

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: P530189

Luminaire Tested: **GALN-SA5B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530189
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-SA5B-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 12357 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

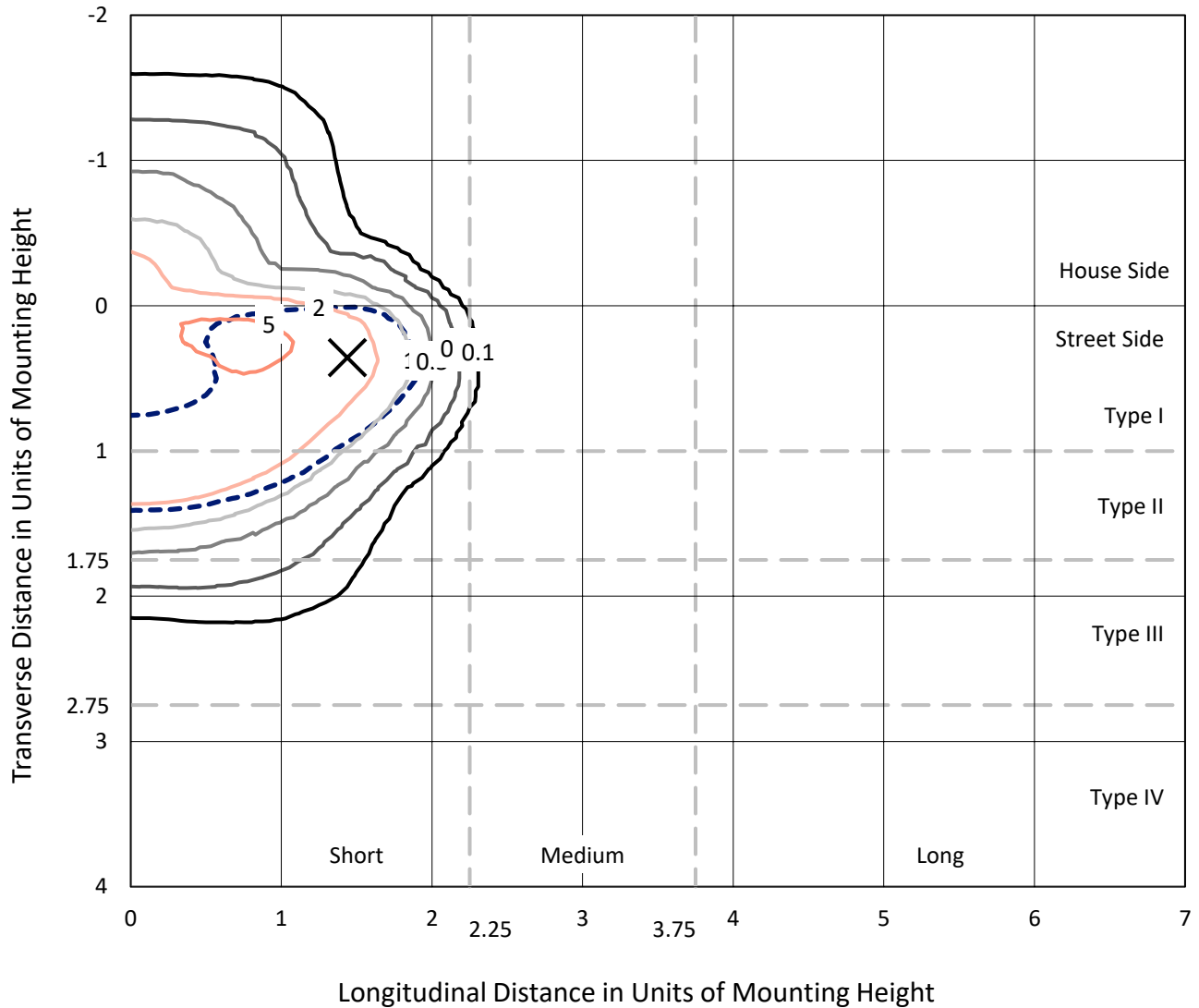
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

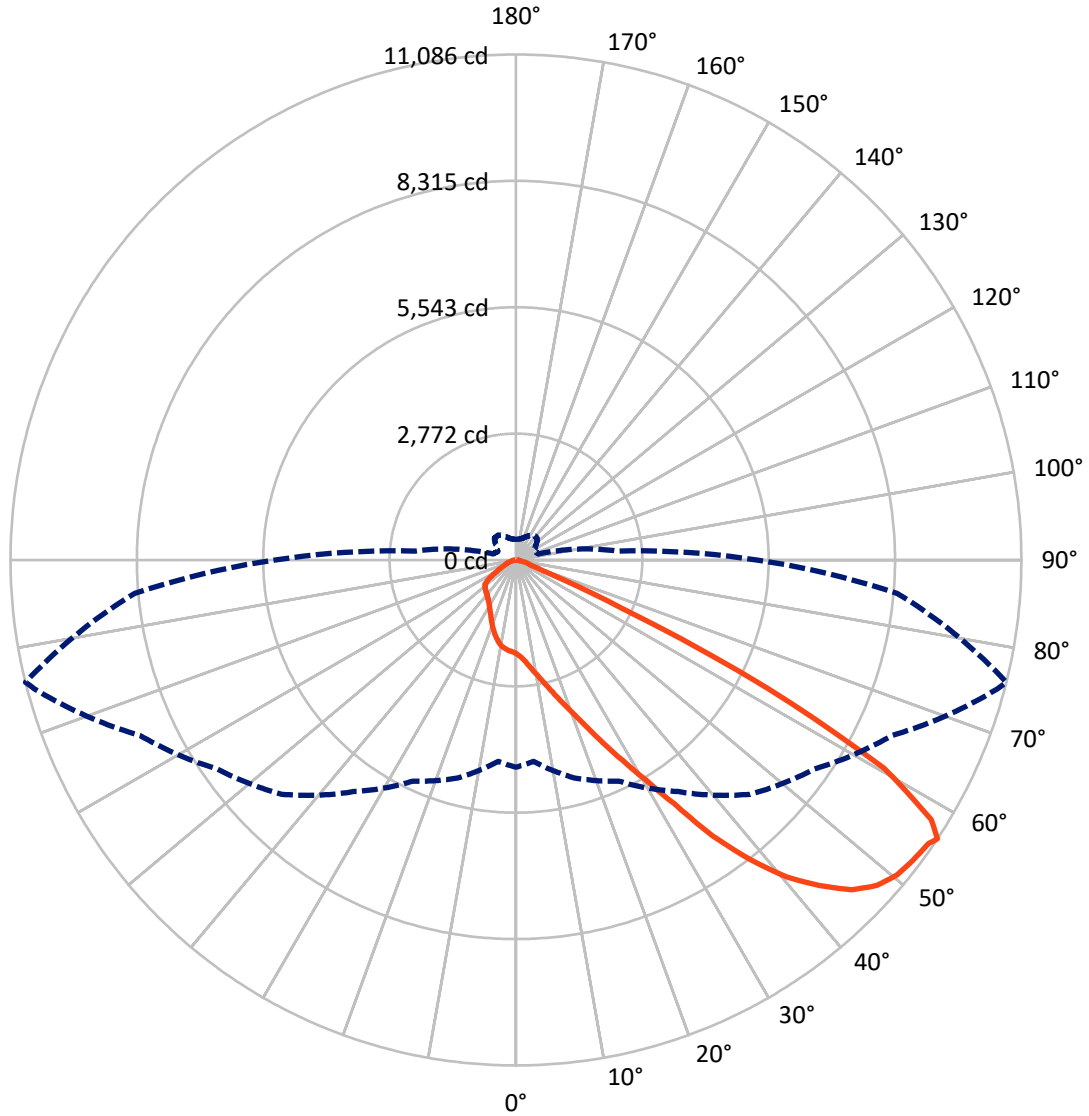
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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 | 1941.2 | 0.0 | 1941.2 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 10415.8 | 0.0 | 10415.8 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 12357.0 | 0.0 | 12357.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 207.2 | 1.7 |
| 10°-20° | 665.7 | 5.4 |
| 20°-30° | 1207.0 | 9.8 |
| 30°-40° | 2081.5 | 16.8 |
| 40°-50° | 3381.5 | 27.4 |
| 50°-60° | 3564.2 | 28.8 |
| 60°-70° | 1089.0 | 8.8 |
| 70°-80° | 139.6 | 1.1 |
| 80°-90° | 21.2 | 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° | 12357.0 | 100.0 |
| 0°-180° | 12357.0 | 100.0 |

Coefficient of Utilization

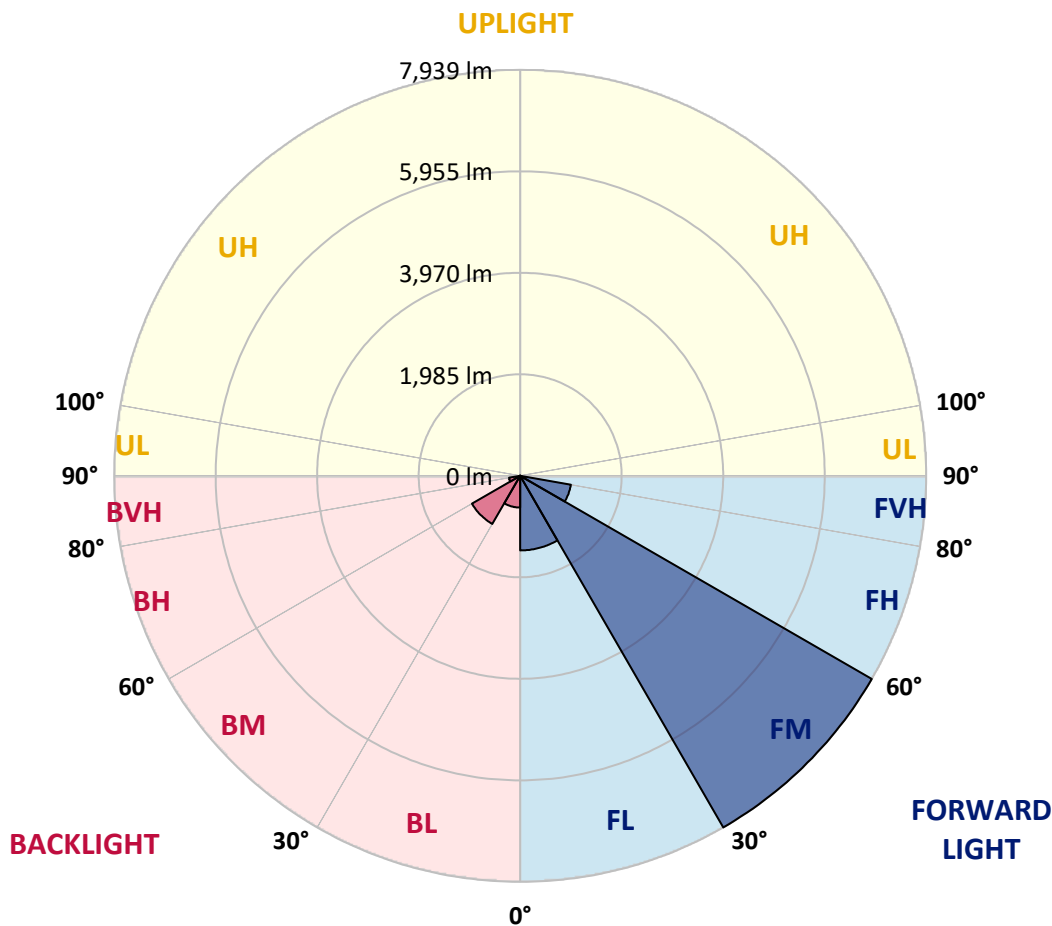


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1458.9 | 11.8 | | | |
| FM (30°-60°) | 7939.4 | 64.2 | | | |
| FH (60°-80°) | 1007.2 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 10.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 621.0 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1087.9 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 221.5 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.8 | 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° | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 |
| 2.5° | 2368.9 | 2314.2 | 2316.5 | 2312.0 | 2305.1 | 2280.1 | 2204.9 | 2193.5 | 2143.4 | 2129.7 | 2084.2 |
| 5° | 2653.6 | 2605.8 | 2633.1 | 2592.1 | 2553.4 | 2530.6 | 2407.6 | 2350.7 | 2271.0 | 2241.3 | 2177.6 |
| 7.5° | 2831.3 | 2808.5 | 2799.4 | 2801.7 | 2765.2 | 2708.3 | 2653.6 | 2528.3 | 2421.3 | 2398.5 | 2264.1 |
| 10° | 2917.8 | 2904.2 | 2917.8 | 2911.0 | 2927.0 | 2933.8 | 2838.1 | 2763.0 | 2605.8 | 2567.1 | 2357.5 |
| 12.5° | 2938.3 | 2965.7 | 2977.1 | 3006.7 | 3045.4 | 3111.5 | 3104.6 | 3002.1 | 2792.6 | 2767.5 | 2501.0 |
| 15° | 2988.5 | 3011.2 | 2999.8 | 3047.7 | 3120.6 | 3232.2 | 3291.4 | 3275.5 | 3050.0 | 3004.4 | 2667.3 |
| 17.5° | 3034.0 | 2993.0 | 3031.7 | 3127.4 | 3200.3 | 3371.1 | 3514.6 | 3580.7 | 3330.1 | 3277.7 | 2819.9 |
| 20° | 3095.5 | 3084.1 | 3077.3 | 3125.1 | 3255.0 | 3482.7 | 3767.5 | 3888.2 | 3644.5 | 3589.8 | 3038.6 |
| 22.5° | 3282.3 | 3284.6 | 3280.0 | 3209.4 | 3302.8 | 3560.2 | 3988.4 | 4286.8 | 4020.3 | 3974.7 | 3286.8 |
| 25° | 3528.3 | 3498.7 | 3475.9 | 3419.0 | 3407.6 | 3630.8 | 4211.6 | 4774.2 | 4471.3 | 4439.4 | 3555.6 |
| 27.5° | 3788.0 | 3788.0 | 3719.6 | 3667.2 | 3594.3 | 3806.2 | 4416.6 | 5248.0 | 5015.7 | 4972.4 | 3790.2 |
| 30° | 4070.4 | 4086.3 | 4077.2 | 3965.6 | 3920.1 | 3997.5 | 4626.2 | 5853.9 | 5639.8 | 5585.1 | 4177.5 |
| 32.5° | 4487.2 | 4453.1 | 4491.8 | 4398.4 | 4264.0 | 4332.3 | 4956.5 | 6396.0 | 6450.7 | 6373.2 | 4685.4 |
| 35° | 5038.5 | 5018.0 | 4992.9 | 4840.3 | 4680.9 | 4735.5 | 5423.4 | 7063.4 | 7468.9 | 7430.1 | 5197.9 |
| 37.5° | 5532.7 | 5521.4 | 5500.9 | 5396.1 | 5211.6 | 5277.6 | 5954.1 | 7758.1 | 8462.0 | 8334.4 | 5922.2 |
| 40° | 6052.1 | 6113.6 | 6047.5 | 5954.1 | 5785.6 | 5931.4 | 6578.2 | 8170.4 | 9297.9 | 9143.0 | 6475.7 |
| 42.5° | 6755.9 | 6708.1 | 6737.7 | 6566.9 | 6475.7 | 6635.2 | 7204.6 | 8582.7 | 9947.1 | 9762.6 | 7063.4 |
| 45° | 7505.3 | 7507.6 | 7427.9 | 7373.2 | 7136.3 | 7309.4 | 7589.6 | 8810.5 | 10464.2 | 10320.7 | 7507.6 |
| 47.5° | 7985.9 | 7983.6 | 8070.2 | 8156.8 | 7913.0 | 7742.2 | 7851.5 | 9026.9 | 10730.7 | 10664.6 | 7669.3 |
| 50° | 7910.8 | 7933.5 | 8045.1 | 8368.6 | 8496.1 | 8266.1 | 8097.5 | 8963.1 | 10851.4 | 10844.5 | 7808.3 |
| 52.5° | 6881.2 | 6956.4 | 7143.1 | 7610.1 | 8252.4 | 8537.1 | 8354.9 | 9081.5 | 10910.6 | 10922.0 | 8015.5 |
| 55° | 5238.9 | 5279.9 | 5635.2 | 6202.4 | 6913.1 | 7888.0 | 8252.4 | 9174.9 | 10956.2 | 10976.7 | 8266.1 |
| 56° | 4544.2 | 4434.9 | 4947.4 | 5350.5 | 6200.1 | 7266.1 | 7992.8 | 9102.0 | 10928.8 | 11086.0 | 8391.4 |
| 57.5° | 3430.3 | 3357.5 | 3772.0 | 4275.4 | 5093.1 | 6218.4 | 7186.4 | 8758.1 | 10744.3 | 10742.0 | 8211.4 |
| 60° | 2086.5 | 2013.6 | 2332.5 | 2628.6 | 3086.4 | 3829.0 | 4856.2 | 6974.6 | 9083.8 | 9275.1 | 6648.9 |
| 62.5° | 1241.4 | 1286.9 | 1601.3 | 1781.2 | 1929.3 | 2006.7 | 2512.4 | 4145.6 | 6061.2 | 6197.9 | 4125.1 |
| 65° | 826.8 | 842.8 | 1079.7 | 1375.8 | 1441.8 | 1148.0 | 1022.7 | 1678.7 | 2628.6 | 2544.3 | 1701.5 |
| 67.5° | 510.2 | 546.7 | 724.3 | 1034.1 | 1145.7 | 838.2 | 485.2 | 626.4 | 724.3 | 724.3 | 492.0 |
| 70° | 309.8 | 328.0 | 482.9 | 703.8 | 785.8 | 539.8 | 353.1 | 353.1 | 348.5 | 341.7 | 293.8 |
| 72.5° | 148.1 | 159.4 | 246.0 | 362.2 | 369.0 | 284.7 | 273.3 | 298.4 | 291.6 | 289.3 | 243.7 |
| 75° | 63.8 | 68.3 | 86.6 | 113.9 | 129.8 | 120.7 | 166.3 | 214.1 | 220.9 | 214.1 | 175.4 |
| 77.5° | 20.5 | 22.8 | 31.9 | 41.0 | 43.3 | 52.4 | 70.6 | 88.8 | 102.5 | 95.7 | 86.6 |
| 80° | 2.3 | 4.6 | 9.1 | 20.5 | 31.9 | 41.0 | 52.4 | 59.2 | 66.1 | 66.1 | 61.5 |
| 82.5° | 2.3 | 2.3 | 9.1 | 18.2 | 29.6 | 38.7 | 50.1 | 56.9 | 66.1 | 68.3 | 63.8 |
| 85° | 0.0 | 2.3 | 6.8 | 15.9 | 25.1 | 25.1 | 22.8 | 22.8 | 15.9 | 15.9 | 15.9 |
| 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° | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 |
| 2.5° | 2075.1 | 2070.5 | 2009.0 | 1970.3 | 1949.8 | 1908.8 | 1883.7 | 1865.5 | 1851.8 | 1835.9 | 1838.2 |
| 5° | 2102.4 | 2086.5 | 1984.0 | 1913.3 | 1829.1 | 1783.5 | 1744.8 | 1712.9 | 1692.4 | 1687.8 | 1678.7 |
| 7.5° | 2179.8 | 2095.6 | 1940.7 | 1813.1 | 1706.1 | 1660.5 | 1626.3 | 1605.8 | 1615.0 | 1594.5 | 1610.4 |
| 10° | 2239.1 | 2113.8 | 1888.3 | 1703.8 | 1596.7 | 1562.6 | 1544.3 | 1560.3 | 1583.1 | 1574.0 | 1562.6 |
| 12.5° | 2312.0 | 2132.0 | 1804.0 | 1599.0 | 1498.8 | 1473.7 | 1505.6 | 1535.2 | 1580.8 | 1599.0 | 1576.2 |
| 15° | 2394.0 | 2152.5 | 1697.0 | 1478.3 | 1414.5 | 1435.0 | 1489.7 | 1542.1 | 1587.6 | 1610.4 | 1624.1 |
| 17.5° | 2494.2 | 2145.7 | 1592.2 | 1382.6 | 1334.8 | 1394.0 | 1460.1 | 1507.9 | 1576.2 | 1610.4 | 1601.3 |
| 20° | 2587.6 | 2122.9 | 1476.0 | 1286.9 | 1289.2 | 1343.9 | 1398.6 | 1476.0 | 1512.5 | 1558.0 | 1542.1 |
| 22.5° | 2676.4 | 2081.9 | 1355.3 | 1220.9 | 1220.9 | 1305.2 | 1332.5 | 1382.6 | 1414.5 | 1437.3 | 1435.0 |
| 25° | 2801.7 | 2004.5 | 1255.1 | 1157.1 | 1184.4 | 1239.1 | 1261.9 | 1277.8 | 1264.2 | 1282.4 | 1284.7 |
| 27.5° | 2890.5 | 1924.7 | 1173.1 | 1100.2 | 1150.3 | 1191.3 | 1184.4 | 1175.3 | 1143.4 | 1118.4 | 1134.3 |
| 30° | 2986.2 | 1831.3 | 1102.4 | 1061.4 | 1088.8 | 1125.2 | 1097.9 | 1070.6 | 1020.4 | 979.4 | 981.7 |
| 32.5° | 3122.8 | 1788.1 | 1040.9 | 1015.9 | 1052.3 | 1056.9 | 1027.3 | 986.3 | 936.2 | 897.4 | 895.2 |
| 35° | 3378.0 | 1760.7 | 988.6 | 986.3 | 993.1 | 995.4 | 965.8 | 915.7 | 895.2 | 863.3 | 874.7 |
| 37.5° | 3633.1 | 1747.1 | 952.1 | 943.0 | 940.7 | 943.0 | 908.8 | 861.0 | 899.7 | 897.4 | 902.0 |
| 40° | 3958.8 | 1808.6 | 899.7 | 888.3 | 890.6 | 890.6 | 847.3 | 833.7 | 902.0 | 908.8 | 911.1 |
| 42.5° | 4289.1 | 1886.0 | 865.6 | 829.1 | 838.2 | 838.2 | 815.4 | 799.5 | 847.3 | 801.8 | 794.9 |
| 45° | 4576.1 | 1999.9 | 829.1 | 769.9 | 792.7 | 804.1 | 797.2 | 769.9 | 740.3 | 662.8 | 662.8 |
| 47.5° | 4669.5 | 2100.1 | 785.8 | 712.9 | 731.2 | 781.3 | 760.8 | 703.8 | 651.4 | 587.7 | 583.1 |
| 50° | 4833.5 | 2209.5 | 751.7 | 646.9 | 685.6 | 747.1 | 726.6 | 669.7 | 610.4 | 564.9 | 567.2 |
| 52.5° | 5002.0 | 2334.7 | 687.9 | 569.4 | 617.3 | 719.8 | 719.8 | 656.0 | 564.9 | 533.0 | 528.4 |
| 55° | 5254.9 | 2330.2 | 574.0 | 466.9 | 551.2 | 678.8 | 690.2 | 587.7 | 505.7 | 480.6 | 480.6 |
| 56° | 5291.3 | 2225.4 | 517.1 | 437.3 | 521.6 | 667.4 | 669.7 | 569.4 | 482.9 | 455.6 | 455.6 |
| 57.5° | 5018.0 | 2009.0 | 453.3 | 400.9 | 485.2 | 646.9 | 649.2 | 553.5 | 464.7 | 425.9 | 421.4 |
| 60° | 3860.8 | 1359.8 | 378.1 | 357.6 | 439.6 | 583.1 | 594.5 | 503.4 | 407.7 | 378.1 | 375.8 |
| 62.5° | 2179.8 | 753.9 | 332.6 | 323.4 | 378.1 | 496.6 | 530.7 | 439.6 | 346.2 | 330.3 | 334.8 |
| 65° | 995.4 | 414.6 | 280.2 | 261.9 | 305.2 | 382.7 | 428.2 | 362.2 | 284.7 | 266.5 | 266.5 |
| 67.5° | 364.4 | 282.4 | 239.2 | 207.3 | 214.1 | 248.3 | 277.9 | 234.6 | 189.1 | 161.7 | 168.6 |
| 70° | 259.7 | 236.9 | 209.6 | 179.9 | 166.3 | 161.7 | 159.4 | 132.1 | 93.4 | 72.9 | 77.4 |
| 72.5° | 209.6 | 195.9 | 175.4 | 152.6 | 129.8 | 109.3 | 93.4 | 68.3 | 43.3 | 29.6 | 27.3 |
| 75° | 150.3 | 143.5 | 127.6 | 109.3 | 91.1 | 77.4 | 63.8 | 43.3 | 22.8 | 11.4 | 11.4 |
| 77.5° | 77.4 | 77.4 | 75.2 | 68.3 | 56.9 | 45.6 | 36.4 | 25.1 | 13.7 | 4.6 | 4.6 |
| 80° | 59.2 | 63.8 | 66.1 | 59.2 | 52.4 | 41.0 | 29.6 | 18.2 | 9.1 | 2.3 | 2.3 |
| 82.5° | 56.9 | 66.1 | 70.6 | 61.5 | 52.4 | 38.7 | 29.6 | 18.2 | 9.1 | 2.3 | 2.3 |
| 85° | 13.7 | 13.7 | 20.5 | 22.8 | 29.6 | 31.9 | 25.1 | 15.9 | 6.8 | 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)