

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: P200379

Luminaire Tested: **GPC-AF-01-LED-E1-5MQ-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-5MQ-7060-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

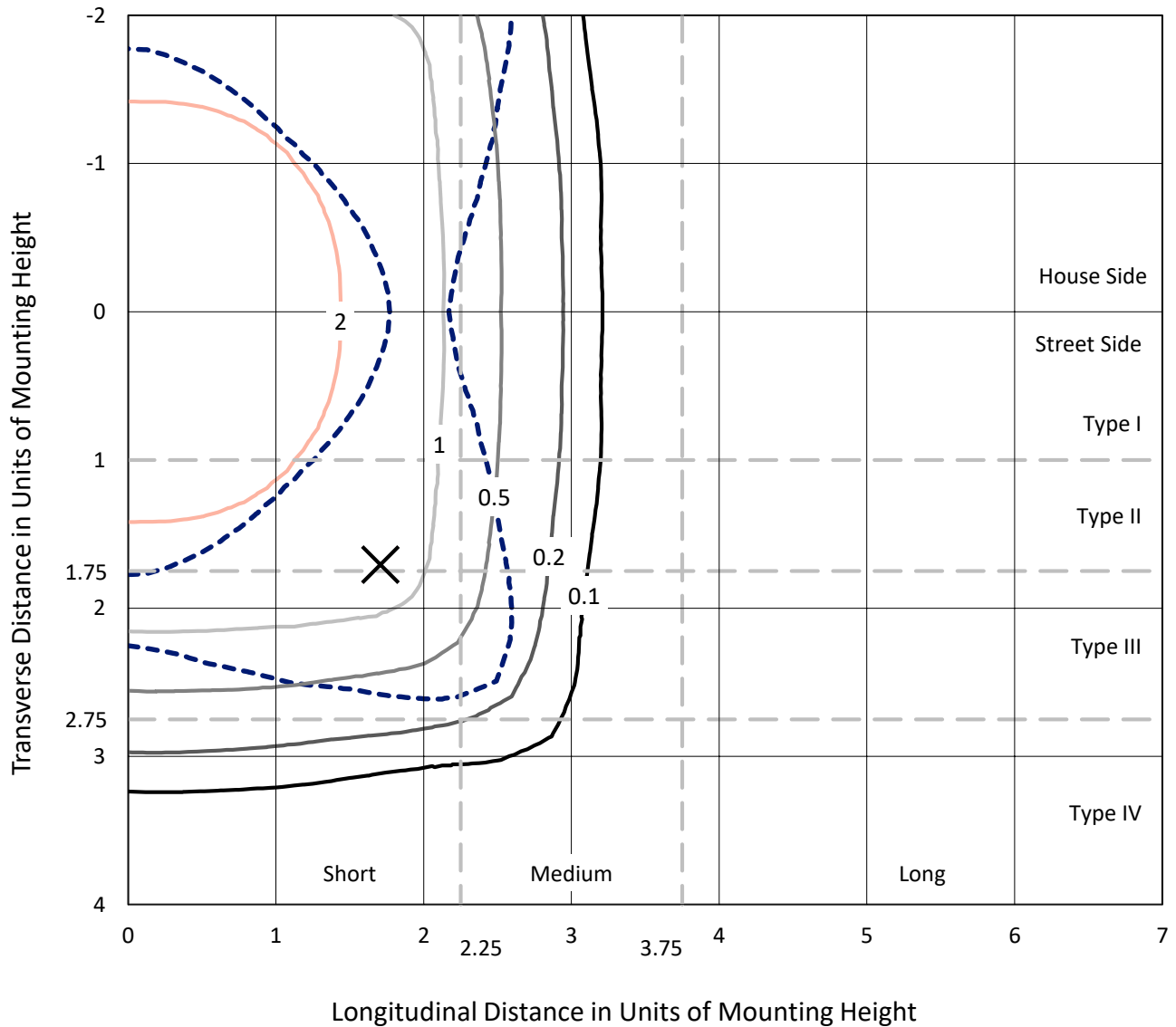
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

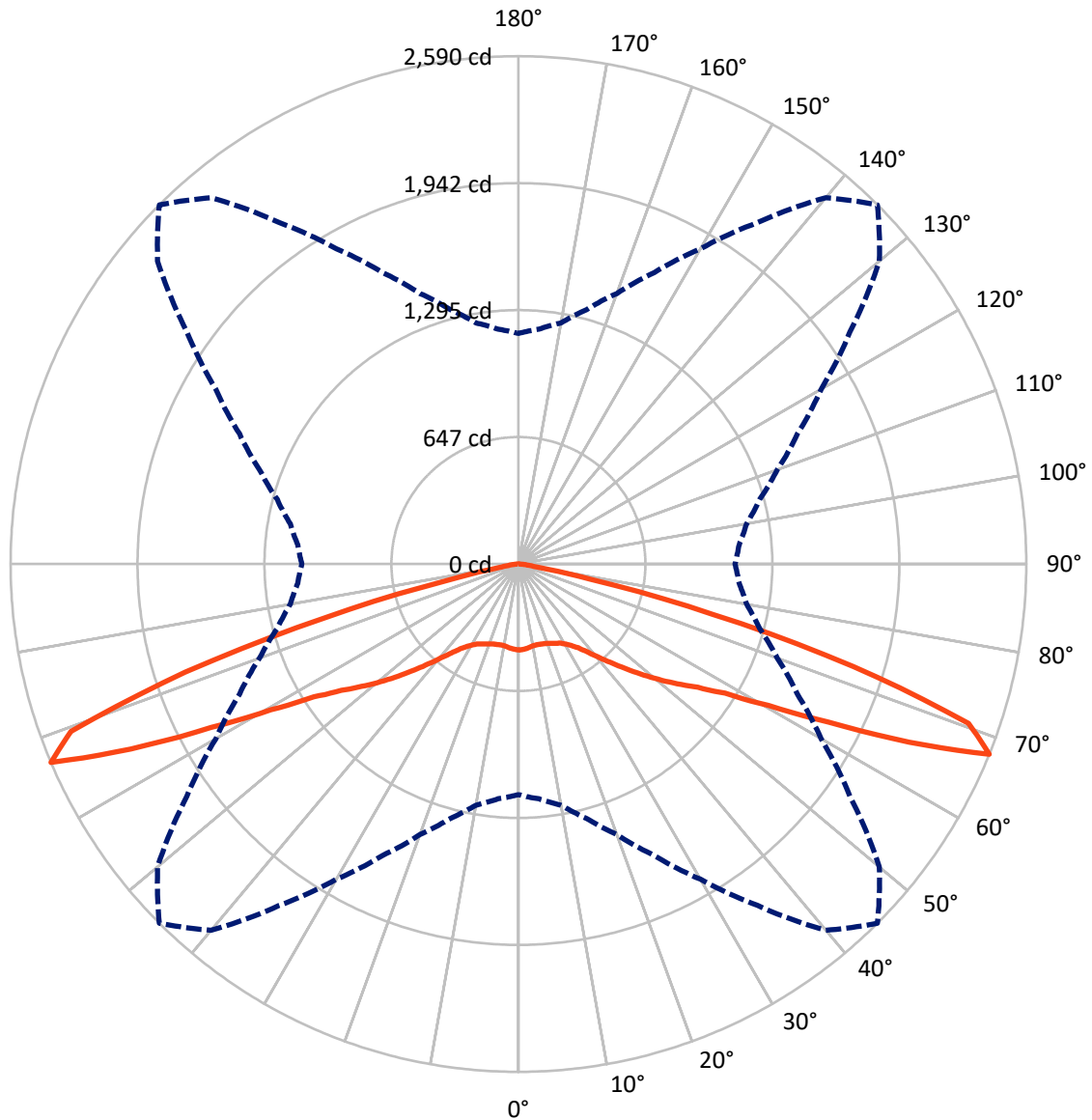
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2200.0 | 0.0 | 2200.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2200.0 | 0.0 | 2200.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4400.0 | 0.0 | 4400.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.0 | 0.9 |
| 10°-20° | 119.1 | 2.7 |
| 20°-30° | 202.5 | 4.6 |
| 30°-40° | 330.9 | 7.5 |
| 40°-50° | 590.8 | 13.4 |
| 50°-60° | 996.1 | 22.6 |
| 60°-70° | 1545.8 | 35.1 |
| 70°-80° | 543.1 | 12.3 |
| 80°-90° | 30.7 | 0.7 |
| 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° | 4400.0 | 100.0 |
| 0°-180° | 4400.0 | 100.0 |



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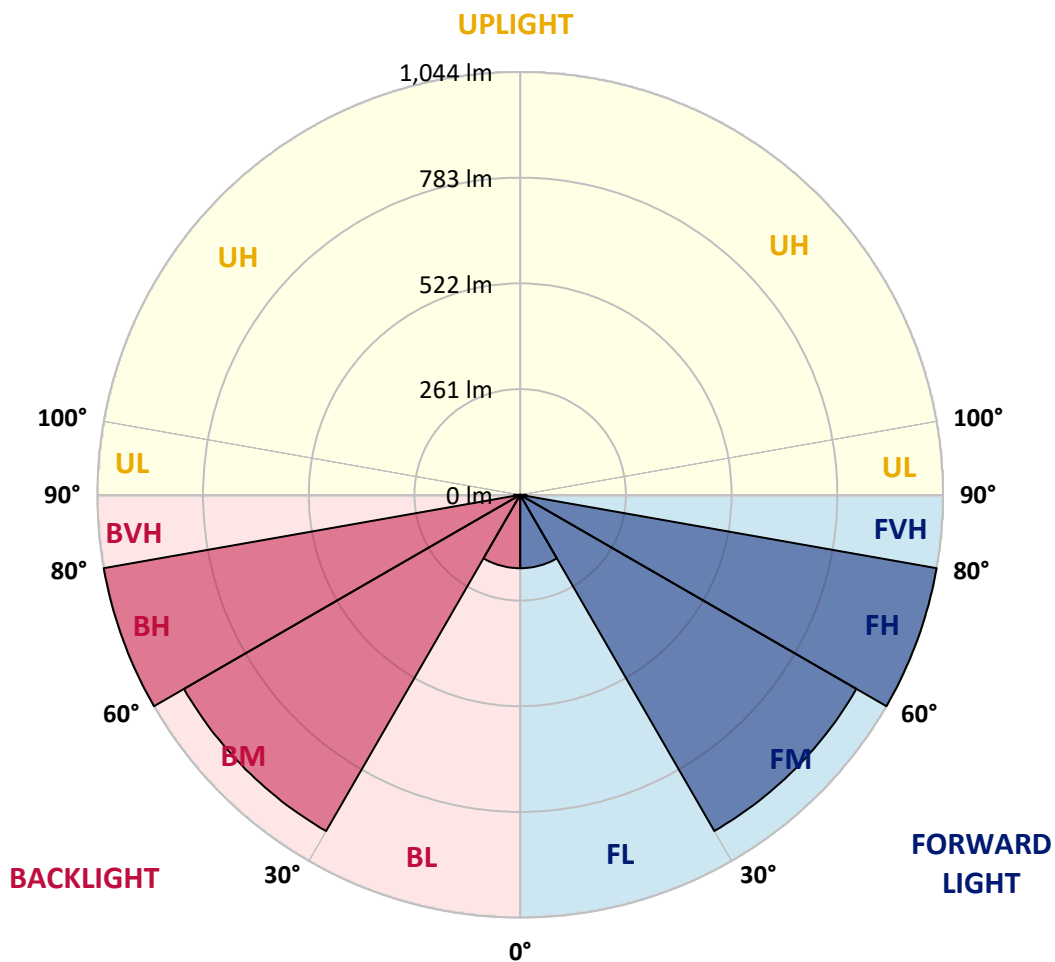
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 181.3 | 4.1 | | | |
| FM | (30°-60°) | 958.9 | 21.8 | | | |
| FH | (60°-80°) | 1044.5 | 23.7 | | | G1/1800 |
| FVH | (80°-90°) | 15.3 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 181.3 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 958.9 | 21.8 | B1/1000 | | |
| BH | (60°-80°) | 1044.5 | 23.7 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 15.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 |
| 2.5° | 436.9 | 437.3 | 437.3 | 437.3 | 437.1 | 437.1 | 436.7 | 437.1 | 436.9 | 436.3 | 436.5 |
| 5° | 433.2 | 433.6 | 433.6 | 433.4 | 434.0 | 433.8 | 433.2 | 433.6 | 433.4 | 433.0 | 433.2 |
| 7.5° | 428.0 | 428.6 | 428.6 | 428.4 | 429.0 | 428.8 | 428.4 | 428.6 | 428.6 | 428.0 | 428.0 |
| 10° | 422.1 | 422.5 | 422.5 | 422.3 | 423.3 | 423.3 | 423.1 | 423.7 | 423.9 | 423.3 | 422.9 |
| 12.5° | 416.6 | 417.2 | 417.2 | 418.0 | 419.1 | 419.5 | 420.5 | 421.3 | 422.1 | 421.9 | 421.1 |
| 15° | 413.4 | 413.8 | 414.6 | 415.6 | 417.2 | 418.6 | 420.3 | 422.1 | 423.7 | 424.1 | 422.9 |
| 17.5° | 411.4 | 412.0 | 413.2 | 414.6 | 416.8 | 419.3 | 421.7 | 424.1 | 426.3 | 427.1 | 425.7 |
| 20° | 410.8 | 411.2 | 412.4 | 414.8 | 417.8 | 421.5 | 424.9 | 427.8 | 430.8 | 431.8 | 430.8 |
| 22.5° | 412.0 | 412.8 | 414.2 | 417.0 | 421.1 | 425.7 | 429.8 | 433.6 | 437.5 | 439.3 | 437.9 |
| 25° | 417.4 | 418.2 | 420.1 | 423.7 | 428.2 | 433.0 | 437.7 | 442.1 | 445.6 | 447.4 | 446.4 |
| 27.5° | 427.6 | 428.6 | 430.8 | 434.4 | 439.3 | 444.5 | 449.6 | 453.2 | 456.1 | 456.7 | 455.5 |
| 30° | 442.7 | 445.0 | 447.6 | 451.6 | 457.3 | 461.7 | 466.8 | 470.0 | 473.5 | 473.5 | 472.5 |
| 32.5° | 466.4 | 468.6 | 471.5 | 475.3 | 479.8 | 484.6 | 489.1 | 491.9 | 495.5 | 495.7 | 493.3 |
| 35° | 501.8 | 502.8 | 505.3 | 507.7 | 511.7 | 516.0 | 519.8 | 521.6 | 524.7 | 524.9 | 522.7 |
| 37.5° | 548.6 | 548.8 | 550.4 | 551.2 | 554.8 | 559.5 | 563.1 | 564.3 | 567.2 | 566.8 | 564.5 |
| 40° | 603.0 | 604.0 | 604.6 | 605.8 | 609.7 | 614.1 | 618.0 | 618.6 | 621.6 | 621.0 | 618.2 |
| 42.5° | 665.9 | 666.3 | 669.8 | 671.6 | 675.2 | 677.4 | 682.3 | 682.9 | 686.6 | 684.9 | 681.7 |
| 45° | 736.5 | 740.2 | 743.4 | 747.1 | 750.9 | 753.5 | 757.4 | 756.6 | 759.0 | 756.6 | 754.7 |
| 47.5° | 810.8 | 813.4 | 820.7 | 826.4 | 832.6 | 834.9 | 840.3 | 837.9 | 840.3 | 836.9 | 836.3 |
| 50° | 892.5 | 897.2 | 903.5 | 909.9 | 916.6 | 920.3 | 927.3 | 924.3 | 927.5 | 924.3 | 922.5 |
| 52.5° | 973.1 | 974.3 | 988.0 | 997.6 | 1006.9 | 1011.1 | 1015.4 | 1013.9 | 1014.1 | 1013.9 | 1012.1 |
| 55° | 1049.6 | 1052.4 | 1066.1 | 1079.1 | 1095.3 | 1107.2 | 1114.5 | 1113.7 | 1111.9 | 1110.1 | 1107.0 |
| 57.5° | 1135.8 | 1138.6 | 1154.4 | 1170.4 | 1188.8 | 1205.8 | 1220.5 | 1235.7 | 1241.6 | 1243.2 | 1236.5 |
| 60° | 1252.3 | 1252.1 | 1273.1 | 1292.6 | 1318.9 | 1344.2 | 1376.5 | 1409.5 | 1447.4 | 1465.0 | 1441.7 |
| 62.5° | 1370.9 | 1375.7 | 1406.1 | 1440.5 | 1494.7 | 1547.5 | 1607.2 | 1665.9 | 1725.8 | 1774.6 | 1722.8 |
| 65° | 1356.7 | 1375.3 | 1420.5 | 1498.4 | 1598.5 | 1717.5 | 1846.2 | 1982.4 | 2105.4 | 2190.0 | 2095.1 |
| 67.5° | 1175.8 | 1202.3 | 1248.3 | 1343.0 | 1468.2 | 1639.8 | 1855.9 | 2125.2 | 2438.2 | 2589.6 | 2402.0 |
| 70° | 852.3 | 882.2 | 930.4 | 1022.8 | 1146.9 | 1310.0 | 1544.7 | 1868.0 | 2282.4 | 2435.0 | 2228.4 |
| 72.5° | 424.1 | 440.3 | 470.0 | 528.9 | 622.8 | 755.1 | 968.0 | 1278.8 | 1645.5 | 1785.5 | 1596.7 |
| 75° | 144.1 | 151.6 | 156.6 | 175.8 | 205.6 | 257.6 | 363.4 | 559.1 | 852.9 | 1022.4 | 840.7 |
| 77.5° | 83.2 | 83.4 | 86.8 | 90.2 | 95.3 | 101.0 | 115.1 | 151.2 | 261.4 | 371.3 | 270.5 |
| 80° | 53.8 | 53.6 | 56.5 | 59.1 | 62.5 | 65.4 | 66.2 | 70.0 | 80.7 | 95.7 | 85.6 |
| 82.5° | 27.9 | 31.4 | 37.6 | 41.1 | 47.6 | 48.8 | 47.1 | 45.7 | 48.4 | 50.2 | 51.4 |
| 85° | 15.4 | 13.4 | 20.0 | 25.9 | 28.7 | 29.1 | 29.1 | 27.5 | 28.5 | 27.9 | 30.4 |
| 87.5° | 7.1 | 6.5 | 7.9 | 12.7 | 13.6 | 11.5 | 12.1 | 10.7 | 7.7 | 7.5 | 8.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 | 438.5 |
| 2.5° | 436.5 | 436.7 | 436.7 | 437.3 | 437.5 | 437.9 | 438.3 | 438.5 |
| 5° | 433.0 | 433.6 | 433.2 | 433.8 | 433.8 | 434.2 | 434.2 | 434.4 |
| 7.5° | 428.0 | 428.6 | 428.6 | 428.6 | 428.4 | 429.0 | 429.0 | 429.0 |
| 10° | 422.7 | 423.1 | 422.9 | 422.5 | 422.1 | 422.7 | 422.5 | 422.3 |
| 12.5° | 421.1 | 420.1 | 419.3 | 418.9 | 418.0 | 418.2 | 417.6 | 417.6 |
| 15° | 422.1 | 420.3 | 418.9 | 418.2 | 417.4 | 417.0 | 416.6 | 416.8 |
| 17.5° | 424.7 | 422.5 | 420.7 | 419.7 | 418.6 | 418.0 | 417.2 | 417.4 |
| 20° | 429.4 | 426.7 | 424.1 | 422.1 | 420.3 | 419.3 | 418.6 | 418.4 |
| 22.5° | 436.3 | 432.4 | 428.6 | 425.5 | 423.1 | 421.7 | 421.1 | 420.7 |
| 25° | 444.1 | 439.9 | 435.4 | 432.0 | 429.6 | 427.8 | 426.5 | 426.5 |
| 27.5° | 454.1 | 450.6 | 446.6 | 442.5 | 440.3 | 438.5 | 437.7 | 437.3 |
| 30° | 470.7 | 467.4 | 464.2 | 460.3 | 457.5 | 455.7 | 454.3 | 453.0 |
| 32.5° | 491.9 | 489.3 | 486.6 | 483.8 | 481.2 | 478.7 | 476.5 | 475.5 |
| 35° | 521.8 | 519.8 | 518.0 | 514.8 | 513.8 | 512.3 | 511.1 | 510.1 |
| 37.5° | 563.1 | 562.3 | 562.3 | 558.9 | 558.1 | 557.5 | 556.2 | 556.4 |
| 40° | 617.4 | 618.2 | 617.1 | 615.9 | 615.3 | 613.7 | 613.7 | 615.1 |
| 42.5° | 681.5 | 682.1 | 684.3 | 682.3 | 684.5 | 682.5 | 681.3 | 682.3 |
| 45° | 756.0 | 758.2 | 762.6 | 760.6 | 762.0 | 758.6 | 754.3 | 754.5 |
| 47.5° | 839.5 | 841.5 | 843.4 | 842.0 | 842.2 | 836.5 | 830.8 | 829.4 |
| 50° | 926.3 | 927.1 | 928.2 | 926.1 | 926.5 | 920.3 | 913.8 | 914.0 |
| 52.5° | 1012.1 | 1016.0 | 1020.0 | 1014.6 | 1013.3 | 1006.3 | 997.1 | 993.5 |
| 55° | 1110.3 | 1115.7 | 1111.1 | 1101.6 | 1092.0 | 1082.5 | 1070.6 | 1068.6 |
| 57.5° | 1231.3 | 1222.0 | 1207.4 | 1189.4 | 1176.2 | 1162.9 | 1150.7 | 1145.7 |
| 60° | 1399.6 | 1364.6 | 1338.3 | 1311.6 | 1294.8 | 1278.4 | 1262.4 | 1260.0 |
| 62.5° | 1637.6 | 1577.1 | 1524.7 | 1469.4 | 1424.3 | 1389.1 | 1361.0 | 1353.1 |
| 65° | 1935.8 | 1792.8 | 1668.7 | 1553.0 | 1452.4 | 1376.5 | 1328.8 | 1307.7 |
| 67.5° | 2064.1 | 1781.6 | 1569.0 | 1404.7 | 1273.1 | 1181.3 | 1129.7 | 1104.0 |
| 70° | 1813.8 | 1477.5 | 1246.2 | 1081.7 | 961.9 | 864.0 | 817.3 | 789.7 |
| 72.5° | 1247.9 | 939.9 | 743.2 | 606.6 | 510.9 | 429.0 | 396.6 | 394.2 |
| 75° | 560.3 | 371.1 | 255.8 | 197.1 | 165.9 | 144.3 | 137.6 | 132.5 |
| 77.5° | 156.8 | 115.9 | 103.4 | 96.7 | 90.2 | 82.8 | 79.9 | 80.5 |
| 80° | 76.3 | 72.0 | 69.2 | 65.0 | 59.1 | 52.8 | 50.0 | 51.2 |
| 82.5° | 50.6 | 50.0 | 51.8 | 48.8 | 40.3 | 34.2 | 28.7 | 26.3 |
| 85° | 30.8 | 31.2 | 31.8 | 32.0 | 27.1 | 19.0 | 12.9 | 14.6 |
| 87.5° | 12.1 | 14.0 | 15.2 | 15.8 | 14.8 | 9.1 | 7.3 | 7.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)