

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: P529851

Luminaire Tested: **GALN-SA5A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12585 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

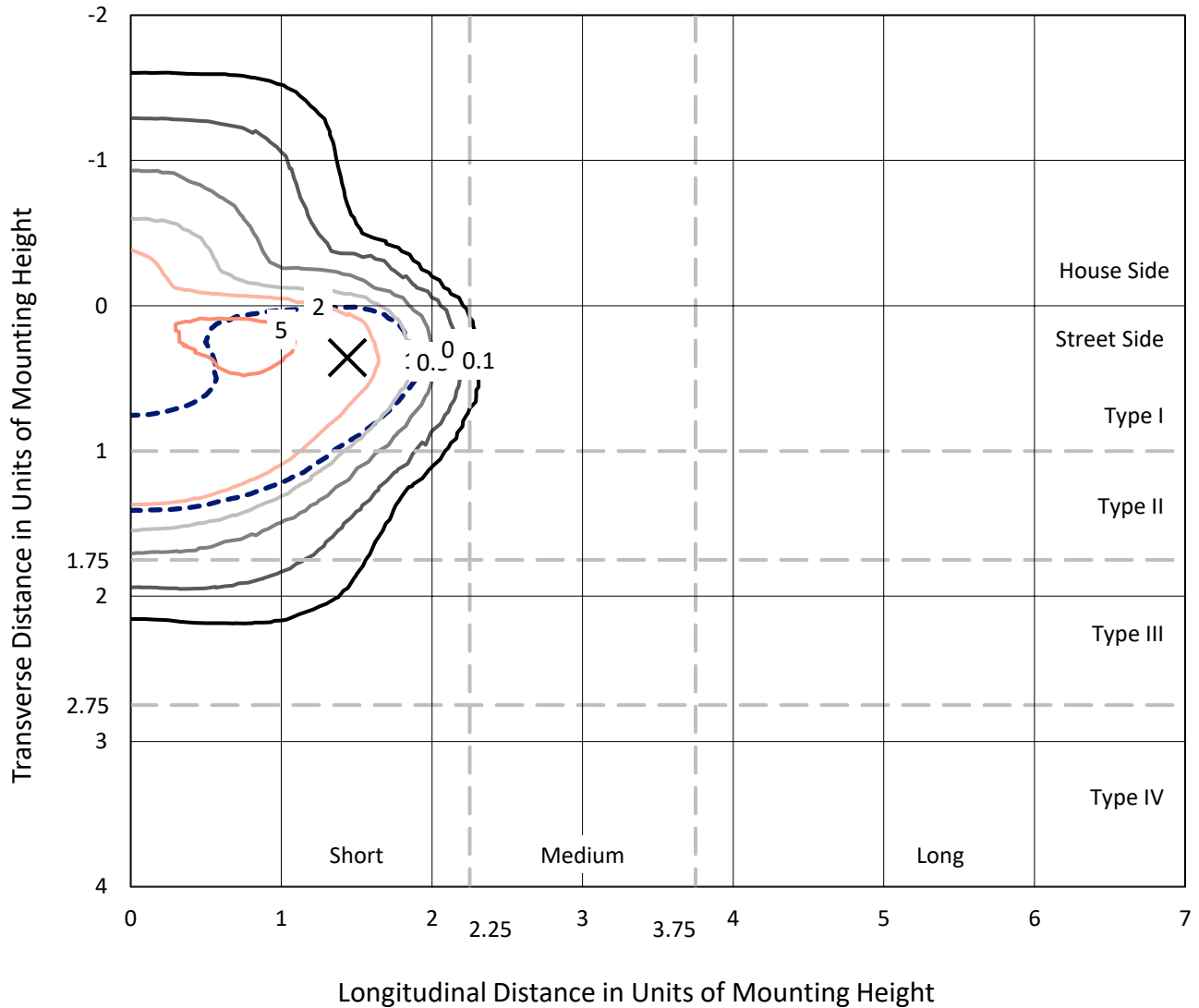
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

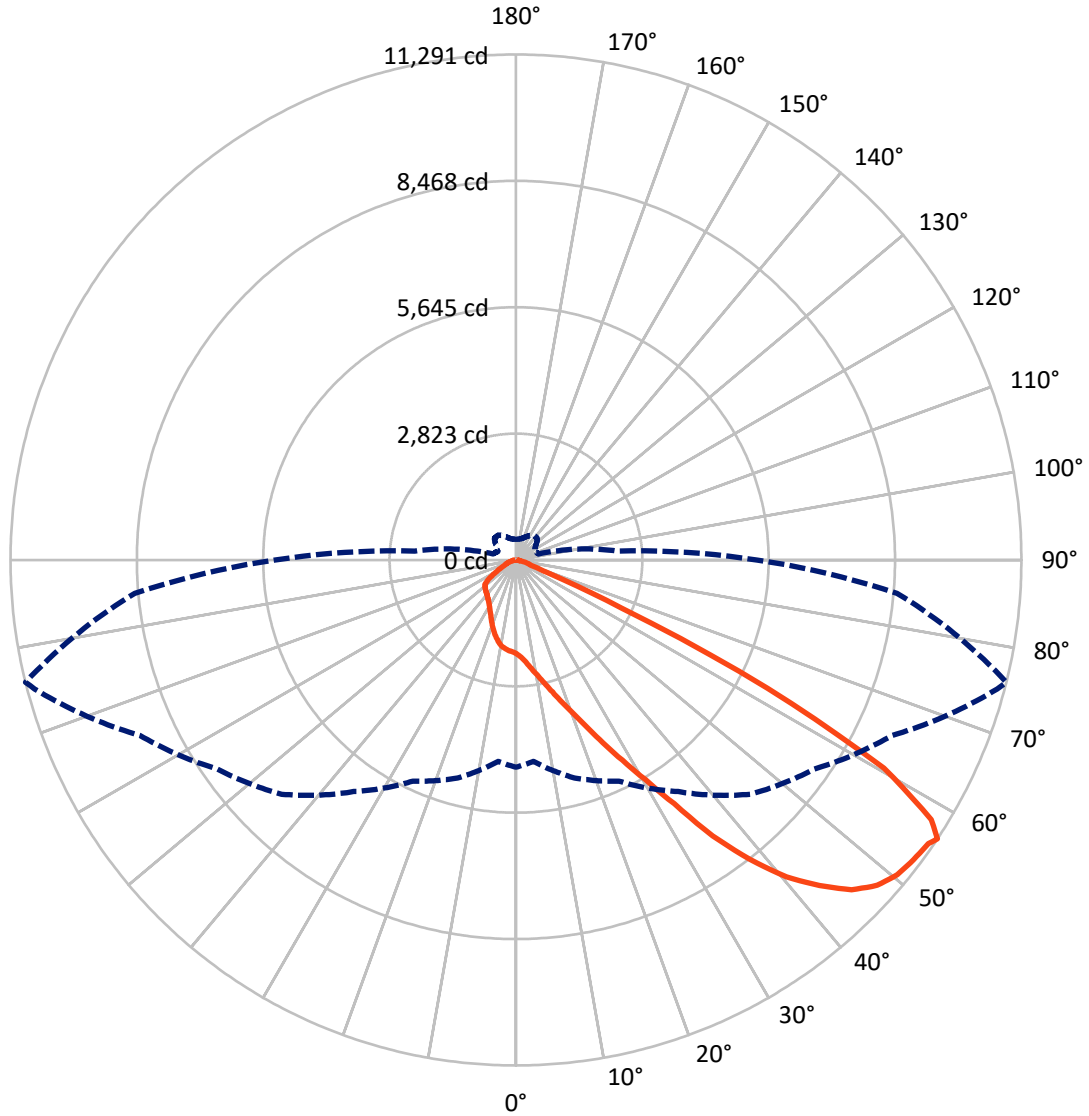
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1977.0 | 0.0 | 1977.0 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 10608.0 | 0.0 | 10608.0 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 12585.0 | 0.0 | 12585.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 211.0 | 1.7 |
| 10°-20° | 677.9 | 5.4 |
| 20°-30° | 1229.3 | 9.8 |
| 30°-40° | 2119.9 | 16.8 |
| 40°-50° | 3443.9 | 27.4 |
| 50°-60° | 3630.0 | 28.8 |
| 60°-70° | 1109.1 | 8.8 |
| 70°-80° | 142.2 | 1.1 |
| 80°-90° | 21.6 | 0.2 |
| 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° | 12585.0 | 100.0 |
| 0°-180° | 12585.0 | 100.0 |

Coefficient of Utilization

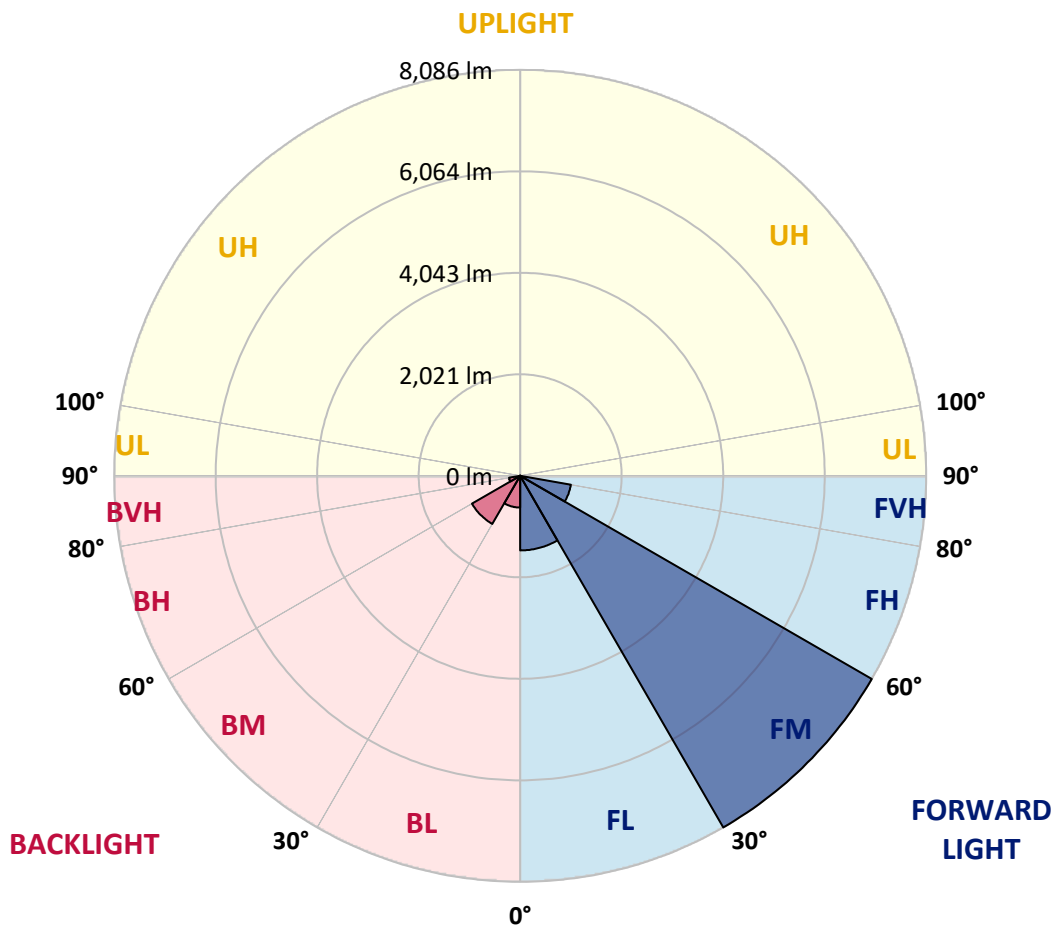


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1485.8 | 11.8 | | | |
| FM (30°-60°) | 8085.8 | 64.2 | | | |
| FH (60°-80°) | 1025.8 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 10.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 632.5 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1108.0 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 225.6 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.0 | 0.1 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 |
| 2.5° | 2412.6 | 2356.9 | 2359.3 | 2354.6 | 2347.7 | 2322.1 | 2245.6 | 2234.0 | 2182.9 | 2169.0 | 2122.6 |
| 5° | 2702.6 | 2653.9 | 2681.7 | 2639.9 | 2600.5 | 2577.3 | 2452.0 | 2394.0 | 2312.9 | 2282.7 | 2217.7 |
| 7.5° | 2883.5 | 2860.3 | 2851.1 | 2853.4 | 2816.3 | 2758.3 | 2702.6 | 2575.0 | 2466.0 | 2442.8 | 2305.9 |
| 10° | 2971.7 | 2957.8 | 2971.7 | 2964.7 | 2981.0 | 2987.9 | 2890.5 | 2813.9 | 2653.9 | 2614.4 | 2401.0 |
| 12.5° | 2992.6 | 3020.4 | 3032.0 | 3062.2 | 3101.6 | 3168.9 | 3161.9 | 3057.5 | 2844.1 | 2818.6 | 2547.2 |
| 15° | 3043.6 | 3066.8 | 3055.2 | 3103.9 | 3178.1 | 3291.8 | 3352.1 | 3335.9 | 3106.2 | 3059.8 | 2716.5 |
| 17.5° | 3090.0 | 3048.2 | 3087.7 | 3185.1 | 3259.3 | 3433.3 | 3579.5 | 3646.7 | 3391.6 | 3338.2 | 2871.9 |
| 20° | 3152.6 | 3141.0 | 3134.1 | 3182.8 | 3315.0 | 3547.0 | 3837.0 | 3959.9 | 3711.7 | 3656.0 | 3094.6 |
| 22.5° | 3342.9 | 3345.2 | 3340.5 | 3268.6 | 3363.7 | 3625.9 | 4062.0 | 4365.9 | 4094.5 | 4048.1 | 3347.5 |
| 25° | 3593.4 | 3563.2 | 3540.0 | 3482.0 | 3470.4 | 3697.8 | 4289.3 | 4862.3 | 4553.8 | 4521.3 | 3621.2 |
| 27.5° | 3857.9 | 3857.9 | 3788.3 | 3734.9 | 3660.7 | 3876.4 | 4498.1 | 5344.9 | 5108.2 | 5064.2 | 3860.2 |
| 30° | 4145.5 | 4161.7 | 4152.5 | 4038.8 | 3992.4 | 4071.3 | 4711.5 | 5961.9 | 5743.9 | 5688.2 | 4254.5 |
| 32.5° | 4570.0 | 4535.2 | 4574.7 | 4479.6 | 4342.7 | 4412.3 | 5047.9 | 6514.0 | 6569.7 | 6490.8 | 4771.9 |
| 35° | 5131.4 | 5110.6 | 5085.0 | 4929.6 | 4767.2 | 4822.9 | 5523.5 | 7193.7 | 7606.7 | 7567.2 | 5293.8 |
| 37.5° | 5634.8 | 5623.2 | 5602.4 | 5495.6 | 5307.7 | 5375.0 | 6064.0 | 7901.3 | 8618.1 | 8488.2 | 6031.5 |
| 40° | 6163.7 | 6226.4 | 6159.1 | 6064.0 | 5892.3 | 6040.8 | 6699.6 | 8321.2 | 9469.5 | 9311.7 | 6595.2 |
| 42.5° | 6880.6 | 6831.9 | 6862.0 | 6688.0 | 6595.2 | 6757.6 | 7337.6 | 8741.1 | 10130.6 | 9942.7 | 7193.7 |
| 45° | 7643.8 | 7646.1 | 7564.9 | 7509.2 | 7268.0 | 7444.3 | 7729.6 | 8973.0 | 10657.2 | 10511.1 | 7646.1 |
| 47.5° | 8133.3 | 8130.9 | 8219.1 | 8307.3 | 8059.0 | 7885.0 | 7996.4 | 9193.4 | 10928.6 | 10861.4 | 7810.8 |
| 50° | 8056.7 | 8079.9 | 8193.6 | 8523.0 | 8652.9 | 8418.6 | 8246.9 | 9128.5 | 11051.6 | 11044.6 | 7952.3 |
| 52.5° | 7008.2 | 7084.7 | 7274.9 | 7750.5 | 8404.7 | 8694.7 | 8509.1 | 9249.1 | 11111.9 | 11123.5 | 8163.4 |
| 55° | 5335.6 | 5377.3 | 5739.2 | 6316.9 | 7040.6 | 8033.5 | 8404.7 | 9344.2 | 11158.3 | 11179.2 | 8418.6 |
| 56° | 4628.0 | 4516.7 | 5038.6 | 5449.2 | 6314.5 | 7400.2 | 8140.2 | 9270.0 | 11130.5 | 11290.5 | 8546.2 |
| 57.5° | 3493.6 | 3419.4 | 3841.6 | 4354.3 | 5187.1 | 6333.1 | 7319.0 | 8919.7 | 10942.6 | 10940.2 | 8362.9 |
| 60° | 2124.9 | 2050.7 | 2375.5 | 2677.1 | 3143.3 | 3899.6 | 4945.8 | 7103.3 | 9251.4 | 9446.3 | 6771.5 |
| 62.5° | 1264.3 | 1310.7 | 1630.8 | 1814.1 | 1964.9 | 2043.8 | 2558.8 | 4222.1 | 6173.0 | 6312.2 | 4201.2 |
| 65° | 842.1 | 858.3 | 1099.6 | 1401.2 | 1468.4 | 1169.2 | 1041.6 | 1709.7 | 2677.1 | 2591.2 | 1732.9 |
| 67.5° | 519.6 | 556.8 | 737.7 | 1053.2 | 1166.9 | 853.7 | 494.1 | 637.9 | 737.7 | 737.7 | 501.1 |
| 70° | 315.5 | 334.1 | 491.8 | 716.8 | 800.3 | 549.8 | 359.6 | 359.6 | 354.9 | 348.0 | 299.3 |
| 72.5° | 150.8 | 162.4 | 250.5 | 368.9 | 375.8 | 290.0 | 278.4 | 303.9 | 296.9 | 294.6 | 248.2 |
| 75° | 65.0 | 69.6 | 88.2 | 116.0 | 132.2 | 123.0 | 169.3 | 218.1 | 225.0 | 218.1 | 178.6 |
| 77.5° | 20.9 | 23.2 | 32.5 | 41.8 | 44.1 | 53.4 | 71.9 | 90.5 | 104.4 | 97.4 | 88.2 |
| 80° | 2.3 | 4.6 | 9.3 | 20.9 | 32.5 | 41.8 | 53.4 | 60.3 | 67.3 | 67.3 | 62.6 |
| 82.5° | 2.3 | 2.3 | 9.3 | 18.6 | 30.2 | 39.4 | 51.0 | 58.0 | 67.3 | 69.6 | 65.0 |
| 85° | 0.0 | 2.3 | 7.0 | 16.2 | 25.5 | 25.5 | 23.2 | 23.2 | 16.2 | 16.2 | 16.2 |
| 87.5° | 0.0 | 0.0 | 2.3 | 2.3 | 2.3 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 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° | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 | 2094.8 |
| 2.5° | 2113.4 | 2108.7 | 2046.1 | 2006.6 | 1985.8 | 1944.0 | 1918.5 | 1899.9 | 1886.0 | 1869.8 | 1872.1 |
| 5° | 2141.2 | 2124.9 | 2020.6 | 1948.6 | 1862.8 | 1816.4 | 1777.0 | 1744.5 | 1723.6 | 1719.0 | 1709.7 |
| 7.5° | 2220.1 | 2134.2 | 1976.5 | 1846.6 | 1737.5 | 1691.1 | 1656.3 | 1635.5 | 1644.7 | 1623.9 | 1640.1 |
| 10° | 2280.4 | 2152.8 | 1923.1 | 1735.2 | 1626.2 | 1591.4 | 1572.8 | 1589.1 | 1612.3 | 1603.0 | 1591.4 |
| 12.5° | 2354.6 | 2171.3 | 1837.3 | 1628.5 | 1526.4 | 1500.9 | 1533.4 | 1563.6 | 1610.0 | 1628.5 | 1605.3 |
| 15° | 2438.1 | 2192.2 | 1728.3 | 1505.6 | 1440.6 | 1461.5 | 1517.2 | 1570.5 | 1616.9 | 1640.1 | 1654.0 |
| 17.5° | 2540.2 | 2185.3 | 1621.6 | 1408.1 | 1359.4 | 1419.7 | 1487.0 | 1535.7 | 1605.3 | 1640.1 | 1630.8 |
| 20° | 2635.3 | 2162.1 | 1503.2 | 1310.7 | 1313.0 | 1368.7 | 1424.4 | 1503.2 | 1540.4 | 1586.8 | 1570.5 |
| 22.5° | 2725.8 | 2120.3 | 1380.3 | 1243.4 | 1243.4 | 1329.3 | 1357.1 | 1408.1 | 1440.6 | 1463.8 | 1461.5 |
| 25° | 2853.4 | 2041.4 | 1278.2 | 1178.5 | 1206.3 | 1262.0 | 1285.2 | 1301.4 | 1287.5 | 1306.1 | 1308.4 |
| 27.5° | 2943.8 | 1960.2 | 1194.7 | 1120.5 | 1171.5 | 1213.3 | 1206.3 | 1197.0 | 1164.5 | 1139.0 | 1155.3 |
| 30° | 3041.3 | 1865.1 | 1122.8 | 1081.0 | 1108.9 | 1146.0 | 1118.2 | 1090.3 | 1039.3 | 997.5 | 999.8 |
| 32.5° | 3180.5 | 1821.1 | 1060.2 | 1034.6 | 1071.8 | 1076.4 | 1046.2 | 1004.5 | 953.4 | 914.0 | 911.7 |
| 35° | 3440.3 | 1793.2 | 1006.8 | 1004.5 | 1011.4 | 1013.8 | 983.6 | 932.6 | 911.7 | 879.2 | 890.8 |
| 37.5° | 3700.1 | 1779.3 | 969.7 | 960.4 | 958.1 | 960.4 | 925.6 | 876.9 | 916.3 | 914.0 | 918.6 |
| 40° | 4031.8 | 1841.9 | 916.3 | 904.7 | 907.0 | 907.0 | 863.0 | 849.1 | 918.6 | 925.6 | 927.9 |
| 42.5° | 4368.2 | 1920.8 | 881.5 | 844.4 | 853.7 | 853.7 | 830.5 | 814.3 | 863.0 | 816.6 | 809.6 |
| 45° | 4660.5 | 2036.8 | 844.4 | 784.1 | 807.3 | 818.9 | 811.9 | 784.1 | 753.9 | 675.1 | 675.1 |
| 47.5° | 4755.6 | 2138.9 | 800.3 | 726.1 | 744.7 | 795.7 | 774.8 | 716.8 | 663.5 | 598.5 | 593.9 |
| 50° | 4922.6 | 2250.2 | 765.5 | 658.8 | 698.3 | 760.9 | 740.0 | 682.0 | 621.7 | 575.3 | 577.6 |
| 52.5° | 5094.3 | 2377.8 | 700.6 | 580.0 | 628.7 | 733.1 | 733.1 | 668.1 | 575.3 | 542.8 | 538.2 |
| 55° | 5351.8 | 2373.2 | 584.6 | 475.6 | 561.4 | 691.3 | 702.9 | 598.5 | 515.0 | 489.5 | 489.5 |
| 56° | 5388.9 | 2266.5 | 526.6 | 445.4 | 531.2 | 679.7 | 682.0 | 580.0 | 491.8 | 464.0 | 464.0 |
| 57.5° | 5110.6 | 2046.1 | 461.6 | 408.3 | 494.1 | 658.8 | 661.1 | 563.7 | 473.2 | 433.8 | 429.2 |
| 60° | 3932.1 | 1384.9 | 385.1 | 364.2 | 447.7 | 593.9 | 605.5 | 512.7 | 415.2 | 385.1 | 382.8 |
| 62.5° | 2220.1 | 767.9 | 338.7 | 329.4 | 385.1 | 505.7 | 540.5 | 447.7 | 352.6 | 336.4 | 341.0 |
| 65° | 1013.8 | 422.2 | 285.3 | 266.8 | 310.9 | 389.7 | 436.1 | 368.9 | 290.0 | 271.4 | 271.4 |
| 67.5° | 371.2 | 287.7 | 243.6 | 211.1 | 218.1 | 252.9 | 283.0 | 238.9 | 192.5 | 164.7 | 171.7 |
| 70° | 264.5 | 241.3 | 213.4 | 183.3 | 169.3 | 164.7 | 162.4 | 134.5 | 95.1 | 74.2 | 78.9 |
| 72.5° | 213.4 | 199.5 | 178.6 | 155.4 | 132.2 | 111.4 | 95.1 | 69.6 | 44.1 | 30.2 | 27.8 |
| 75° | 153.1 | 146.1 | 129.9 | 111.4 | 92.8 | 78.9 | 65.0 | 44.1 | 23.2 | 11.6 | 11.6 |
| 77.5° | 78.9 | 78.9 | 76.6 | 69.6 | 58.0 | 46.4 | 37.1 | 25.5 | 13.9 | 4.6 | 4.6 |
| 80° | 60.3 | 65.0 | 67.3 | 60.3 | 53.4 | 41.8 | 30.2 | 18.6 | 9.3 | 2.3 | 2.3 |
| 82.5° | 58.0 | 67.3 | 71.9 | 62.6 | 53.4 | 39.4 | 30.2 | 18.6 | 9.3 | 2.3 | 2.3 |
| 85° | 13.9 | 13.9 | 20.9 | 23.2 | 30.2 | 32.5 | 25.5 | 16.2 | 7.0 | 2.3 | 2.3 |
| 87.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 2.3 | 2.3 | 2.3 | 2.3 | 0.0 |
| 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)