

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: P161610

Luminaire Tested: **OVF-F01-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161610
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-F01-LED-E-U-5WQ-8030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.9 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

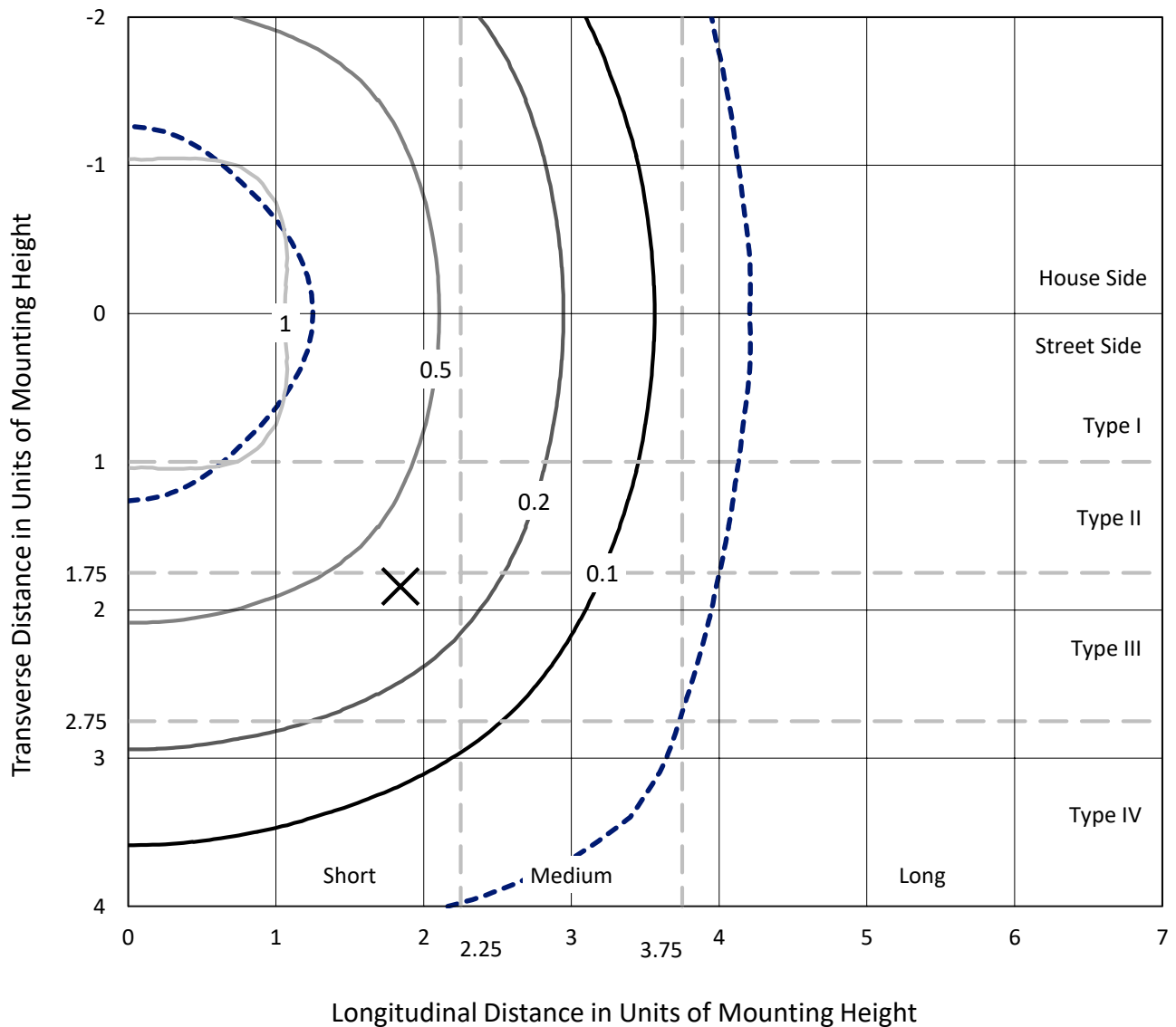
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

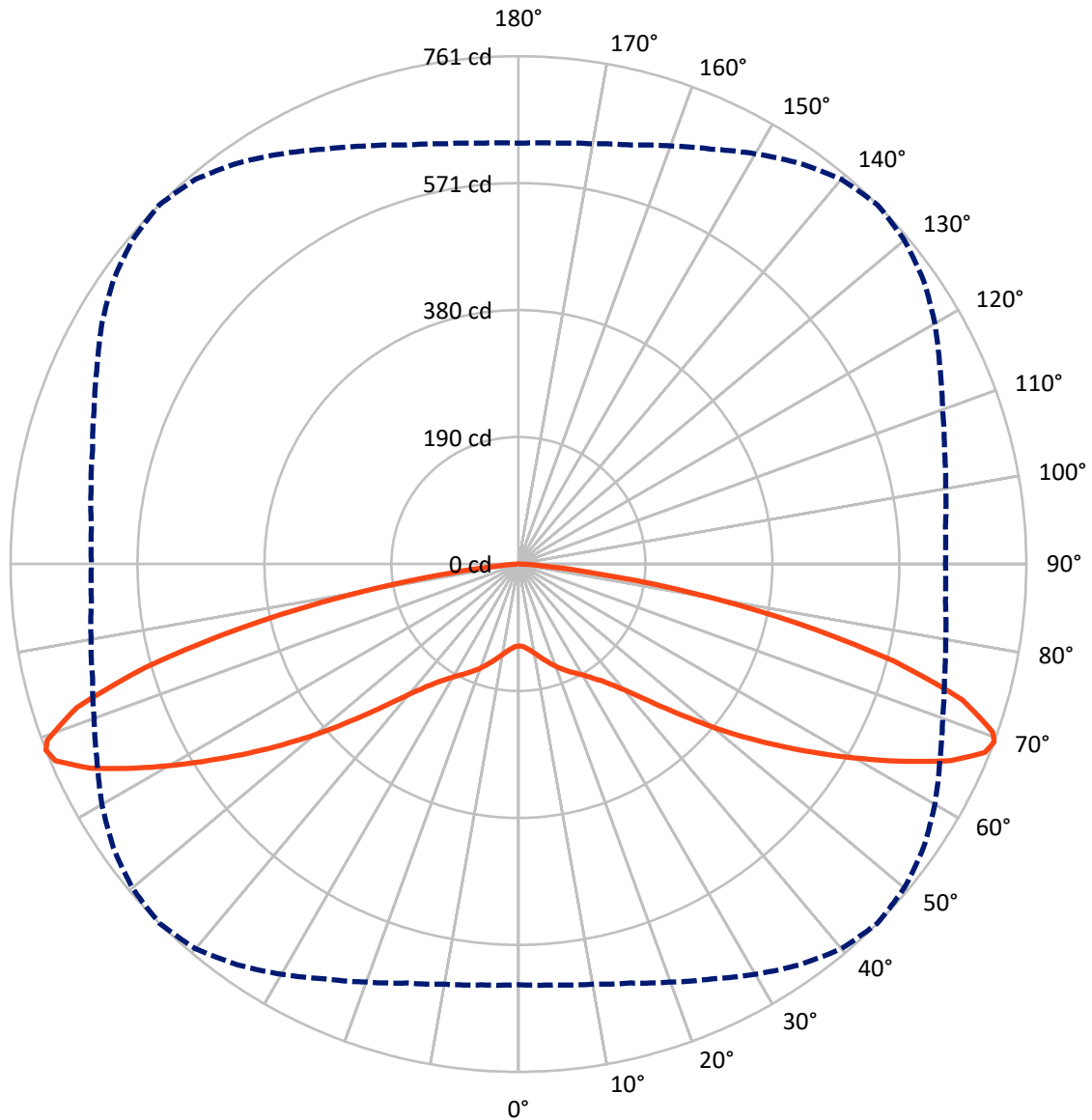
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1067.9 | 0.0 | 1067.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1067.9 | 0.0 | 1067.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2135.9 | 0.0 | 2135.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.4 | 0.6 |
| 10°-20° | 42.7 | 2.0 |
| 20°-30° | 82.3 | 3.9 |
| 30°-40° | 134.8 | 6.3 |
| 40°-50° | 234.4 | 11.0 |
| 50°-60° | 416.4 | 19.5 |
| 60°-70° | 646.5 | 30.3 |
| 70°-80° | 515.1 | 24.1 |
| 80°-90° | 51.2 | 2.4 |
| 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° | 2135.9 | 100.0 |
| 0°-180° | 2135.9 | 100.0 |



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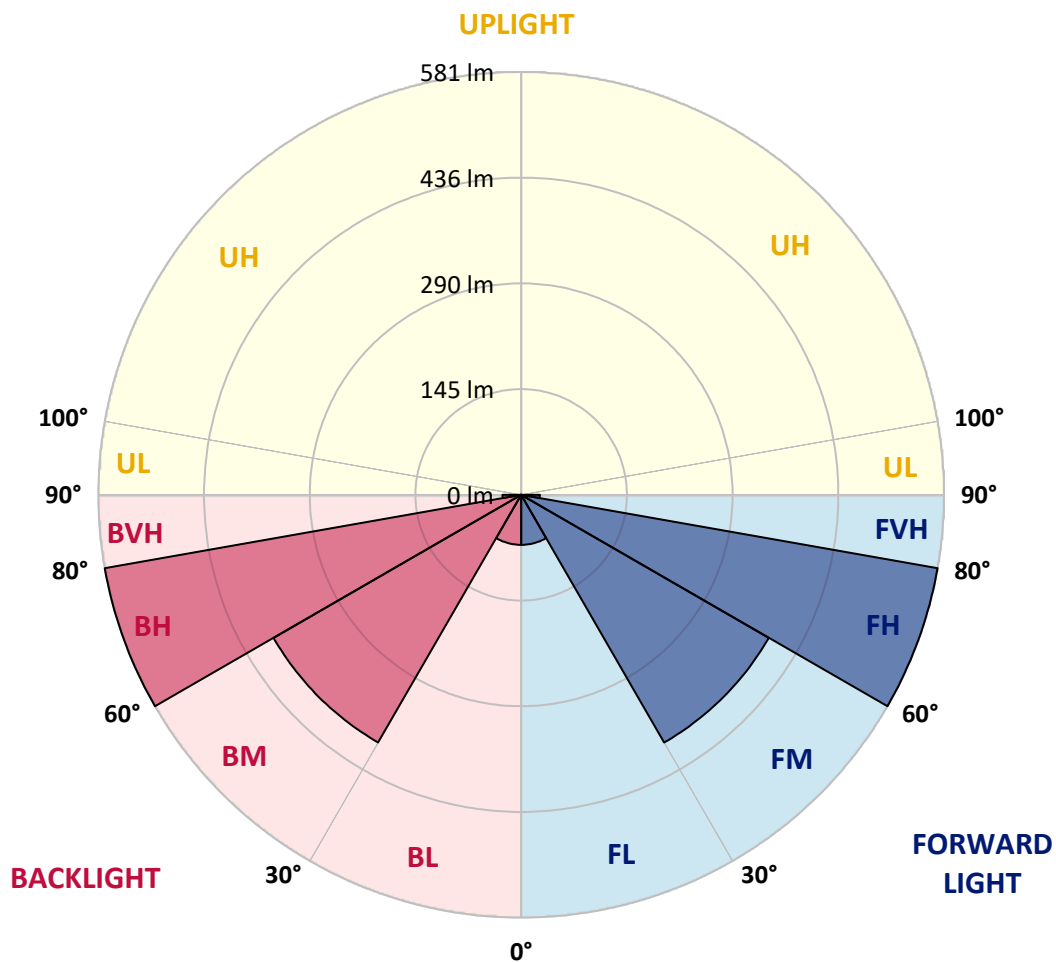
CATALOG NUMBER: OVF-F01-LED-E-U-5WQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 68.7 | 3.2 | | | |
| FM | (30°-60°) | 392.8 | 18.4 | | | |
| FH | (60°-80°) | 580.8 | 27.2 | | | G0/660 |
| FVH | (80°-90°) | 25.6 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 68.7 | 3.2 | B0/110 | | |
| BM | (30°-60°) | 392.8 | 18.4 | B1/1000 | | |
| BH | (60°-80°) | 580.8 | 27.2 | B2/1000 | | G0/660 |
| BVH | (80°-90°) | 25.6 | 1.2 | | | 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° | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 |
| 2.5° | 123.7 | 123.7 | 123.7 | 123.6 | 123.6 | 123.5 | 123.6 | 123.5 | 123.5 | 123.5 | 123.5 |
| 5° | 126.9 | 126.7 | 126.7 | 126.5 | 126.8 | 126.8 | 126.5 | 126.7 | 126.5 | 126.7 | 126.7 |
| 7.5° | 131.0 | 131.0 | 131.0 | 130.8 | 131.1 | 131.0 | 130.8 | 131.0 | 131.0 | 130.8 | 130.8 |
| 10° | 136.0 | 136.1 | 136.0 | 136.0 | 136.4 | 136.3 | 136.4 | 136.4 | 136.6 | 136.4 | 136.4 |
| 12.5° | 141.9 | 141.9 | 142.0 | 142.1 | 142.3 | 142.4 | 142.8 | 142.7 | 143.0 | 142.7 | 142.7 |
| 15° | 148.7 | 149.0 | 148.7 | 148.7 | 149.1 | 149.4 | 149.5 | 149.5 | 149.8 | 149.7 | 149.4 |
| 17.5° | 155.9 | 156.1 | 155.9 | 155.8 | 156.2 | 156.6 | 156.8 | 156.8 | 157.2 | 156.9 | 156.9 |
| 20° | 163.3 | 163.5 | 163.2 | 163.0 | 163.6 | 163.6 | 163.9 | 164.0 | 164.4 | 164.6 | 164.2 |
| 22.5° | 170.1 | 170.3 | 170.1 | 170.0 | 170.6 | 170.6 | 171.0 | 171.1 | 171.7 | 171.5 | 171.5 |
| 25° | 176.8 | 176.8 | 176.7 | 176.7 | 177.2 | 177.4 | 177.8 | 178.1 | 178.6 | 178.6 | 178.6 |
| 27.5° | 183.0 | 183.1 | 182.8 | 182.7 | 183.8 | 184.2 | 184.5 | 185.1 | 185.5 | 185.7 | 185.6 |
| 30° | 189.9 | 189.9 | 189.8 | 190.2 | 190.9 | 191.5 | 192.0 | 192.9 | 193.7 | 193.4 | 193.4 |
| 32.5° | 198.2 | 198.4 | 198.3 | 198.8 | 199.7 | 200.5 | 201.2 | 202.2 | 202.6 | 203.3 | 202.8 |
| 35° | 209.2 | 209.7 | 209.4 | 210.0 | 210.7 | 211.3 | 212.8 | 213.8 | 214.5 | 214.9 | 214.6 |
| 37.5° | 223.0 | 222.7 | 223.2 | 223.4 | 224.8 | 225.5 | 227.3 | 228.7 | 229.8 | 230.2 | 229.9 |
| 40° | 240.1 | 239.7 | 240.4 | 241.1 | 242.9 | 243.6 | 245.7 | 247.8 | 249.3 | 249.8 | 249.6 |
| 42.5° | 260.6 | 261.1 | 262.3 | 263.2 | 265.7 | 267.7 | 270.1 | 273.1 | 274.8 | 275.5 | 274.5 |
| 45° | 287.5 | 286.5 | 288.6 | 291.1 | 292.5 | 296.8 | 300.7 | 303.9 | 306.7 | 307.8 | 306.7 |
| 47.5° | 318.1 | 318.0 | 320.5 | 323.6 | 327.2 | 331.2 | 335.8 | 340.0 | 344.9 | 345.2 | 343.8 |
| 50° | 352.0 | 354.8 | 356.2 | 359.2 | 365.9 | 370.9 | 376.8 | 383.1 | 387.5 | 388.9 | 386.4 |
| 52.5° | 392.8 | 394.9 | 395.7 | 400.9 | 407.0 | 413.2 | 421.4 | 428.9 | 434.1 | 434.6 | 433.4 |
| 55° | 437.1 | 438.8 | 440.3 | 446.6 | 453.3 | 458.7 | 469.2 | 476.6 | 481.7 | 483.7 | 482.8 |
| 57.5° | 483.0 | 484.5 | 486.5 | 493.3 | 500.1 | 507.8 | 517.7 | 526.3 | 532.3 | 535.9 | 535.0 |
| 60° | 533.8 | 533.8 | 538.3 | 545.1 | 550.7 | 559.8 | 570.1 | 580.1 | 586.7 | 592.4 | 590.8 |
| 62.5° | 587.3 | 588.9 | 593.2 | 598.8 | 604.6 | 613.0 | 624.7 | 636.7 | 646.7 | 651.0 | 650.9 |
| 65° | 627.9 | 630.7 | 636.4 | 642.8 | 652.6 | 662.5 | 677.2 | 692.1 | 704.3 | 710.5 | 710.5 |
| 67.5° | 639.7 | 641.6 | 648.7 | 658.4 | 672.5 | 688.2 | 708.3 | 729.1 | 745.6 | 753.9 | 748.7 |
| 69° | 630.3 | 632.9 | 639.2 | 649.8 | 666.5 | 685.7 | 709.6 | 733.1 | 752.3 | 760.8 | 754.8 |
| 70° | 619.3 | 622.2 | 628.5 | 638.9 | 656.2 | 676.7 | 700.5 | 725.9 | 746.5 | 753.7 | 746.9 |
| 72.5° | 574.4 | 578.0 | 582.5 | 591.5 | 607.1 | 626.4 | 647.8 | 670.1 | 689.9 | 695.6 | 687.1 |
| 75° | 497.9 | 498.6 | 500.8 | 507.5 | 513.1 | 526.7 | 545.0 | 562.7 | 577.6 | 580.9 | 571.9 |
| 77.5° | 352.4 | 348.6 | 344.9 | 350.6 | 355.1 | 372.6 | 392.4 | 406.9 | 422.5 | 427.2 | 418.0 |
| 80° | 154.5 | 153.1 | 158.4 | 166.0 | 185.6 | 197.3 | 216.7 | 237.4 | 250.7 | 266.2 | 249.6 |
| 82.5° | 30.5 | 32.2 | 37.2 | 46.0 | 56.7 | 71.3 | 84.0 | 98.4 | 111.3 | 117.2 | 111.2 |
| 85° | 12.4 | 13.5 | 15.3 | 17.1 | 18.4 | 20.6 | 24.2 | 30.1 | 33.2 | 33.6 | 31.9 |
| 87.5° | 5.2 | 6.0 | 8.1 | 9.6 | 9.8 | 9.3 | 9.6 | 9.9 | 8.1 | 6.5 | 8.2 |
| 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: OVF-F01-LED-E-U-5WQ-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 |
| 2.5° | 123.5 | 123.6 | 123.5 | 123.6 | 123.5 | 123.5 | 123.6 | 123.5 |
| 5° | 126.5 | 126.7 | 126.5 | 126.4 | 126.2 | 126.4 | 126.4 | 126.4 |
| 7.5° | 130.8 | 130.7 | 130.6 | 130.6 | 130.4 | 130.3 | 130.6 | 130.6 |
| 10° | 136.1 | 136.0 | 135.7 | 135.7 | 135.6 | 135.6 | 135.6 | 135.6 |
| 12.5° | 142.6 | 142.1 | 142.0 | 141.6 | 141.4 | 141.3 | 141.3 | 141.4 |
| 15° | 149.2 | 148.8 | 148.7 | 148.0 | 148.0 | 147.8 | 147.8 | 147.8 |
| 17.5° | 156.3 | 155.9 | 155.4 | 155.4 | 155.0 | 154.7 | 154.8 | 154.5 |
| 20° | 163.6 | 163.0 | 162.8 | 162.6 | 162.1 | 162.1 | 162.1 | 161.9 |
| 22.5° | 170.7 | 170.3 | 169.9 | 169.3 | 168.7 | 168.6 | 168.6 | 168.5 |
| 25° | 177.9 | 177.2 | 176.4 | 175.9 | 175.3 | 174.9 | 174.9 | 174.9 |
| 27.5° | 185.2 | 184.4 | 183.1 | 182.4 | 181.6 | 181.2 | 181.2 | 181.0 |
| 30° | 192.9 | 191.9 | 190.8 | 189.8 | 188.7 | 188.3 | 188.1 | 187.8 |
| 32.5° | 202.1 | 201.1 | 200.0 | 198.6 | 197.5 | 196.8 | 196.8 | 196.3 |
| 35° | 213.8 | 212.6 | 211.8 | 210.0 | 208.6 | 207.5 | 207.6 | 207.9 |
| 37.5° | 229.1 | 227.7 | 227.0 | 224.8 | 223.0 | 221.8 | 221.8 | 221.7 |
| 40° | 248.6 | 247.2 | 245.7 | 243.6 | 241.3 | 239.8 | 239.4 | 239.4 |
| 42.5° | 273.4 | 272.1 | 270.1 | 267.1 | 264.5 | 262.8 | 261.4 | 261.6 |
| 45° | 304.5 | 302.9 | 300.0 | 296.4 | 293.2 | 290.8 | 288.9 | 288.9 |
| 47.5° | 342.2 | 339.0 | 335.0 | 331.8 | 326.4 | 322.7 | 321.3 | 321.1 |
| 50° | 385.3 | 379.3 | 374.3 | 369.7 | 364.0 | 360.2 | 358.1 | 357.6 |
| 52.5° | 430.4 | 424.2 | 417.9 | 411.9 | 404.9 | 401.0 | 397.7 | 397.4 |
| 55° | 479.5 | 471.6 | 463.6 | 457.8 | 449.5 | 445.5 | 442.1 | 440.2 |
| 57.5° | 529.5 | 520.6 | 514.9 | 506.5 | 497.9 | 495.0 | 491.8 | 489.4 |
| 60° | 585.8 | 576.1 | 568.5 | 559.8 | 554.2 | 547.9 | 544.8 | 543.0 |
| 62.5° | 643.4 | 634.3 | 624.7 | 616.3 | 608.5 | 604.2 | 600.0 | 597.9 |
| 65° | 701.9 | 687.0 | 675.6 | 664.0 | 654.8 | 647.0 | 640.4 | 639.6 |
| 67.5° | 737.8 | 719.0 | 699.9 | 683.1 | 669.6 | 658.6 | 651.9 | 649.5 |
| 69° | 740.8 | 720.3 | 696.5 | 676.3 | 660.6 | 650.1 | 642.1 | 639.6 |
| 70° | 732.7 | 712.1 | 687.0 | 665.2 | 649.1 | 637.5 | 631.0 | 626.8 |
| 72.5° | 673.6 | 655.5 | 631.4 | 609.9 | 595.3 | 581.8 | 575.2 | 573.6 |
| 75° | 555.7 | 536.5 | 514.3 | 504.0 | 493.8 | 485.3 | 480.9 | 480.5 |
| 77.5° | 394.6 | 375.0 | 358.1 | 344.6 | 333.6 | 328.2 | 329.4 | 324.8 |
| 80° | 225.9 | 200.2 | 179.9 | 167.9 | 151.6 | 141.9 | 130.8 | 138.8 |
| 82.5° | 97.1 | 78.5 | 59.8 | 48.6 | 37.1 | 29.4 | 24.2 | 22.6 |
| 85° | 27.2 | 22.2 | 18.5 | 17.0 | 15.3 | 13.7 | 11.6 | 10.7 |
| 87.5° | 9.2 | 8.8 | 7.8 | 7.8 | 7.1 | 6.0 | 4.2 | 3.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)