

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: McGRAW-EDISON

Report Number: P144098

Luminaire Tested: **VPL-E01-LED-E1-SQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144098
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: MCGRAW-EDISON
Catalog Number: VPL-E01-LED-E1-SQ-8030
Description: VALET LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2587.3 lumens
Efficiency: N/A
Efficacy: 104.7 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): 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

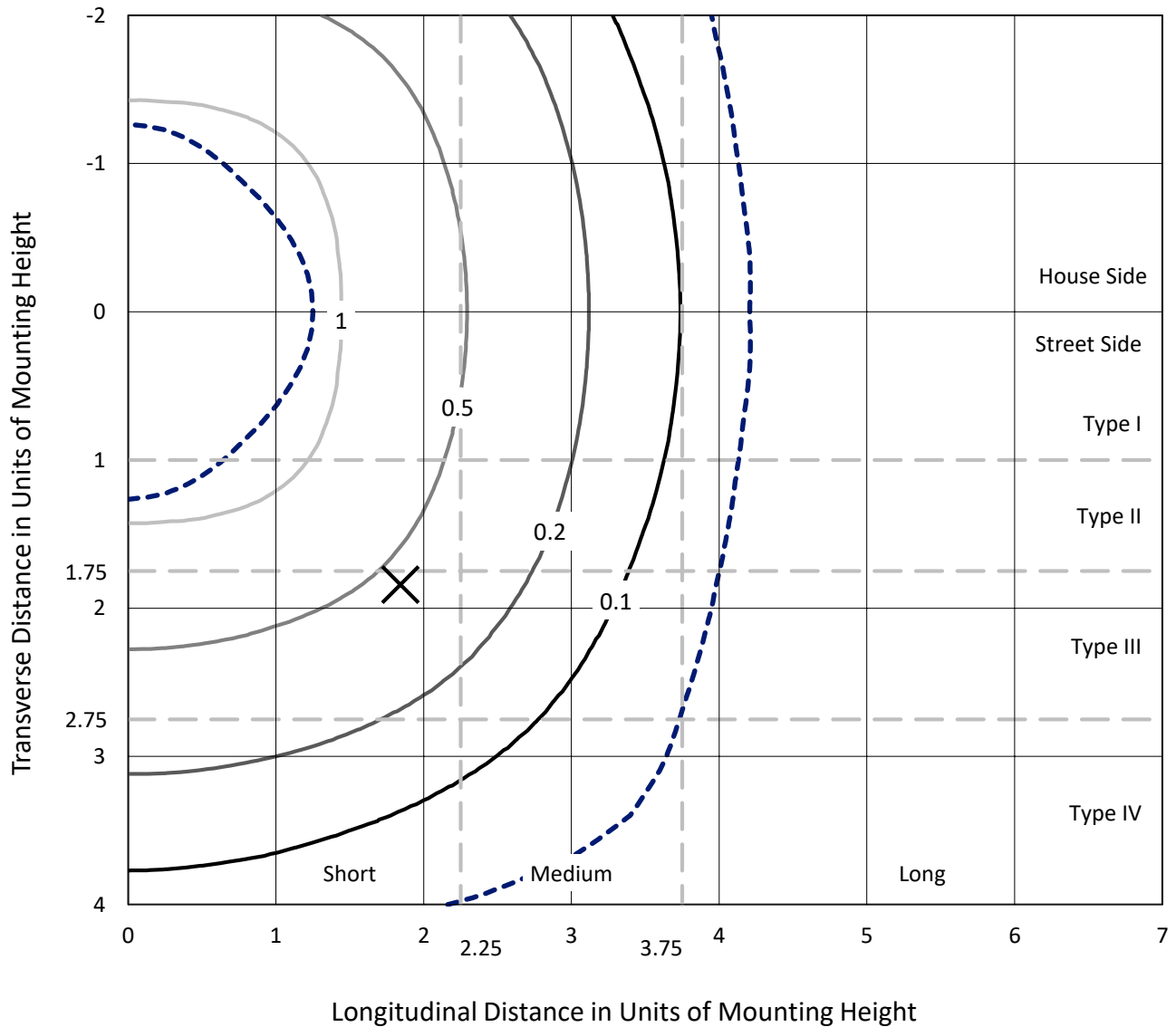


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

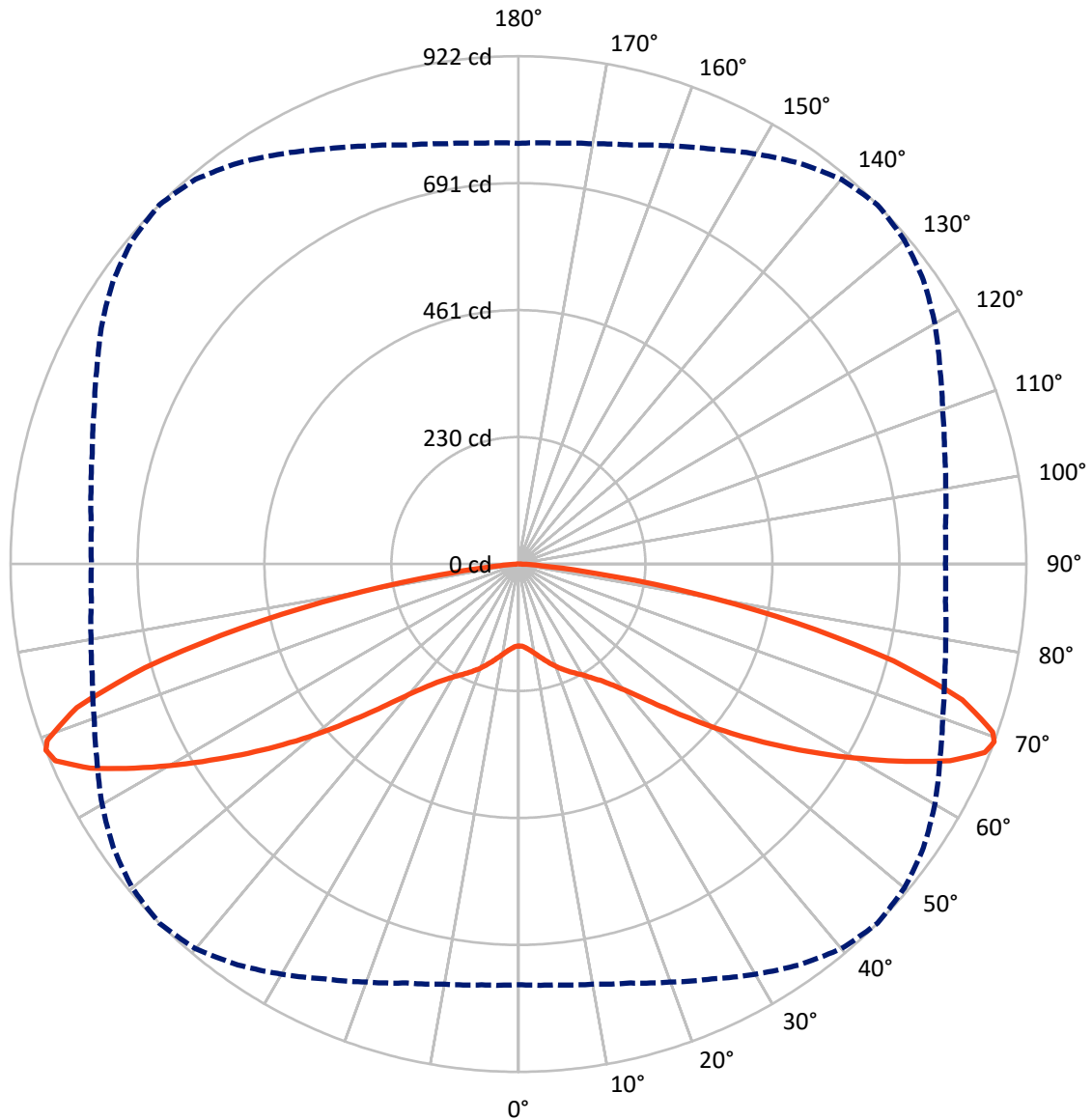


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

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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 | 1293.6 | 0.0 | 1293.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1293.6 | 0.0 | 1293.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2587.3 | 0.0 | 2587.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 15.0 | 0.6 |
| 10°-20° | 51.7 | 2.0 |
| 20°-30° | 99.7 | 3.9 |
| 30°-40° | 163.3 | 6.3 |
| 40°-50° | 284.0 | 11.0 |
| 50°-60° | 504.4 | 19.5 |
| 60°-70° | 783.2 | 30.3 |
| 70°-80° | 624.0 | 24.1 |
| 80°-90° | 62.1 | 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° | 2587.3 | 100.0 |
| 0°-180° | 2587.3 | 100.0 |



REPORT NUMBER: P144098

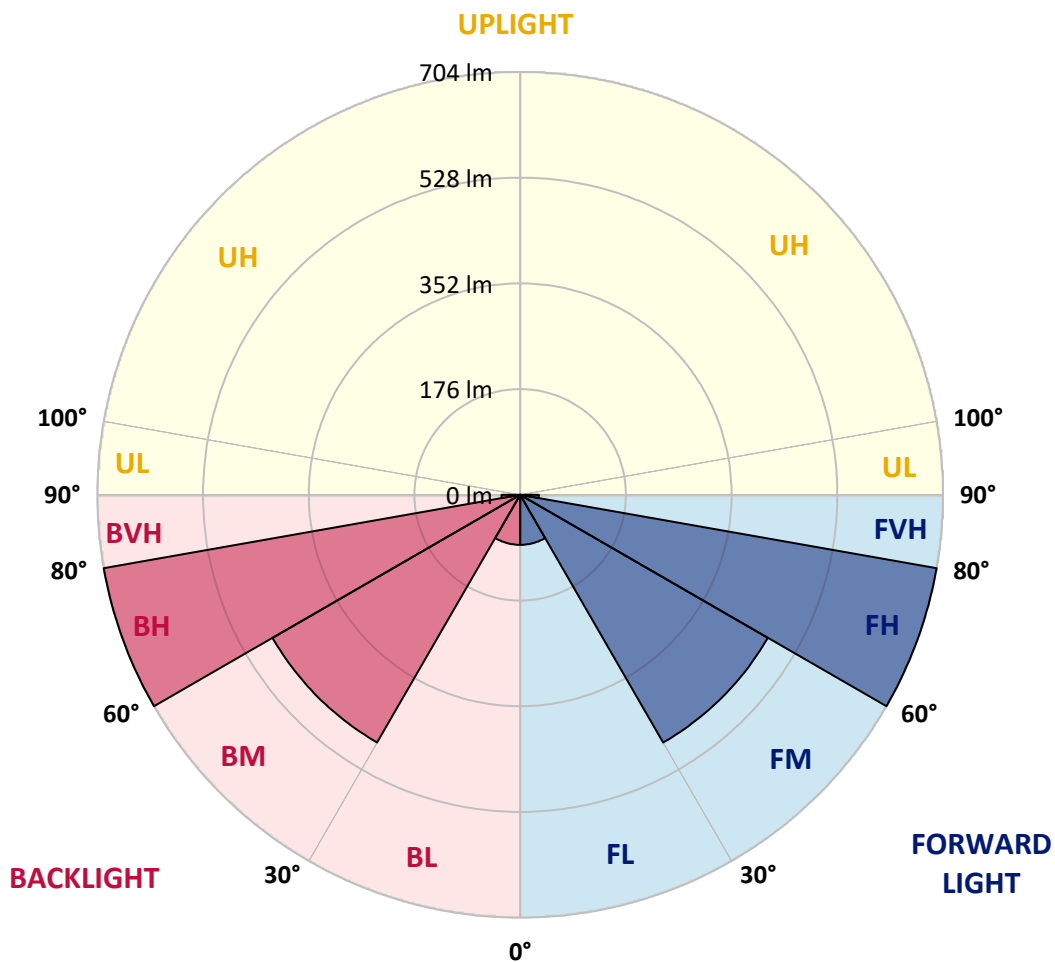
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 83.2 | 3.2 | | | |
| FM (30°-60°) | 475.9 | 18.4 | | | |
| FH (60°-80°) | 703.6 | 27.2 | | | G1/1800 |
| FVH (80°-90°) | 31.0 | 1.2 | | | G1/100 |
| BL (0°-30°) | 83.2 | 3.2 | B0/110 | | |
| BM (30°-60°) | 475.9 | 18.4 | B1/1000 | | |
| BH (60°-80°) | 703.6 | 27.2 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 31.0 | 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° | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 |
| 2.5° | 149.9 | 149.9 | 149.9 | 149.7 | 149.7 | 149.6 | 149.7 | 149.6 | 149.6 | 149.6 | 149.6 |
| 5° | 153.8 | 153.4 | 153.4 | 153.3 | 153.6 | 153.6 | 153.3 | 153.4 | 153.3 | 153.4 | 153.4 |
| 7.5° | 158.7 | 158.7 | 158.7 | 158.5 | 158.8 | 158.7 | 158.5 | 158.7 | 158.7 | 158.5 | 158.5 |
| 10° | 164.7 | 164.9 | 164.7 | 164.7 | 165.3 | 165.1 | 165.3 | 165.3 | 165.4 | 165.3 | 165.3 |
| 12.5° | 171.8 | 171.8 | 172.0 | 172.2 | 172.3 | 172.5 | 173.0 | 172.8 | 173.2 | 172.8 | 172.8 |
| 15° | 180.1 | 180.4 | 180.1 | 180.1 | 180.6 | 181.0 | 181.1 | 181.1 | 181.5 | 181.3 | 181.0 |
| 17.5° | 188.9 | 189.1 | 188.9 | 188.7 | 189.2 | 189.7 | 189.9 | 189.9 | 190.4 | 190.1 | 190.1 |
| 20° | 197.8 | 198.0 | 197.7 | 197.5 | 198.2 | 198.2 | 198.5 | 198.7 | 199.2 | 199.4 | 198.8 |
| 22.5° | 206.1 | 206.3 | 206.1 | 205.9 | 206.6 | 206.6 | 207.1 | 207.3 | 208.0 | 207.8 | 207.8 |
| 25° | 214.2 | 214.2 | 214.0 | 214.0 | 214.7 | 214.9 | 215.4 | 215.7 | 216.4 | 216.4 | 216.4 |
| 27.5° | 221.6 | 221.8 | 221.5 | 221.3 | 222.6 | 223.2 | 223.5 | 224.2 | 224.7 | 225.0 | 224.8 |
| 30° | 230.1 | 230.1 | 229.9 | 230.4 | 231.3 | 231.9 | 232.6 | 233.6 | 234.6 | 234.3 | 234.3 |
| 32.5° | 240.0 | 240.4 | 240.2 | 240.9 | 241.9 | 242.9 | 243.7 | 244.9 | 245.4 | 246.3 | 245.6 |
| 35° | 253.4 | 254.0 | 253.7 | 254.4 | 255.2 | 255.9 | 257.8 | 258.9 | 259.8 | 260.3 | 259.9 |
| 37.5° | 270.1 | 269.7 | 270.4 | 270.6 | 272.3 | 273.1 | 275.3 | 277.0 | 278.3 | 278.9 | 278.5 |
| 40° | 290.8 | 290.3 | 291.2 | 292.0 | 294.2 | 295.1 | 297.6 | 300.1 | 302.0 | 302.7 | 302.3 |
| 42.5° | 315.7 | 316.3 | 317.7 | 318.9 | 321.9 | 324.3 | 327.1 | 330.8 | 332.9 | 333.7 | 332.5 |
| 45° | 348.2 | 347.0 | 349.6 | 352.6 | 354.3 | 359.5 | 364.3 | 368.1 | 371.5 | 372.9 | 371.5 |
| 47.5° | 385.4 | 385.2 | 388.2 | 391.9 | 396.3 | 401.2 | 406.8 | 411.9 | 417.8 | 418.1 | 416.4 |
| 50° | 426.4 | 429.8 | 431.4 | 435.2 | 443.3 | 449.3 | 456.4 | 464.0 | 469.4 | 471.1 | 468.1 |
| 52.5° | 475.8 | 478.4 | 479.4 | 485.6 | 493.1 | 500.5 | 510.4 | 519.6 | 525.8 | 526.5 | 525.0 |
| 55° | 529.5 | 531.5 | 533.4 | 541.0 | 549.1 | 555.7 | 568.3 | 577.3 | 583.5 | 585.9 | 584.9 |
| 57.5° | 585.1 | 586.9 | 589.3 | 597.5 | 605.8 | 615.1 | 627.1 | 637.6 | 644.8 | 649.2 | 648.0 |
| 60° | 646.7 | 646.7 | 652.1 | 660.3 | 667.1 | 678.1 | 690.6 | 702.7 | 710.6 | 717.6 | 715.7 |
| 62.5° | 711.5 | 713.3 | 718.6 | 725.3 | 732.4 | 742.5 | 756.7 | 771.2 | 783.4 | 788.6 | 788.5 |
| 65° | 760.6 | 764.0 | 770.9 | 778.7 | 790.5 | 802.5 | 820.4 | 838.4 | 853.1 | 860.7 | 860.7 |
| 67.5° | 775.0 | 777.1 | 785.8 | 797.6 | 814.6 | 833.7 | 858.0 | 883.2 | 903.2 | 913.2 | 907.0 |
| 69° | 763.5 | 766.7 | 774.3 | 787.1 | 807.4 | 830.7 | 859.5 | 888.0 | 911.3 | 921.6 | 914.4 |
| 70° | 750.1 | 753.7 | 761.3 | 773.9 | 794.9 | 819.7 | 848.5 | 879.3 | 904.3 | 913.0 | 904.8 |
| 72.5° | 695.8 | 700.2 | 705.6 | 716.5 | 735.5 | 758.7 | 784.7 | 811.8 | 835.7 | 842.6 | 832.3 |
| 75° | 603.1 | 604.0 | 606.7 | 614.8 | 621.5 | 638.1 | 660.2 | 681.6 | 699.7 | 703.7 | 692.7 |
| 77.5° | 426.9 | 422.3 | 417.8 | 424.7 | 430.1 | 451.4 | 475.3 | 492.9 | 511.8 | 517.5 | 506.4 |
| 80° | 187.2 | 185.5 | 191.9 | 201.0 | 224.8 | 239.0 | 262.5 | 287.6 | 303.7 | 322.4 | 302.3 |
| 82.5° | 37.0 | 39.0 | 45.1 | 55.7 | 68.7 | 86.4 | 101.8 | 119.2 | 134.9 | 142.0 | 134.7 |
| 85° | 15.0 | 16.4 | 18.6 | 20.8 | 22.3 | 25.0 | 29.4 | 36.5 | 40.2 | 40.7 | 38.7 |
| 87.5° | 6.2 | 7.3 | 9.8 | 11.6 | 11.8 | 11.3 | 11.6 | 12.0 | 9.8 | 7.9 | 10.0 |
| 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: P144098

CATALOG NUMBER: VPL-E01-LED-E1-SQ-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 | 148.7 |
| 2.5° | 149.6 | 149.7 | 149.6 | 149.7 | 149.6 | 149.6 | 149.7 | 149.6 |
| 5° | 153.3 | 153.4 | 153.3 | 153.1 | 152.9 | 153.1 | 153.1 | 153.1 |
| 7.5° | 158.5 | 158.3 | 158.2 | 158.2 | 158.0 | 157.8 | 158.2 | 158.2 |
| 10° | 164.9 | 164.7 | 164.4 | 164.4 | 164.2 | 164.2 | 164.2 | 164.2 |
| 12.5° | 172.7 | 172.2 | 172.0 | 171.5 | 171.3 | 171.2 | 171.2 | 171.3 |
| 15° | 180.8 | 180.3 | 180.1 | 179.3 | 179.3 | 179.1 | 179.1 | 179.1 |
| 17.5° | 189.4 | 188.9 | 188.2 | 188.2 | 187.7 | 187.4 | 187.5 | 187.2 |
| 20° | 198.2 | 197.5 | 197.2 | 197.0 | 196.3 | 196.3 | 196.3 | 196.1 |
| 22.5° | 206.8 | 206.3 | 205.8 | 205.1 | 204.4 | 204.2 | 204.2 | 204.1 |
| 25° | 215.6 | 214.7 | 213.7 | 213.0 | 212.3 | 211.8 | 211.8 | 211.8 |
| 27.5° | 224.3 | 223.3 | 221.8 | 221.0 | 219.9 | 219.4 | 219.4 | 219.3 |
| 30° | 233.6 | 232.4 | 231.1 | 229.9 | 228.6 | 228.0 | 227.9 | 227.5 |
| 32.5° | 244.8 | 243.6 | 242.2 | 240.5 | 239.2 | 238.3 | 238.3 | 237.8 |
| 35° | 258.9 | 257.6 | 256.6 | 254.4 | 252.7 | 251.3 | 251.5 | 251.8 |
| 37.5° | 277.5 | 275.8 | 275.0 | 272.3 | 270.1 | 268.7 | 268.7 | 268.6 |
| 40° | 301.1 | 299.4 | 297.6 | 295.1 | 292.4 | 290.5 | 290.0 | 290.0 |
| 42.5° | 331.2 | 329.7 | 327.1 | 323.6 | 320.4 | 318.4 | 316.7 | 316.8 |
| 45° | 368.8 | 367.0 | 363.4 | 359.0 | 355.2 | 352.3 | 349.9 | 349.9 |
| 47.5° | 414.6 | 410.7 | 405.8 | 401.9 | 395.3 | 390.9 | 389.2 | 388.9 |
| 50° | 466.7 | 459.5 | 453.4 | 447.8 | 440.9 | 436.3 | 433.8 | 433.1 |
| 52.5° | 521.4 | 513.8 | 506.2 | 499.0 | 490.5 | 485.8 | 481.8 | 481.4 |
| 55° | 580.8 | 571.2 | 561.6 | 554.5 | 544.5 | 539.6 | 535.6 | 533.2 |
| 57.5° | 641.4 | 630.6 | 623.7 | 613.6 | 603.1 | 599.6 | 595.7 | 592.8 |
| 60° | 709.6 | 697.8 | 688.7 | 678.1 | 671.3 | 663.7 | 660.0 | 657.8 |
| 62.5° | 779.3 | 768.4 | 756.7 | 746.6 | 737.1 | 731.9 | 726.8 | 724.3 |
| 65° | 850.2 | 832.2 | 818.3 | 804.3 | 793.2 | 783.7 | 775.8 | 774.8 |
| 67.5° | 893.8 | 871.0 | 847.9 | 827.4 | 811.1 | 797.7 | 789.6 | 786.8 |
| 69° | 897.3 | 872.5 | 843.7 | 819.2 | 800.3 | 787.4 | 777.8 | 774.8 |
| 70° | 887.5 | 862.6 | 832.2 | 805.8 | 786.3 | 772.3 | 764.3 | 759.3 |
| 72.5° | 816.0 | 794.0 | 764.8 | 738.8 | 721.1 | 704.7 | 696.8 | 694.8 |
| 75° | 673.2 | 649.9 | 623.0 | 610.5 | 598.2 | 587.9 | 582.5 | 582.0 |
| 77.5° | 478.0 | 454.2 | 433.8 | 417.4 | 404.1 | 397.5 | 399.0 | 393.5 |
| 80° | 273.6 | 242.6 | 217.9 | 203.4 | 183.7 | 171.8 | 158.5 | 168.1 |
| 82.5° | 117.7 | 95.0 | 72.4 | 58.9 | 44.9 | 35.6 | 29.4 | 27.3 |
| 85° | 32.9 | 26.8 | 22.5 | 20.6 | 18.6 | 16.5 | 14.0 | 13.0 |
| 87.5° | 11.1 | 10.6 | 9.5 | 9.5 | 8.6 | 7.3 | 5.1 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)