

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: P527620

Luminaire Tested: **GALN-SA2C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8861 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

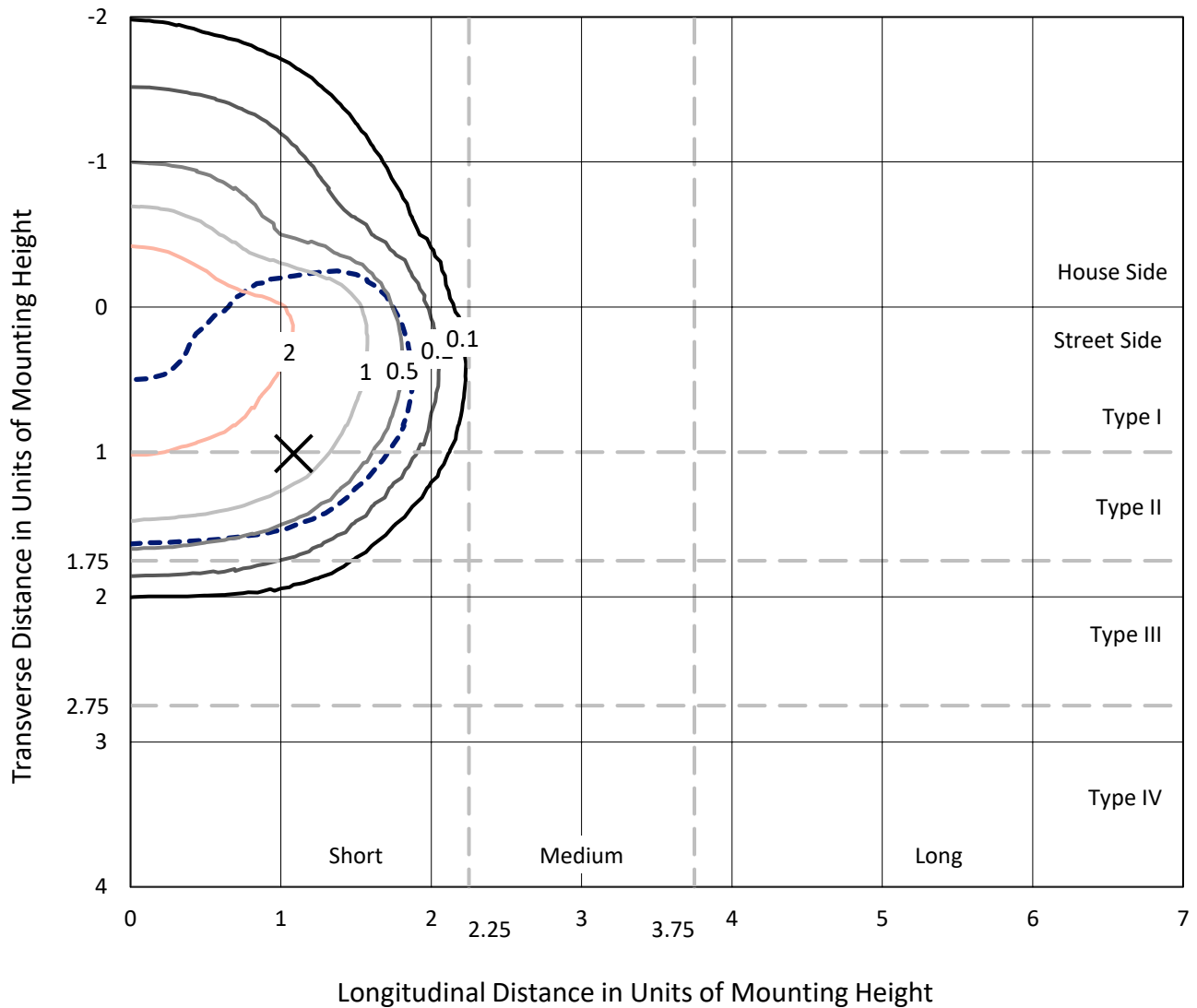
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

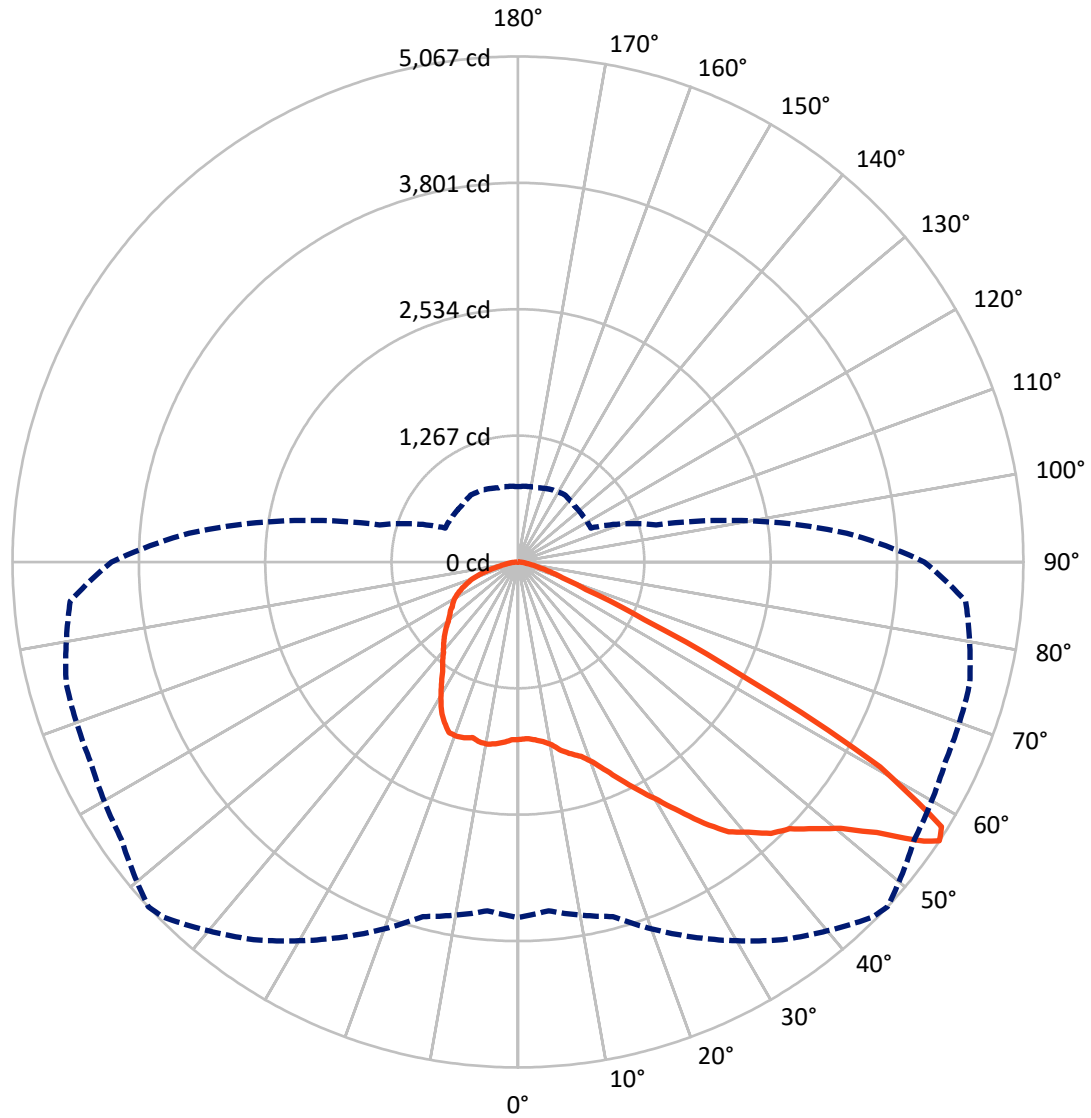
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2808.0 | 0.0 | 2808.0 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 6053.0 | 0.0 | 6053.0 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 8861.0 | 0.0 | 8861.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 173.4 | 2.0 |
| 10°-20° | 547.1 | 6.2 |
| 20°-30° | 967.1 | 10.9 |
| 30°-40° | 1452.5 | 16.4 |
| 40°-50° | 1993.5 | 22.5 |
| 50°-60° | 2375.0 | 26.8 |
| 60°-70° | 1016.3 | 11.5 |
| 70°-80° | 287.6 | 3.2 |
| 80°-90° | 48.4 | 0.5 |
| 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° | 8861.0 | 100.0 |
| 0°-180° | 8861.0 | 100.0 |

Coefficient of Utilization

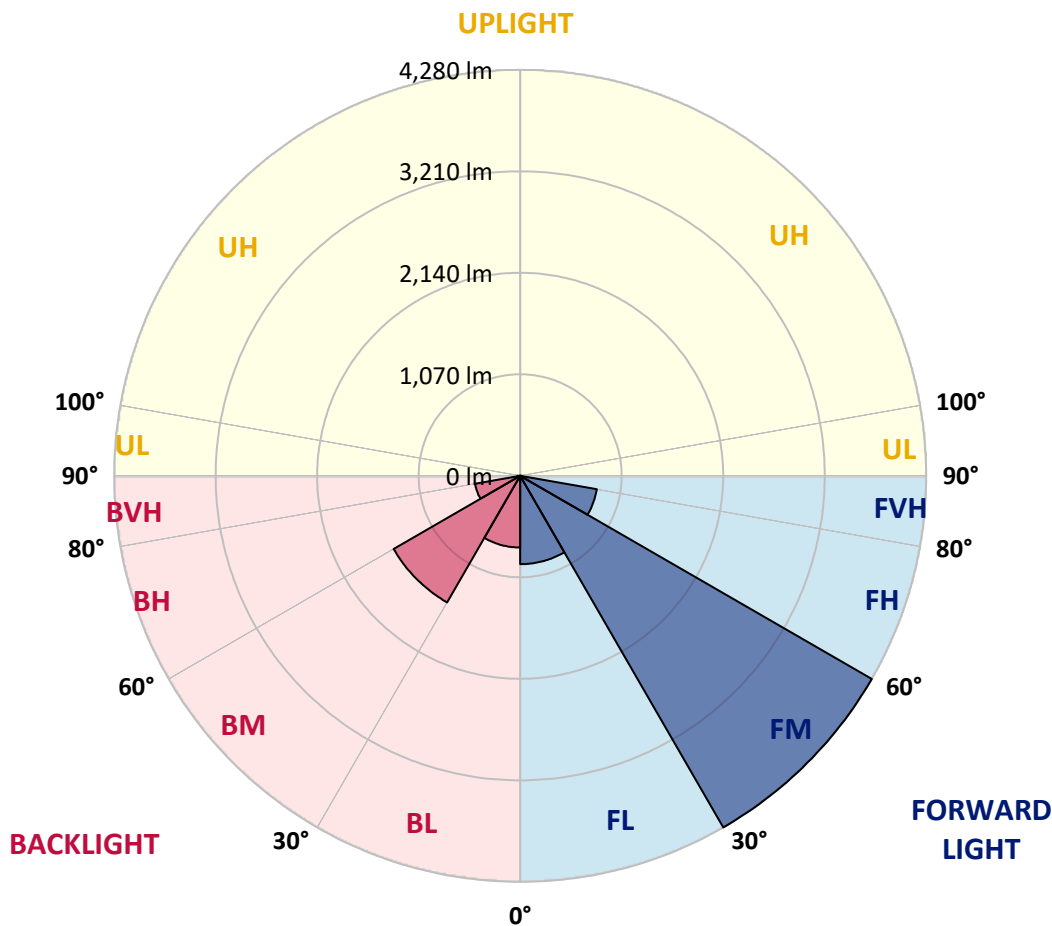


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 931.6 | 10.5 | | | |
| FM (30°-60°) | 4280.1 | 48.3 | | | |
| FH (60°-80°) | 820.8 | 9.3 | | | G1/1800 |
| FVH (80°-90°) | 20.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 756.0 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 1541.0 | 17.4 | B2/2500 | | |
| BH (60°-80°) | 483.1 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 27.9 | 0.3 | | | 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° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 |
| 2.5° | 1773.1 | 1769.7 | 1767.5 | 1785.6 | 1778.8 | 1779.9 | 1773.1 | 1779.9 | 1784.4 | 1774.3 | 1788.9 |
| 5° | 1769.7 | 1779.9 | 1770.9 | 1776.5 | 1791.2 | 1786.7 | 1791.2 | 1804.8 | 1801.4 | 1798.0 | 1793.5 |
| 7.5° | 1801.4 | 1802.5 | 1809.3 | 1811.5 | 1816.1 | 1811.5 | 1818.3 | 1830.8 | 1827.4 | 1808.2 | 1810.4 |
| 10° | 1846.6 | 1848.8 | 1850.0 | 1862.4 | 1870.3 | 1871.4 | 1863.5 | 1852.2 | 1851.1 | 1877.1 | 1859.0 |
| 12.5° | 1898.6 | 1892.9 | 1906.5 | 1911.0 | 1920.0 | 1930.2 | 1940.4 | 1916.6 | 1931.3 | 1932.5 | 1911.0 |
| 15° | 1974.3 | 1979.9 | 1964.1 | 1964.1 | 1967.5 | 1968.6 | 1996.9 | 1985.6 | 1983.3 | 1970.9 | 1979.9 |
| 17.5° | 2087.3 | 2048.9 | 2047.7 | 2031.9 | 2029.7 | 2038.7 | 2048.9 | 2057.9 | 2088.4 | 2063.6 | 2015.0 |
| 20° | 2169.8 | 2178.8 | 2146.1 | 2126.8 | 2130.2 | 2150.6 | 2140.4 | 2181.1 | 2202.6 | 2161.9 | 2114.4 |
| 22.5° | 2315.6 | 2285.1 | 2293.0 | 2250.0 | 2253.4 | 2274.9 | 2273.8 | 2315.6 | 2328.0 | 2263.6 | 2194.7 |
| 25° | 2413.9 | 2406.0 | 2412.8 | 2378.9 | 2383.4 | 2400.3 | 2427.5 | 2496.4 | 2476.0 | 2404.9 | 2245.5 |
| 27.5° | 2557.4 | 2541.6 | 2535.9 | 2523.5 | 2519.0 | 2564.2 | 2595.8 | 2669.3 | 2654.6 | 2550.6 | 2335.9 |
| 30° | 2704.3 | 2694.2 | 2699.8 | 2649.0 | 2667.0 | 2763.1 | 2772.1 | 2872.7 | 2865.9 | 2682.9 | 2436.5 |
| 32.5° | 2806.0 | 2811.7 | 2821.9 | 2793.6 | 2873.8 | 2950.7 | 2981.2 | 3095.3 | 3101.0 | 2910.0 | 2630.9 |
| 35° | 2969.9 | 2950.7 | 2956.3 | 2989.1 | 3026.4 | 3166.5 | 3216.3 | 3292.0 | 3339.4 | 3148.5 | 2817.3 |
| 37.5° | 3072.7 | 3093.1 | 3069.3 | 3121.3 | 3218.5 | 3386.9 | 3432.1 | 3510.1 | 3559.8 | 3383.5 | 3071.6 |
| 40° | 3233.2 | 3200.4 | 3217.4 | 3254.7 | 3354.1 | 3573.4 | 3560.9 | 3641.2 | 3657.0 | 3583.5 | 3308.9 |
| 42.5° | 3406.1 | 3390.3 | 3366.6 | 3451.3 | 3534.9 | 3694.3 | 3719.2 | 3681.9 | 3762.1 | 3779.1 | 3648.0 |
| 45° | 3612.9 | 3632.1 | 3635.5 | 3637.8 | 3711.2 | 3850.2 | 3816.3 | 3783.6 | 3876.2 | 3999.4 | 3858.2 |
| 47.5° | 3805.0 | 3744.0 | 3788.1 | 3849.1 | 3953.1 | 3954.2 | 3993.8 | 3915.8 | 4014.1 | 4123.7 | 4048.0 |
| 50° | 3869.5 | 3840.1 | 3898.8 | 4014.1 | 4174.6 | 4191.5 | 4196.1 | 4085.3 | 4136.2 | 4223.2 | 4113.6 |
| 52.5° | 3844.6 | 3834.4 | 3984.7 | 4163.3 | 4398.3 | 4484.2 | 4506.8 | 4370.1 | 4398.3 | 4358.8 | 4258.2 |
| 55° | 3725.9 | 3756.4 | 3907.9 | 4271.8 | 4632.3 | 4897.8 | 4940.8 | 4767.9 | 4588.2 | 4618.7 | 4508.0 |
| 56° | 3563.2 | 3510.1 | 3679.6 | 4148.6 | 4622.1 | 5032.3 | 5067.4 | 4851.5 | 4729.5 | 4689.9 | 4505.7 |
| 57.5° | 3023.0 | 2954.1 | 3176.7 | 3732.7 | 4365.6 | 4981.5 | 5007.5 | 4886.5 | 4705.7 | 4625.5 | 4176.8 |
| 60° | 1769.7 | 1803.6 | 2086.2 | 2574.4 | 3367.7 | 4084.2 | 4171.2 | 4259.3 | 4138.4 | 3779.1 | 3108.9 |
| 62.5° | 854.4 | 832.9 | 1035.2 | 1475.9 | 2052.3 | 2607.1 | 2581.1 | 2828.6 | 2964.2 | 2685.1 | 1963.0 |
| 65° | 447.5 | 445.3 | 565.0 | 805.8 | 1127.8 | 1369.7 | 1393.4 | 1526.8 | 1713.2 | 1383.2 | 996.7 |
| 67.5° | 328.9 | 337.9 | 397.8 | 566.2 | 725.5 | 740.2 | 736.8 | 803.5 | 821.6 | 695.0 | 612.5 |
| 70° | 257.7 | 262.2 | 306.3 | 430.6 | 540.2 | 483.7 | 473.5 | 481.4 | 534.5 | 557.1 | 530.0 |
| 72.5° | 186.5 | 191.0 | 228.3 | 290.4 | 337.9 | 330.0 | 336.8 | 380.8 | 446.4 | 470.1 | 441.9 |
| 75° | 124.3 | 127.7 | 148.0 | 177.4 | 200.0 | 215.8 | 228.3 | 279.1 | 340.2 | 353.7 | 340.2 |
| 77.5° | 85.9 | 89.3 | 102.8 | 125.4 | 127.7 | 137.9 | 142.4 | 166.1 | 203.4 | 220.4 | 211.3 |
| 80° | 48.6 | 48.6 | 55.4 | 64.4 | 79.1 | 92.7 | 94.9 | 114.1 | 131.1 | 142.4 | 144.7 |
| 82.5° | 22.6 | 23.7 | 29.4 | 39.6 | 52.0 | 64.4 | 66.7 | 79.1 | 91.5 | 102.8 | 106.2 |
| 85° | 11.3 | 12.4 | 17.0 | 23.7 | 31.6 | 38.4 | 37.3 | 38.4 | 40.7 | 38.4 | 39.6 |
| 87.5° | 3.4 | 3.4 | 4.5 | 5.7 | 4.5 | 5.7 | 5.7 | 6.8 | 7.9 | 9.0 | 10.2 |
| 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° | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 | 1779.9 |
| 2.5° | 1790.1 | 1793.5 | 1770.9 | 1792.3 | 1784.4 | 1783.3 | 1799.1 | 1796.9 | 1802.5 | 1800.2 | 1786.7 |
| 5° | 1791.2 | 1783.3 | 1807.0 | 1785.6 | 1795.7 | 1817.2 | 1802.5 | 1836.4 | 1819.5 | 1830.8 | 1805.9 |
| 7.5° | 1826.2 | 1828.5 | 1824.0 | 1833.0 | 1828.5 | 1838.7 | 1830.8 | 1838.7 | 1825.1 | 1826.2 | 1848.8 |
| 10° | 1856.8 | 1850.0 | 1857.9 | 1846.6 | 1854.5 | 1851.1 | 1833.0 | 1827.4 | 1831.9 | 1826.2 | 1840.9 |
| 12.5° | 1913.3 | 1900.8 | 1895.2 | 1881.6 | 1872.6 | 1838.7 | 1810.4 | 1794.6 | 1816.1 | 1819.5 | 1812.7 |
| 15° | 1970.9 | 1972.0 | 1946.0 | 1915.5 | 1859.0 | 1808.2 | 1814.9 | 1820.6 | 1820.6 | 1829.6 | 1812.7 |
| 17.5° | 2007.1 | 2007.1 | 1983.3 | 1922.3 | 1864.7 | 1835.3 | 1828.5 | 1810.4 | 1794.6 | 1792.3 | 1791.2 |
| 20° | 2070.3 | 2051.1 | 1996.9 | 1921.2 | 1862.4 | 1848.8 | 1798.0 | 1755.0 | 1722.3 | 1711.0 | 1709.8 |
| 22.5° | 2142.7 | 2094.1 | 2018.4 | 1923.4 | 1859.0 | 1839.8 | 1744.9 | 1680.5 | 1621.7 | 1596.8 | 1600.2 |
| 25° | 2209.3 | 2131.4 | 2030.8 | 1913.3 | 1846.6 | 1753.9 | 1647.7 | 1558.4 | 1497.4 | 1477.0 | 1466.9 |
| 27.5° | 2255.7 | 2170.9 | 2030.8 | 1922.3 | 1800.2 | 1657.9 | 1549.4 | 1435.2 | 1382.1 | 1368.5 | 1370.8 |
| 30° | 2317.8 | 2220.6 | 2065.8 | 1903.1 | 1707.6 | 1533.5 | 1403.6 | 1329.0 | 1297.4 | 1286.1 | 1294.0 |
| 32.5° | 2463.6 | 2350.6 | 2114.4 | 1856.8 | 1598.0 | 1409.2 | 1304.1 | 1262.3 | 1216.0 | 1193.4 | 1185.5 |
| 35° | 2621.8 | 2473.8 | 2161.9 | 1778.8 | 1474.8 | 1296.2 | 1230.7 | 1192.3 | 1136.9 | 1112.0 | 1116.5 |
| 37.5° | 2845.6 | 2632.0 | 2165.3 | 1649.9 | 1341.4 | 1232.9 | 1173.0 | 1113.1 | 1067.9 | 1029.5 | 1018.2 |
| 40° | 3147.3 | 2847.8 | 2157.4 | 1514.3 | 1234.1 | 1158.4 | 1114.3 | 1039.7 | 988.8 | 961.7 | 967.4 |
| 42.5° | 3412.9 | 3101.0 | 2124.6 | 1360.6 | 1136.9 | 1107.5 | 1057.8 | 984.3 | 934.6 | 906.3 | 904.1 |
| 45° | 3636.7 | 3287.5 | 2062.4 | 1229.5 | 1055.5 | 1051.0 | 993.4 | 936.9 | 897.3 | 871.3 | 882.6 |
| 47.5° | 3843.5 | 3437.8 | 1968.6 | 1098.5 | 980.9 | 990.0 | 934.6 | 899.6 | 874.7 | 851.0 | 849.8 |
| 50° | 3918.1 | 3435.5 | 1886.1 | 990.0 | 921.0 | 916.5 | 914.2 | 877.0 | 851.0 | 830.6 | 839.7 |
| 52.5° | 4042.4 | 3473.9 | 1796.9 | 915.4 | 866.8 | 867.9 | 875.8 | 848.7 | 819.3 | 806.9 | 818.2 |
| 55° | 4220.9 | 3479.6 | 1600.2 | 828.4 | 821.6 | 829.5 | 829.5 | 811.4 | 786.5 | 776.4 | 770.7 |
| 56° | 4075.1 | 3311.2 | 1435.2 | 805.8 | 799.0 | 799.0 | 820.5 | 800.1 | 769.6 | 761.7 | 754.9 |
| 57.5° | 3758.7 | 2901.0 | 1201.3 | 778.6 | 768.5 | 784.3 | 795.6 | 774.1 | 745.9 | 734.6 | 741.3 |
| 60° | 2592.4 | 1963.0 | 902.9 | 719.9 | 719.9 | 745.9 | 754.9 | 723.3 | 710.8 | 709.7 | 700.7 |
| 62.5° | 1513.2 | 1143.7 | 706.3 | 666.8 | 669.0 | 690.5 | 697.3 | 679.2 | 663.4 | 682.6 | 691.6 |
| 65° | 802.4 | 682.6 | 605.7 | 610.3 | 611.4 | 628.3 | 657.7 | 656.6 | 655.5 | 661.1 | 662.2 |
| 67.5° | 580.9 | 567.3 | 550.4 | 545.8 | 548.1 | 560.5 | 589.9 | 612.5 | 611.4 | 597.8 | 587.7 |
| 70° | 517.6 | 498.4 | 488.2 | 489.3 | 480.3 | 495.0 | 518.7 | 533.4 | 507.4 | 491.6 | 484.8 |
| 72.5° | 430.6 | 424.9 | 418.1 | 419.3 | 401.2 | 397.8 | 370.7 | 370.7 | 363.9 | 359.4 | 367.3 |
| 75° | 328.9 | 326.6 | 330.0 | 324.3 | 305.1 | 284.8 | 269.0 | 254.3 | 231.7 | 222.6 | 218.1 |
| 77.5° | 207.9 | 214.7 | 222.6 | 210.2 | 202.3 | 187.6 | 171.8 | 157.1 | 139.0 | 128.8 | 128.8 |
| 80° | 141.3 | 146.9 | 152.6 | 150.3 | 141.3 | 127.7 | 115.3 | 99.4 | 87.0 | 79.1 | 78.0 |
| 82.5° | 107.4 | 111.9 | 119.8 | 110.7 | 101.7 | 90.4 | 80.2 | 68.9 | 57.6 | 48.6 | 48.6 |
| 85° | 38.4 | 44.1 | 48.6 | 53.1 | 56.5 | 57.6 | 49.7 | 40.7 | 32.8 | 26.0 | 24.9 |
| 87.5° | 10.2 | 11.3 | 12.4 | 11.3 | 11.3 | 11.3 | 12.4 | 11.3 | 10.2 | 7.9 | 7.9 |
| 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)