

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: P593942

Luminaire Tested: **ISC-PA1A-722-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P593942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1A-722-U-T2U
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3118 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

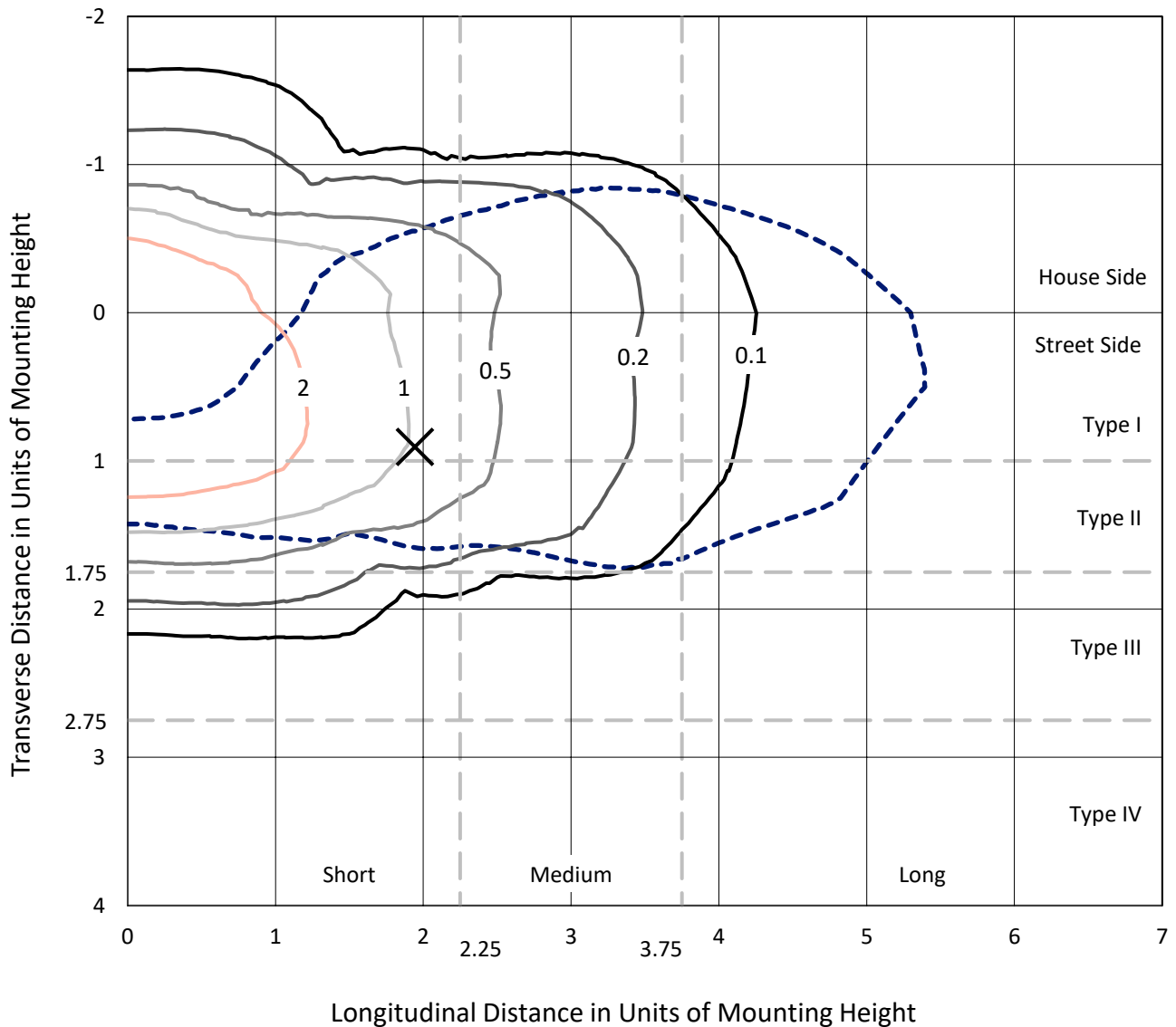
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

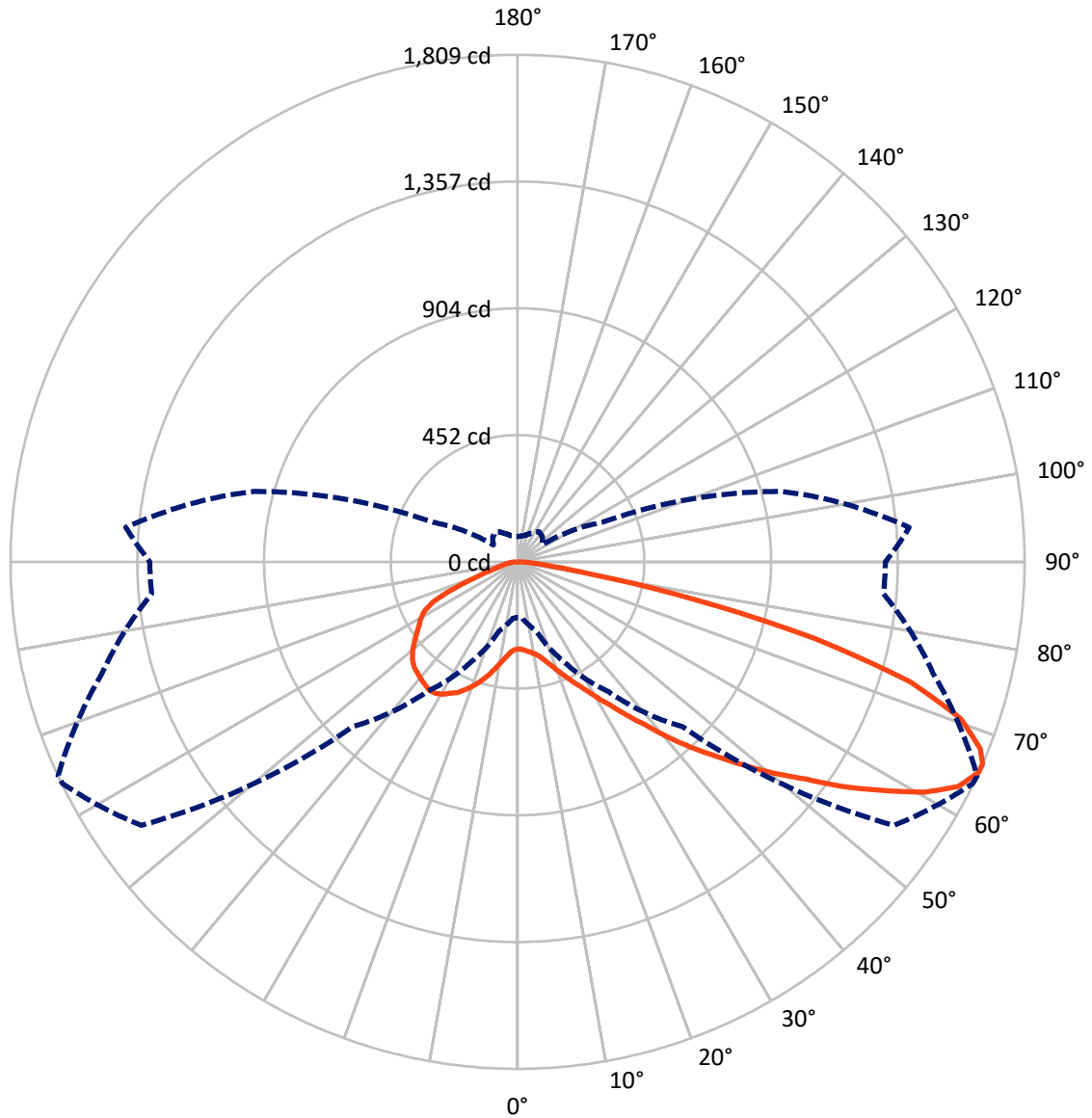
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 946.7 | 0.0 | 946.7 |
| | % Fixture | 30.4 | 0.0 | 30.4 |
| Street Side | Lumens | 2171.3 | 0.0 | 2171.3 |
| | % Fixture | 69.6 | 0.0 | 69.6 |
| Total | Lumens | 3118.0 | 0.0 | 3118.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.7 | 1.0 |
| 10°-20° | 110.5 | 3.5 |
| 20°-30° | 216.4 | 6.9 |
| 30°-40° | 353.6 | 11.3 |
| 40°-50° | 561.3 | 18.0 |
| 50°-60° | 721.9 | 23.2 |
| 60°-70° | 651.0 | 20.9 |
| 70°-80° | 403.8 | 13.0 |
| 80°-90° | 67.7 | 2.2 |
| 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° | 3118.0 | 100.0 |
| 0°-180° | 3118.0 | 100.0 |

Coefficient of Utilization

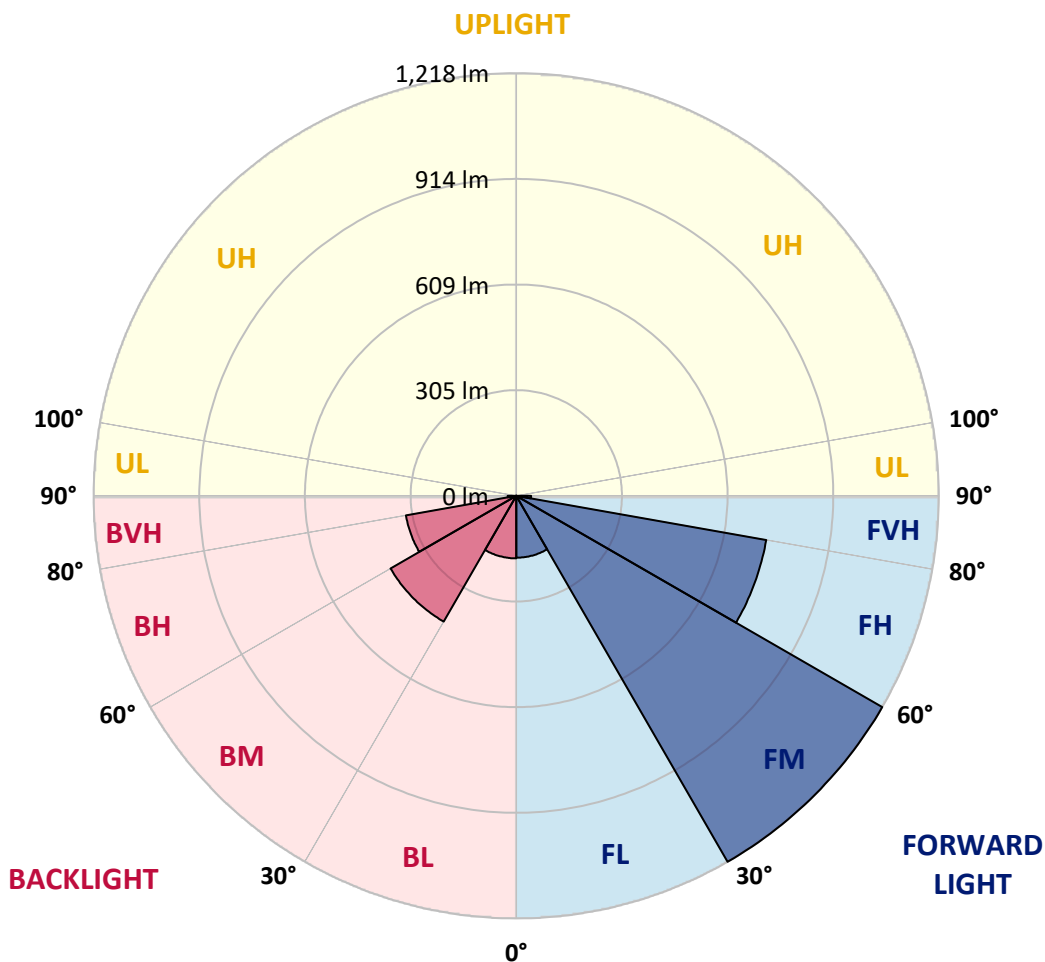


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 178.3 | 5.7 | | | |
| FM (30°-60°) | 1218.3 | 39.1 | | | |
| FH (60°-80°) | 731.8 | 23.5 | | | G1/1800 |
| FVH (80°-90°) | 42.8 | 1.4 | | | G1/100 |
| BL (0°-30°) | 180.3 | 5.8 | B1/500 | | |
| BM (30°-60°) | 418.5 | 13.4 | B1/1000 | | |
| BH (60°-80°) | 323.0 | 10.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.9 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 |
| 2.5° | 311.5 | 312.3 | 313.1 | 311.5 | 313.1 | 313.8 | 312.3 | 312.3 | 313.1 | 311.5 | 311.5 |
| 5° | 309.3 | 310.0 | 311.5 | 312.3 | 315.3 | 316.8 | 317.6 | 317.6 | 318.4 | 317.6 | 318.4 |
| 7.5° | 303.2 | 303.2 | 306.3 | 307.8 | 312.3 | 317.6 | 320.6 | 325.2 | 325.2 | 325.9 | 328.2 |
| 10° | 309.3 | 309.3 | 311.5 | 313.8 | 317.6 | 322.1 | 326.7 | 332.0 | 333.5 | 338.8 | 341.8 |
| 12.5° | 318.4 | 319.9 | 322.9 | 325.9 | 330.5 | 335.7 | 339.5 | 344.8 | 345.6 | 350.9 | 356.9 |
| 15° | 333.5 | 335.0 | 336.5 | 340.3 | 346.3 | 353.1 | 359.9 | 363.7 | 365.2 | 368.3 | 372.8 |
| 17.5° | 356.2 | 357.7 | 358.4 | 360.7 | 365.2 | 374.3 | 384.1 | 387.2 | 388.7 | 388.7 | 392.5 |
| 20° | 394.7 | 394.0 | 392.5 | 387.9 | 387.9 | 396.2 | 409.9 | 415.1 | 416.7 | 413.6 | 411.4 |
| 22.5° | 439.3 | 438.6 | 432.5 | 427.2 | 423.5 | 425.0 | 438.6 | 447.7 | 446.9 | 440.9 | 431.8 |
| 25° | 497.6 | 499.1 | 489.2 | 475.6 | 464.3 | 461.3 | 469.6 | 478.7 | 480.2 | 468.8 | 453.7 |
| 27.5° | 567.1 | 564.9 | 559.6 | 537.6 | 515.7 | 502.1 | 506.6 | 516.5 | 517.2 | 505.1 | 480.9 |
| 30° | 648.8 | 645.0 | 631.4 | 608.7 | 574.7 | 555.8 | 552.0 | 560.3 | 562.6 | 542.2 | 507.4 |
| 32.5° | 739.5 | 735.8 | 718.4 | 683.6 | 646.5 | 614.8 | 602.7 | 614.0 | 612.5 | 589.1 | 540.7 |
| 35° | 849.2 | 848.4 | 816.7 | 773.6 | 726.7 | 684.3 | 667.7 | 667.7 | 672.2 | 637.5 | 583.0 |
| 37.5° | 995.9 | 1001.9 | 955.1 | 887.8 | 822.0 | 765.3 | 737.3 | 735.8 | 736.5 | 698.7 | 630.7 |
| 40° | 1128.2 | 1126.0 | 1098.7 | 1036.0 | 939.9 | 867.3 | 825.7 | 816.7 | 818.9 | 770.5 | 692.7 |
| 42.5° | 1204.6 | 1206.9 | 1200.1 | 1172.8 | 1088.9 | 997.4 | 926.3 | 902.1 | 902.9 | 842.4 | 751.6 |
| 45° | 1252.2 | 1254.5 | 1253.7 | 1267.4 | 1234.1 | 1147.9 | 1046.6 | 990.6 | 987.6 | 924.1 | 821.2 |
| 47.5° | 1279.5 | 1281.0 | 1290.8 | 1318.8 | 1346.0 | 1326.3 | 1179.6 | 1088.9 | 1082.9 | 1000.4 | 890.8 |
| 50° | 1249.2 | 1250.0 | 1289.3 | 1355.8 | 1422.4 | 1482.1 | 1315.8 | 1186.4 | 1184.9 | 1085.1 | 958.8 |
| 52.5° | 1090.4 | 1104.0 | 1191.0 | 1330.1 | 1479.1 | 1592.5 | 1473.0 | 1301.4 | 1288.5 | 1165.3 | 1026.9 |
| 55° | 890.0 | 896.1 | 995.9 | 1172.8 | 1468.5 | 1660.6 | 1591.8 | 1425.4 | 1416.3 | 1254.5 | 1093.4 |
| 57.5° | 694.9 | 701.0 | 819.7 | 967.2 | 1306.7 | 1656.8 | 1675.7 | 1559.2 | 1538.8 | 1332.4 | 1160.0 |
| 60° | 448.4 | 467.3 | 604.9 | 786.4 | 1057.9 | 1541.9 | 1718.0 | 1687.8 | 1668.9 | 1409.5 | 1216.7 |
| 62.5° | 304.7 | 307.8 | 394.0 | 583.0 | 791.7 | 1253.0 | 1715.0 | 1767.2 | 1764.2 | 1486.7 | 1273.4 |
| 65° | 198.1 | 202.7 | 254.8 | 394.7 | 566.4 | 831.8 | 1639.4 | 1805.8 | 1808.8 | 1534.3 | 1310.5 |
| 66° | 167.9 | 170.9 | 211.0 | 332.0 | 496.1 | 659.4 | 1572.9 | 1802.7 | 1808.8 | 1556.2 | 1321.8 |
| 67.5° | 145.9 | 148.2 | 168.6 | 245.0 | 405.3 | 474.1 | 1399.7 | 1762.7 | 1780.1 | 1576.6 | 1336.2 |
| 70° | 125.5 | 128.6 | 147.5 | 167.1 | 289.6 | 276.8 | 886.2 | 1659.8 | 1677.2 | 1586.5 | 1345.2 |
| 72.5° | 103.6 | 105.9 | 124.8 | 151.2 | 210.2 | 186.0 | 390.9 | 1420.9 | 1464.7 | 1550.2 | 1330.9 |
| 75° | 81.7 | 83.2 | 100.6 | 126.3 | 161.1 | 145.2 | 170.1 | 1042.0 | 1097.2 | 1366.4 | 1274.9 |
| 77.5° | 63.5 | 64.3 | 77.9 | 98.3 | 147.5 | 112.7 | 105.1 | 507.4 | 642.0 | 1055.6 | 1122.9 |
| 80° | 43.9 | 45.4 | 57.5 | 74.1 | 108.1 | 89.2 | 70.3 | 198.1 | 251.8 | 701.0 | 851.5 |
| 82.5° | 28.7 | 29.5 | 39.3 | 56.0 | 71.8 | 85.4 | 46.1 | 96.0 | 105.9 | 322.9 | 369.0 |
| 85° | 19.7 | 19.7 | 28.0 | 34.8 | 49.2 | 56.7 | 30.2 | 50.7 | 55.2 | 122.5 | 44.6 |
| 87.5° | 9.8 | 9.8 | 13.6 | 18.1 | 23.4 | 21.9 | 18.1 | 18.1 | 18.1 | 40.1 | 12.9 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 | 310.8 |
| 2.5° | 312.3 | 312.3 | 313.1 | 313.8 | 314.6 | 314.6 | 315.3 | 315.3 | 314.6 | 315.3 | 316.1 |
| 5° | 319.1 | 319.9 | 321.4 | 323.6 | 327.4 | 331.2 | 335.0 | 337.3 | 339.5 | 340.3 | 338.8 |
| 7.5° | 329.7 | 331.2 | 336.5 | 342.5 | 348.6 | 357.7 | 363.0 | 366.0 | 367.5 | 369.0 | 367.5 |
| 10° | 343.3 | 346.3 | 353.9 | 364.5 | 375.1 | 386.4 | 392.5 | 397.0 | 397.8 | 399.3 | 397.8 |
| 12.5° | 359.2 | 364.5 | 375.8 | 390.9 | 403.8 | 415.1 | 419.7 | 416.7 | 409.9 | 406.8 | 406.1 |
| 15° | 378.1 | 383.4 | 399.3 | 418.2 | 433.3 | 438.6 | 431.8 | 421.9 | 414.4 | 413.6 | 412.9 |
| 17.5° | 394.7 | 402.3 | 424.2 | 443.9 | 458.2 | 453.0 | 434.8 | 428.8 | 426.5 | 429.5 | 428.8 |
| 20° | 415.9 | 421.9 | 443.9 | 468.1 | 475.6 | 455.2 | 442.4 | 438.6 | 436.3 | 436.3 | 434.8 |
| 22.5° | 433.3 | 437.8 | 464.3 | 490.8 | 486.2 | 456.7 | 447.7 | 440.1 | 432.5 | 431.8 | 429.5 |
| 25° | 453.7 | 455.2 | 483.2 | 511.9 | 487.7 | 458.2 | 442.4 | 429.5 | 421.9 | 419.7 | 420.4 |
| 27.5° | 472.6 | 476.4 | 500.6 | 526.3 | 484.0 | 449.9 | 424.2 | 407.6 | 396.2 | 395.5 | 395.5 |
| 30° | 496.8 | 496.8 | 518.7 | 542.2 | 475.6 | 428.8 | 394.7 | 370.5 | 361.5 | 360.7 | 359.2 |
| 32.5° | 524.0 | 519.5 | 540.7 | 553.5 | 457.5 | 400.0 | 354.6 | 327.4 | 313.1 | 310.0 | 307.8 |
| 35° | 561.8 | 552.0 | 567.1 | 555.8 | 439.3 | 359.2 | 304.0 | 273.0 | 262.4 | 257.9 | 257.9 |
| 37.5° | 605.7 | 591.3 | 607.2 | 549.0 | 411.4 | 311.5 | 251.1 | 227.6 | 216.3 | 209.5 | 211.7 |
| 40° | 657.1 | 639.0 | 648.0 | 541.4 | 381.1 | 258.6 | 207.2 | 192.8 | 179.2 | 170.1 | 170.1 |
| 42.5° | 717.6 | 687.4 | 694.2 | 533.9 | 338.0 | 212.5 | 179.2 | 169.4 | 158.8 | 149.7 | 152.0 |
| 45° | 775.8 | 746.4 | 739.5 | 526.3 | 292.6 | 181.5 | 167.9 | 161.1 | 151.2 | 140.6 | 140.6 |
| 47.5° | 843.1 | 805.3 | 779.6 | 512.7 | 248.0 | 171.7 | 170.9 | 161.1 | 142.2 | 127.0 | 125.5 |
| 50° | 906.7 | 871.9 | 815.9 | 492.3 | 223.1 | 180.0 | 170.1 | 146.7 | 128.6 | 118.7 | 118.0 |
| 52.5° | 974.0 | 937.7 | 845.4 | 467.3 | 210.2 | 176.2 | 156.5 | 134.6 | 121.0 | 111.2 | 108.9 |
| 55° | 1040.5 | 1021.6 | 871.9 | 443.1 | 189.8 | 164.1 | 145.2 | 127.0 | 112.7 | 103.6 | 102.1 |
| 57.5° | 1116.1 | 1108.6 | 894.6 | 418.9 | 158.0 | 149.0 | 136.9 | 121.7 | 108.1 | 101.3 | 100.6 |
| 60° | 1181.9 | 1208.4 | 921.8 | 400.8 | 134.6 | 137.6 | 133.1 | 121.0 | 111.2 | 103.6 | 103.6 |
| 62.5° | 1251.5 | 1304.4 | 946.0 | 377.3 | 117.2 | 130.8 | 133.8 | 120.2 | 107.4 | 100.6 | 100.6 |
| 65° | 1312.0 | 1402.7 | 970.9 | 334.2 | 105.1 | 125.5 | 131.6 | 111.9 | 96.8 | 91.5 | 90.0 |
| 66° | 1337.7 | 1430.7 | 978.5 | 307.8 | 100.6 | 121.7 | 127.8 | 107.4 | 92.3 | 87.7 | 87.0 |
| 67.5° | 1367.9 | 1474.6 | 987.6 | 251.1 | 93.8 | 113.4 | 119.5 | 100.6 | 84.7 | 81.7 | 80.2 |
| 70° | 1410.3 | 1483.6 | 982.3 | 164.1 | 81.7 | 97.5 | 106.6 | 90.0 | 75.6 | 73.3 | 71.1 |
| 72.5° | 1414.8 | 1421.6 | 929.3 | 103.6 | 71.1 | 83.9 | 93.8 | 80.9 | 66.5 | 64.3 | 62.8 |
| 75° | 1340.0 | 1259.8 | 786.4 | 74.1 | 62.8 | 74.1 | 82.4 | 70.3 | 55.2 | 52.2 | 50.7 |
| 77.5° | 1144.1 | 999.7 | 565.6 | 55.2 | 54.4 | 63.5 | 68.8 | 61.3 | 46.1 | 43.9 | 43.1 |
| 80° | 803.1 | 678.3 | 283.6 | 41.6 | 43.1 | 52.9 | 57.5 | 51.4 | 38.6 | 35.5 | 34.0 |
| 82.5° | 325.2 | 288.1 | 97.5 | 31.0 | 32.5 | 40.1 | 49.2 | 42.3 | 29.5 | 25.7 | 22.7 |
| 85° | 37.1 | 62.8 | 42.3 | 21.2 | 21.9 | 27.2 | 33.3 | 25.7 | 17.4 | 14.4 | 12.1 |
| 87.5° | 7.6 | 13.6 | 15.1 | 8.3 | 7.6 | 10.6 | 15.1 | 9.1 | 6.0 | 2.3 | 3.0 |
| 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)