

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: STREETWORKS

Report Number: P530033

Luminaire Tested: **GLAN-SA5B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530033
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: STREETWORKS
Catalog Number: GLAN-SA5B-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 14058 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

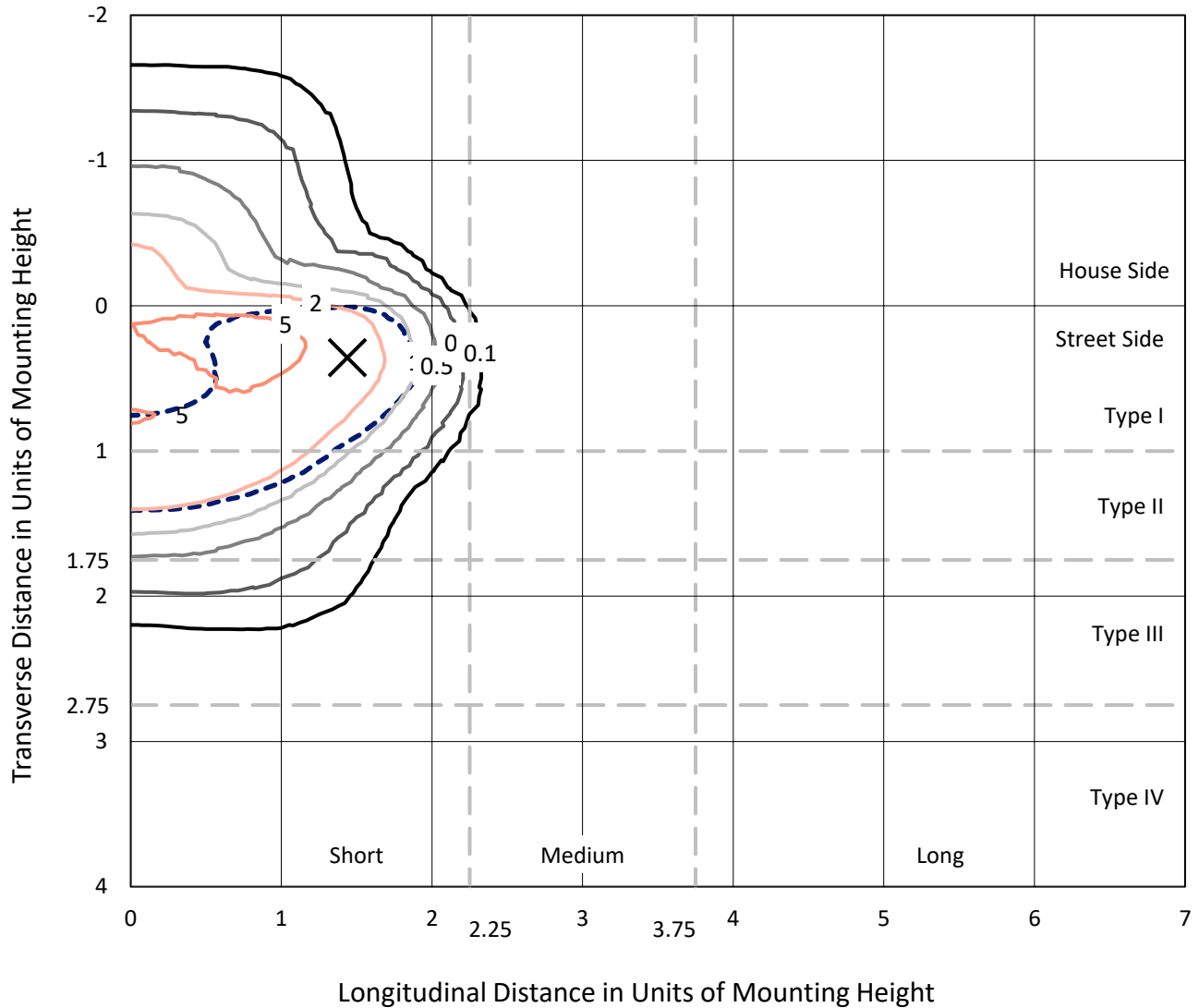
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

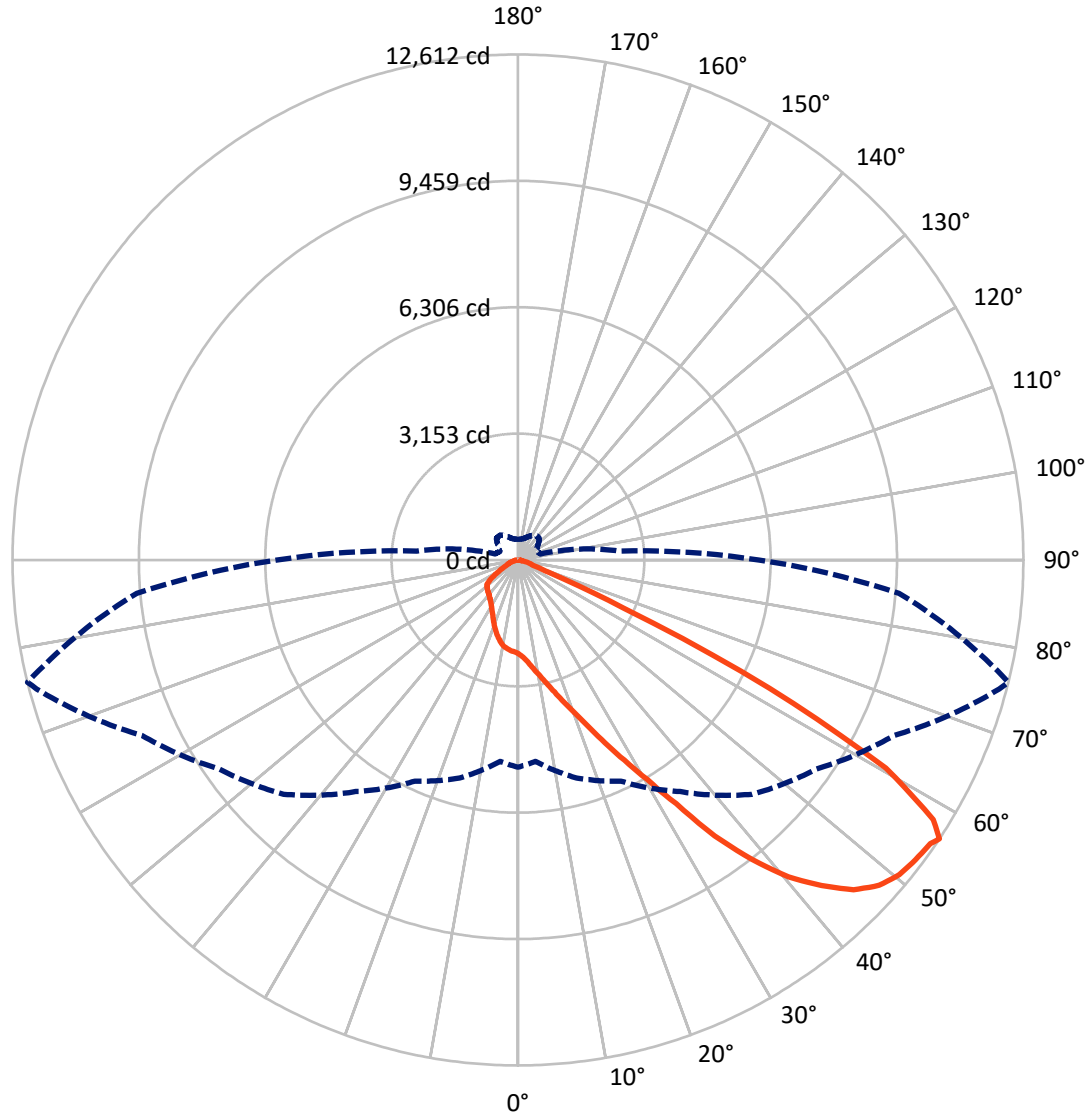
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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 | 2208.4 | 0.0 | 2208.4 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 11849.6 | 0.0 | 11849.6 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 14058.0 | 0.0 | 14058.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.7 | 1.7 |
| 10°-20° | 757.3 | 5.4 |
| 20°-30° | 1373.1 | 9.8 |
| 30°-40° | 2368.1 | 16.8 |
| 40°-50° | 3847.0 | 27.4 |
| 50°-60° | 4054.9 | 28.8 |
| 60°-70° | 1238.9 | 8.8 |
| 70°-80° | 158.8 | 1.1 |
| 80°-90° | 24.1 | 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° | 14058.0 | 100.0 |
| 0°-180° | 14058.0 | 100.0 |

Coefficient of Utilization

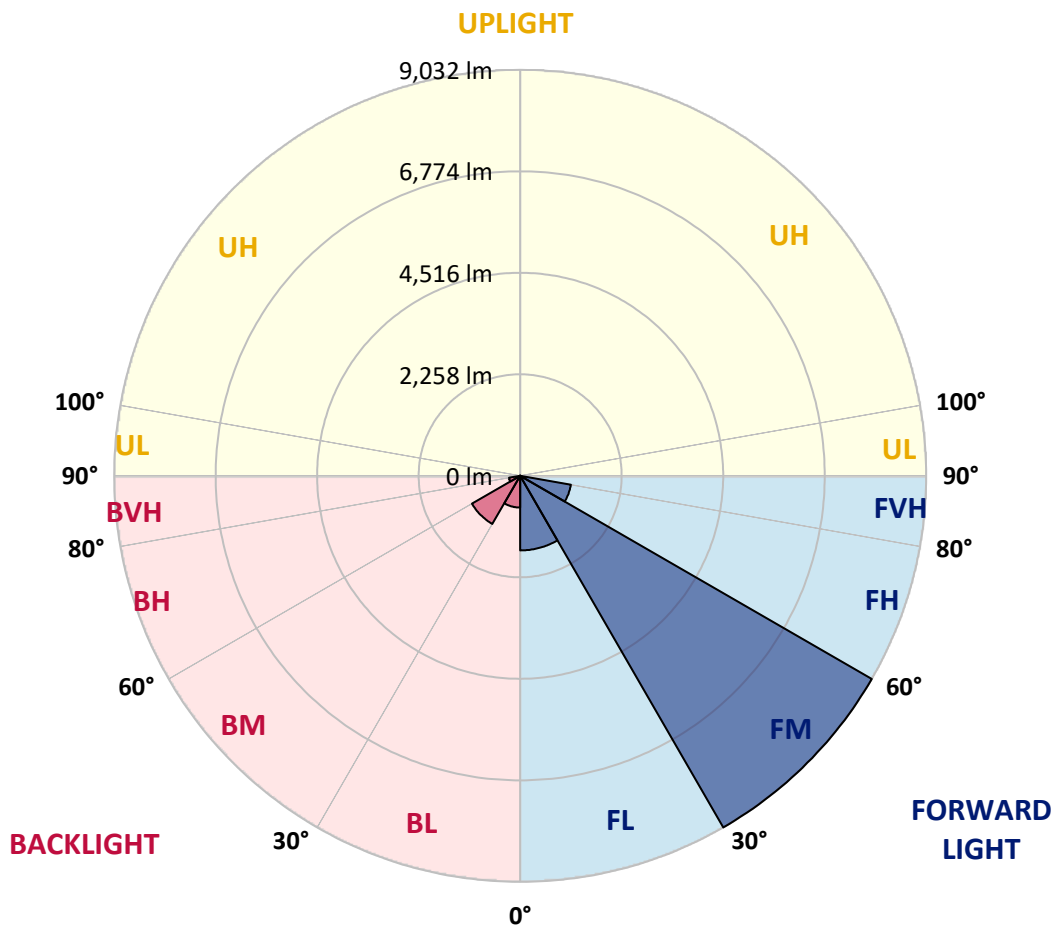


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1659.7 | 11.8 | | | |
| FM (30°-60°) | 9032.2 | 64.2 | | | |
| FH (60°-80°) | 1145.8 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 11.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 706.5 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1237.7 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 251.9 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.3 | 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° | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 |
| 2.5° | 2695.0 | 2632.8 | 2635.4 | 2630.2 | 2622.4 | 2593.9 | 2508.4 | 2495.5 | 2438.4 | 2422.9 | 2371.1 |
| 5° | 3018.9 | 2964.5 | 2995.6 | 2948.9 | 2904.9 | 2879.0 | 2739.0 | 2674.3 | 2583.6 | 2549.9 | 2477.3 |
| 7.5° | 3221.0 | 3195.1 | 3184.8 | 3187.3 | 3145.9 | 3081.1 | 3018.9 | 2876.4 | 2754.6 | 2728.7 | 2575.8 |
| 10° | 3319.5 | 3304.0 | 3319.5 | 3311.7 | 3329.9 | 3337.6 | 3228.8 | 3143.3 | 2964.5 | 2920.4 | 2682.0 |
| 12.5° | 3342.8 | 3373.9 | 3386.9 | 3420.6 | 3464.6 | 3539.8 | 3532.0 | 3415.4 | 3177.0 | 3148.5 | 2845.3 |
| 15° | 3399.8 | 3425.7 | 3412.8 | 3467.2 | 3550.1 | 3677.1 | 3744.5 | 3726.3 | 3469.8 | 3418.0 | 3034.5 |
| 17.5° | 3451.7 | 3405.0 | 3449.1 | 3557.9 | 3640.8 | 3835.2 | 3998.4 | 4073.6 | 3788.5 | 3728.9 | 3208.1 |
| 20° | 3521.6 | 3508.7 | 3500.9 | 3555.3 | 3703.0 | 3962.2 | 4286.1 | 4423.4 | 4146.1 | 4083.9 | 3456.8 |
| 22.5° | 3734.1 | 3736.7 | 3731.5 | 3651.2 | 3757.4 | 4050.3 | 4537.4 | 4876.9 | 4573.7 | 4521.9 | 3739.3 |
| 25° | 4014.0 | 3980.3 | 3954.4 | 3889.6 | 3876.6 | 4130.6 | 4791.4 | 5431.4 | 5086.8 | 5050.5 | 4045.1 |
| 27.5° | 4309.4 | 4309.4 | 4231.6 | 4172.0 | 4089.1 | 4330.1 | 5024.6 | 5970.4 | 5706.1 | 5656.9 | 4312.0 |
| 30° | 4630.7 | 4648.9 | 4638.5 | 4511.5 | 4459.7 | 4547.8 | 5263.0 | 6659.7 | 6416.1 | 6354.0 | 4752.5 |
| 32.5° | 5104.9 | 5066.1 | 5110.1 | 5003.9 | 4851.0 | 4928.7 | 5638.7 | 7276.5 | 7338.7 | 7250.6 | 5330.4 |
| 35° | 5732.0 | 5708.7 | 5680.2 | 5506.6 | 5325.2 | 5387.4 | 6170.0 | 8035.7 | 8497.0 | 8452.9 | 5913.4 |
| 37.5° | 6294.4 | 6281.4 | 6258.1 | 6138.9 | 5929.0 | 6004.1 | 6773.7 | 8826.1 | 9626.8 | 9481.7 | 6737.5 |
| 40° | 6885.2 | 6955.1 | 6880.0 | 6773.7 | 6582.0 | 6747.8 | 7483.8 | 9295.1 | 10577.8 | 10401.6 | 7367.2 |
| 42.5° | 7685.9 | 7631.5 | 7665.2 | 7470.8 | 7367.2 | 7548.6 | 8196.4 | 9764.1 | 11316.4 | 11106.5 | 8035.7 |
| 45° | 8538.4 | 8541.0 | 8450.3 | 8388.2 | 8118.7 | 8315.6 | 8634.3 | 10023.3 | 11904.6 | 11741.3 | 8541.0 |
| 47.5° | 9085.2 | 9082.6 | 9181.1 | 9279.6 | 9002.3 | 8807.9 | 8932.3 | 10269.5 | 12207.8 | 12132.6 | 8725.0 |
| 50° | 8999.7 | 9025.6 | 9152.6 | 9520.6 | 9665.7 | 9404.0 | 9212.2 | 10196.9 | 12345.1 | 12337.3 | 8883.1 |
| 52.5° | 7828.4 | 7913.9 | 8126.4 | 8657.6 | 9388.4 | 9712.3 | 9505.0 | 10331.7 | 12412.5 | 12425.4 | 9118.9 |
| 55° | 5960.1 | 6006.7 | 6411.0 | 7056.2 | 7864.7 | 8973.8 | 9388.4 | 10437.9 | 12464.3 | 12487.6 | 9404.0 |
| 56° | 5169.7 | 5045.3 | 5628.4 | 6087.0 | 7053.6 | 8266.4 | 9093.0 | 10355.0 | 12433.2 | 12612.0 | 9546.5 |
| 57.5° | 3902.6 | 3819.6 | 4291.3 | 4863.9 | 5794.2 | 7074.3 | 8175.7 | 9963.7 | 12223.3 | 12220.7 | 9341.8 |
| 60° | 2373.7 | 2290.7 | 2653.5 | 2990.4 | 3511.3 | 4356.0 | 5524.7 | 7934.7 | 10334.2 | 10551.9 | 7564.1 |
| 62.5° | 1412.3 | 1464.1 | 1821.7 | 2026.4 | 2194.9 | 2283.0 | 2858.2 | 4716.2 | 6895.5 | 7051.0 | 4692.9 |
| 65° | 940.7 | 958.8 | 1228.3 | 1565.2 | 1640.3 | 1306.0 | 1163.5 | 1909.8 | 2990.4 | 2894.5 | 1935.7 |
| 67.5° | 580.5 | 621.9 | 824.0 | 1176.5 | 1303.4 | 953.6 | 552.0 | 712.6 | 824.0 | 824.0 | 559.7 |
| 70° | 352.4 | 373.2 | 549.4 | 800.7 | 894.0 | 614.1 | 401.7 | 401.7 | 396.5 | 388.7 | 334.3 |
| 72.5° | 168.4 | 181.4 | 279.9 | 412.0 | 419.8 | 323.9 | 311.0 | 339.5 | 331.7 | 329.1 | 277.3 |
| 75° | 72.6 | 77.7 | 98.5 | 129.6 | 147.7 | 137.3 | 189.2 | 243.6 | 251.4 | 243.6 | 199.5 |
| 77.5° | 23.3 | 25.9 | 36.3 | 46.6 | 49.2 | 59.6 | 80.3 | 101.1 | 116.6 | 108.8 | 98.5 |
| 80° | 2.6 | 5.2 | 10.4 | 23.3 | 36.3 | 46.6 | 59.6 | 67.4 | 75.1 | 75.1 | 70.0 |
| 82.5° | 2.6 | 2.6 | 10.4 | 20.7 | 33.7 | 44.1 | 57.0 | 64.8 | 75.1 | 77.7 | 72.6 |
| 85° | 0.0 | 2.6 | 7.8 | 18.1 | 28.5 | 28.5 | 25.9 | 25.9 | 18.1 | 18.1 | 18.1 |
| 87.5° | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 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° | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 | 2340.0 |
| 2.5° | 2360.7 | 2355.5 | 2285.6 | 2241.5 | 2218.2 | 2171.5 | 2143.0 | 2122.3 | 2106.8 | 2088.6 | 2091.2 |
| 5° | 2391.8 | 2373.7 | 2257.1 | 2176.7 | 2080.8 | 2029.0 | 1985.0 | 1948.7 | 1925.4 | 1920.2 | 1909.8 |
| 7.5° | 2479.9 | 2384.0 | 2207.8 | 2062.7 | 1940.9 | 1889.1 | 1850.2 | 1826.9 | 1837.3 | 1813.9 | 1832.1 |
| 10° | 2547.3 | 2404.8 | 2148.2 | 1938.3 | 1816.5 | 1777.7 | 1756.9 | 1775.1 | 1801.0 | 1790.6 | 1777.7 |
| 12.5° | 2630.2 | 2425.5 | 2052.3 | 1819.1 | 1705.1 | 1676.6 | 1712.9 | 1746.6 | 1798.4 | 1819.1 | 1793.2 |
| 15° | 2723.5 | 2448.8 | 1930.5 | 1681.8 | 1609.2 | 1632.5 | 1694.7 | 1754.3 | 1806.2 | 1832.1 | 1847.6 |
| 17.5° | 2837.5 | 2441.0 | 1811.3 | 1572.9 | 1518.5 | 1585.9 | 1661.0 | 1715.5 | 1793.2 | 1832.1 | 1821.7 |
| 20° | 2943.8 | 2415.1 | 1679.2 | 1464.1 | 1466.7 | 1528.9 | 1591.1 | 1679.2 | 1720.6 | 1772.5 | 1754.3 |
| 22.5° | 3044.8 | 2368.5 | 1541.8 | 1389.0 | 1389.0 | 1484.8 | 1515.9 | 1572.9 | 1609.2 | 1635.1 | 1632.5 |
| 25° | 3187.3 | 2280.4 | 1427.8 | 1316.4 | 1347.5 | 1409.7 | 1435.6 | 1453.7 | 1438.2 | 1458.9 | 1461.5 |
| 27.5° | 3288.4 | 2189.7 | 1334.5 | 1251.6 | 1308.6 | 1355.3 | 1347.5 | 1337.1 | 1300.9 | 1272.3 | 1290.5 |
| 30° | 3397.2 | 2083.4 | 1254.2 | 1207.6 | 1238.7 | 1280.1 | 1249.0 | 1217.9 | 1160.9 | 1114.3 | 1116.9 |
| 32.5° | 3552.7 | 2034.2 | 1184.2 | 1155.7 | 1197.2 | 1202.4 | 1168.7 | 1122.0 | 1065.0 | 1021.0 | 1018.4 |
| 35° | 3842.9 | 2003.1 | 1124.6 | 1122.0 | 1129.8 | 1132.4 | 1098.7 | 1041.7 | 1018.4 | 982.1 | 995.1 |
| 37.5° | 4133.2 | 1987.6 | 1083.2 | 1072.8 | 1070.2 | 1072.8 | 1033.9 | 979.5 | 1023.6 | 1021.0 | 1026.2 |
| 40° | 4503.7 | 2057.5 | 1023.6 | 1010.6 | 1013.2 | 1013.2 | 964.0 | 948.4 | 1026.2 | 1033.9 | 1036.5 |
| 42.5° | 4879.5 | 2145.6 | 984.7 | 943.2 | 953.6 | 953.6 | 927.7 | 909.6 | 964.0 | 912.1 | 904.4 |
| 45° | 5206.0 | 2275.2 | 943.2 | 875.9 | 901.8 | 914.7 | 907.0 | 875.9 | 842.2 | 754.1 | 754.1 |
| 47.5° | 5312.2 | 2389.2 | 894.0 | 811.1 | 831.8 | 888.8 | 865.5 | 800.7 | 741.1 | 668.6 | 663.4 |
| 50° | 5498.8 | 2513.6 | 855.1 | 735.9 | 780.0 | 850.0 | 826.6 | 761.9 | 694.5 | 642.7 | 645.2 |
| 52.5° | 5690.6 | 2656.1 | 782.6 | 647.8 | 702.3 | 818.9 | 818.9 | 746.3 | 642.7 | 606.4 | 601.2 |
| 55° | 5978.2 | 2650.9 | 653.0 | 531.2 | 627.1 | 772.2 | 785.2 | 668.6 | 575.3 | 546.8 | 546.8 |
| 56° | 6019.7 | 2531.7 | 588.2 | 497.5 | 593.4 | 759.3 | 761.9 | 647.8 | 549.4 | 518.3 | 518.3 |
| 57.5° | 5708.7 | 2285.6 | 515.7 | 456.1 | 552.0 | 735.9 | 738.5 | 629.7 | 528.6 | 484.6 | 479.4 |
| 60° | 4392.3 | 1547.0 | 430.2 | 406.8 | 500.1 | 663.4 | 676.3 | 572.7 | 463.8 | 430.2 | 427.6 |
| 62.5° | 2479.9 | 857.7 | 378.3 | 368.0 | 430.2 | 564.9 | 603.8 | 500.1 | 393.9 | 375.7 | 380.9 |
| 65° | 1132.4 | 471.6 | 318.7 | 298.0 | 347.2 | 435.3 | 487.2 | 412.0 | 323.9 | 303.2 | 303.2 |
| 67.5° | 414.6 | 321.3 | 272.1 | 235.8 | 243.6 | 282.5 | 316.1 | 266.9 | 215.1 | 184.0 | 191.8 |
| 70° | 295.4 | 269.5 | 238.4 | 204.7 | 189.2 | 184.0 | 181.4 | 150.3 | 106.2 | 82.9 | 88.1 |
| 72.5° | 238.4 | 222.9 | 199.5 | 173.6 | 147.7 | 124.4 | 106.2 | 77.7 | 49.2 | 33.7 | 31.1 |
| 75° | 171.0 | 163.3 | 145.1 | 124.4 | 103.7 | 88.1 | 72.6 | 49.2 | 25.9 | 13.0 | 13.0 |
| 77.5° | 88.1 | 88.1 | 85.5 | 77.7 | 64.8 | 51.8 | 41.5 | 28.5 | 15.5 | 5.2 | 5.2 |
| 80° | 67.4 | 72.6 | 75.1 | 67.4 | 59.6 | 46.6 | 33.7 | 20.7 | 10.4 | 2.6 | 2.6 |
| 82.5° | 64.8 | 75.1 | 80.3 | 70.0 | 59.6 | 44.1 | 33.7 | 20.7 | 10.4 | 2.6 | 2.6 |
| 85° | 15.5 | 15.5 | 23.3 | 25.9 | 33.7 | 36.3 | 28.5 | 18.1 | 7.8 | 2.6 | 2.6 |
| 87.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 2.6 | 2.6 | 2.6 | 2.6 | 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)