| 15° | 231.7 | 232.0 | 231.4 | 231.1 | 230.9 | 230.6 | 230.3 | 230.3 | 229.8 | 229.5 | 229.5 |
| 17.5° | 233.1 | 233.3 | 232.8 | 232.2 | 232.2 | 231.7 | 231.4 | 231.4 | 230.9 | 230.6 | 230.3 |
| 20° | 234.4 | 234.7 | 234.2 | 233.9 | 233.6 | 233.3 | 232.8 | 233.1 | 232.8 | 232.2 | 232.2 |
| 22.5° | 236.1 | 236.1 | 235.8 | 235.5 | 235.5 | 235.3 | 235.0 | 235.5 | 235.0 | 235.0 | 234.7 |
| 25° | 237.8 | 238.0 | 237.8 | 237.8 | 238.0 | 238.0 | 238.3 | 238.9 | 238.9 | 238.6 | 238.3 |
| 27.5° | 241.3 | 241.3 | 241.3 | 241.3 | 242.2 | 242.2 | 242.4 | 243.3 | 243.5 | 243.5 | 243.5 |
| 30° | 246.0 | 246.3 | 246.0 | 246.0 | 246.8 | 247.1 | 247.9 | 248.8 | 249.3 | 249.3 | 249.6 |
| 32.5° | 252.9 | 252.6 | 252.9 | 253.4 | 254.0 | 254.5 | 255.4 | 256.7 | 257.6 | 257.8 | 257.8 |
| 35° | 261.7 | 262.0 | 261.7 | 262.0 | 263.1 | 263.9 | 264.7 | 266.4 | 266.9 | 267.5 | 267.7 |
| 37.5° | 274.6 | 275.5 | 274.9 | 274.9 | 276.3 | 276.8 | 277.9 | 279.3 | 280.4 | 281.0 | 280.7 |
| 40° | 293.3 | 293.1 | 292.5 | 292.8 | 293.1 | 293.6 | 294.7 | 297.5 | 298.8 | 298.8 | 298.8 |
| 42.5° | 314.8 | 315.1 | 314.2 | 314.0 | 314.2 | 314.8 | 316.5 | 318.7 | 320.9 | 320.3 | 320.6 |
| 45° | 339.3 | 337.4 | 337.9 | 337.4 | 337.6 | 339.6 | 342.3 | 343.4 | 345.6 | 345.6 | 346.2 |
| 47.5° | 363.2 | 362.4 | 362.1 | 361.9 | 362.7 | 364.6 | 367.9 | 371.5 | 373.4 | 374.5 | 375.3 |
| 50° | 390.2 | 388.8 | 388.5 | 388.8 | 389.1 | 389.6 | 396.0 | 399.6 | 404.2 | 405.1 | 404.8 |
| 52.5° | 416.3 | 415.2 | 414.7 | 414.7 | 415.8 | 417.7 | 424.3 | 430.1 | 435.3 | 438.6 | 437.3 |
| 55° | 444.7 | 444.7 | 443.0 | 442.5 | 444.1 | 446.1 | 455.1 | 461.7 | 469.2 | 471.6 | 467.8 |
| 57.5° | 473.9 | 473.6 | 471.1 | 470.3 | 471.6 | 476.6 | 484.3 | 494.5 | 502.5 | 504.7 | 502.5 |
| 60° | 502.5 | 502.5 | 501.1 | 500.5 | 501.9 | 508.0 | 517.3 | 528.6 | 538.2 | 542.4 | 538.8 |
| 62.5° | 535.2 | 535.2 | 531.6 | 533.3 | 535.2 | 539.9 | 551.7 | 566.3 | 579.2 | 581.4 | 578.1 |
| 65° | 572.4 | 574.0 | 571.3 | 570.7 | 573.2 | 582.0 | 595.5 | 613.9 | 629.0 | 634.8 | 629.9 |
| 67.5° | 629.0 | 626.6 | 623.3 | 621.9 | 625.7 | 634.0 | 650.5 | 674.7 | 697.0 | 702.5 | 696.7 |
| 70° | 687.9 | 685.5 | 684.4 | 688.8 | 697.0 | 714.4 | 739.7 | 773.5 | 804.6 | 817.8 | 805.7 |
| 72° | 665.4 | 662.1 | 661.2 | 670.6 | 686.6 | 714.9 | 761.7 | 816.2 | 865.7 | 884.1 | 861.3 |
| 72.5° | 653.8 | 651.1 | 650.8 | 659.6 | 676.9 | 705.5 | 751.5 | 807.6 | 860.7 | 880.8 | 856.3 |
| 75° | 607.0 | 604.3 | 607.0 | 616.9 | 634.3 | 665.1 | 711.9 | 764.4 | 812.3 | 830.8 | 806.8 |
| 77.5° | 542.4 | 537.4 | 539.9 | 553.7 | 572.9 | 606.5 | 656.0 | 718.2 | 764.4 | 759.5 | 724.0 |
| 80° | 432.9 | 421.8 | 433.7 | 437.8 | 459.8 | 482.4 | 530.3 | 558.1 | 574.0 | 574.8 | 549.5 |
| 82.5° | 189.0 | 193.4 | 208.3 | 220.7 | 236.4 | 262.5 | 281.8 | 311.8 | 346.7 | 363.0 | 343.4 |
| 85° | 12.4 | 15.4 | 24.5 | 29.2 | 40.5 | 49.3 | 70.7 | 102.9 | 124.1 | 142.0 | 119.7 |
| 87.5° | 2.2 | 3.0 | 5.5 | 6.6 | 7.2 | 8.0 | 8.0 | 11.0 | 11.6 | 9.4 | 10.5 |
| 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: CEM-F01-LED-E-U-5XQ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 | 226.2 |
| 2.5° | 226.2 | 226.2 | 226.5 | 226.2 | 226.2 | 226.2 | 225.9 | 225.9 |
| 5° | 226.5 | 226.5 | 226.7 | 226.7 | 226.5 | 226.5 | 226.5 | 226.5 |
| 7.5° | 227.3 | 227.0 | 227.3 | 227.3 | 227.0 | 227.0 | 226.7 | 227.0 |
| 10° | 227.6 | 227.6 | 227.8 | 227.8 | 227.6 | 227.6 | 227.6 | 227.6 |
| 12.5° | 228.4 | 228.4 | 228.4 | 228.7 | 228.4 | 228.4 | 228.7 | 228.4 |
| 15° | 229.2 | 228.9 | 228.9 | 228.9 | 228.9 | 229.2 | 229.2 | 229.5 |
| 17.5° | 230.0 | 230.0 | 229.8 | 230.0 | 230.0 | 230.3 | 230.3 | 230.3 |
| 20° | 231.7 | 231.4 | 230.9 | 231.4 | 231.4 | 231.4 | 231.4 | 231.7 |
| 22.5° | 234.2 | 233.6 | 233.1 | 233.1 | 232.8 | 233.1 | 232.8 | 232.8 |
| 25° | 237.8 | 236.9 | 236.1 | 235.8 | 235.5 | 235.3 | 235.0 | 235.3 |
| 27.5° | 243.0 | 241.9 | 240.8 | 240.2 | 240.0 | 239.4 | 239.1 | 239.1 |
| 30° | 248.8 | 247.9 | 246.3 | 245.7 | 244.9 | 244.1 | 244.1 | 243.8 |
| 32.5° | 257.6 | 256.5 | 254.5 | 253.7 | 252.3 | 251.5 | 251.2 | 251.2 |
| 35° | 266.6 | 265.3 | 264.4 | 263.3 | 261.7 | 260.9 | 260.6 | 260.6 |
| 37.5° | 280.4 | 278.8 | 277.7 | 276.3 | 276.0 | 274.9 | 274.9 | 274.9 |
| 40° | 298.3 | 296.9 | 295.5 | 294.4 | 293.6 | 292.8 | 291.7 | 291.7 |
| 42.5° | 320.3 | 318.1 | 317.3 | 315.9 | 314.8 | 314.0 | 313.4 | 313.4 |
| 45° | 344.5 | 342.6 | 341.5 | 339.6 | 339.3 | 338.7 | 337.6 | 337.6 |
| 47.5° | 371.8 | 369.0 | 366.8 | 366.3 | 364.9 | 363.5 | 363.0 | 363.2 |
| 50° | 401.5 | 396.8 | 393.8 | 393.8 | 392.1 | 390.2 | 390.5 | 390.2 |
| 52.5° | 432.0 | 426.8 | 422.9 | 420.2 | 418.3 | 418.0 | 418.3 | 418.0 |
| 55° | 462.8 | 457.3 | 452.7 | 449.6 | 447.7 | 445.8 | 445.5 | 445.5 |
| 57.5° | 494.8 | 487.9 | 480.5 | 477.7 | 475.8 | 474.7 | 474.7 | 475.0 |
| 60° | 530.8 | 519.5 | 510.2 | 506.6 | 505.2 | 505.8 | 505.5 | 505.8 |
| 62.5° | 567.4 | 554.5 | 543.5 | 539.3 | 537.4 | 537.1 | 539.3 | 540.2 |
| 65° | 613.6 | 597.7 | 585.3 | 577.6 | 577.6 | 576.8 | 579.2 | 578.1 |
| 67.5° | 673.9 | 651.3 | 636.2 | 623.8 | 624.1 | 624.9 | 628.5 | 628.2 |
| 70° | 776.5 | 736.6 | 708.6 | 687.4 | 679.1 | 673.6 | 672.5 | 672.5 |
| 72° | 808.2 | 748.8 | 702.5 | 669.2 | 652.2 | 641.7 | 638.7 | 635.4 |
| 72.5° | 799.9 | 738.8 | 692.1 | 657.4 | 639.8 | 629.3 | 624.6 | 620.5 |
| 75° | 747.9 | 679.7 | 628.8 | 592.5 | 572.9 | 560.3 | 557.8 | 555.9 |
| 77.5° | 659.9 | 599.3 | 546.8 | 509.1 | 489.5 | 473.3 | 466.7 | 466.1 |
| 80° | 508.8 | 454.3 | 413.9 | 384.4 | 366.8 | 354.7 | 355.3 | 351.4 |
| 82.5° | 300.2 | 254.3 | 219.6 | 180.2 | 154.4 | 139.5 | 130.2 | 129.1 |
| 85° | 88.3 | 60.0 | 38.2 | 27.5 | 19.8 | 14.9 | 11.0 | 9.9 |
| 87.5° | 8.0 | 6.3 | 5.2 | 4.4 | 4.1 | 3.6 | 2.2 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)