

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: P532713

Luminaire Tested: **GLAN-SA8A-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24423 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

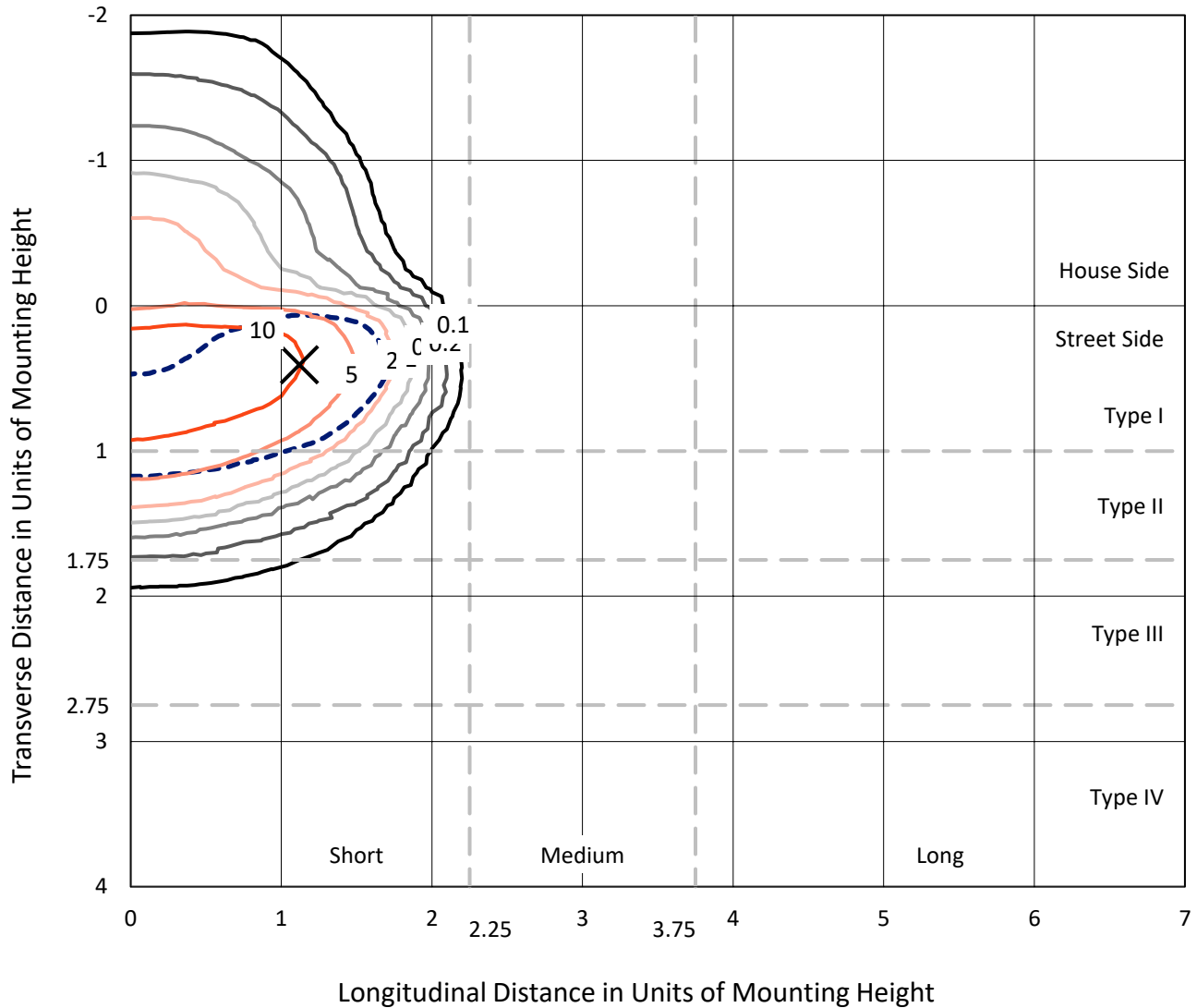
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

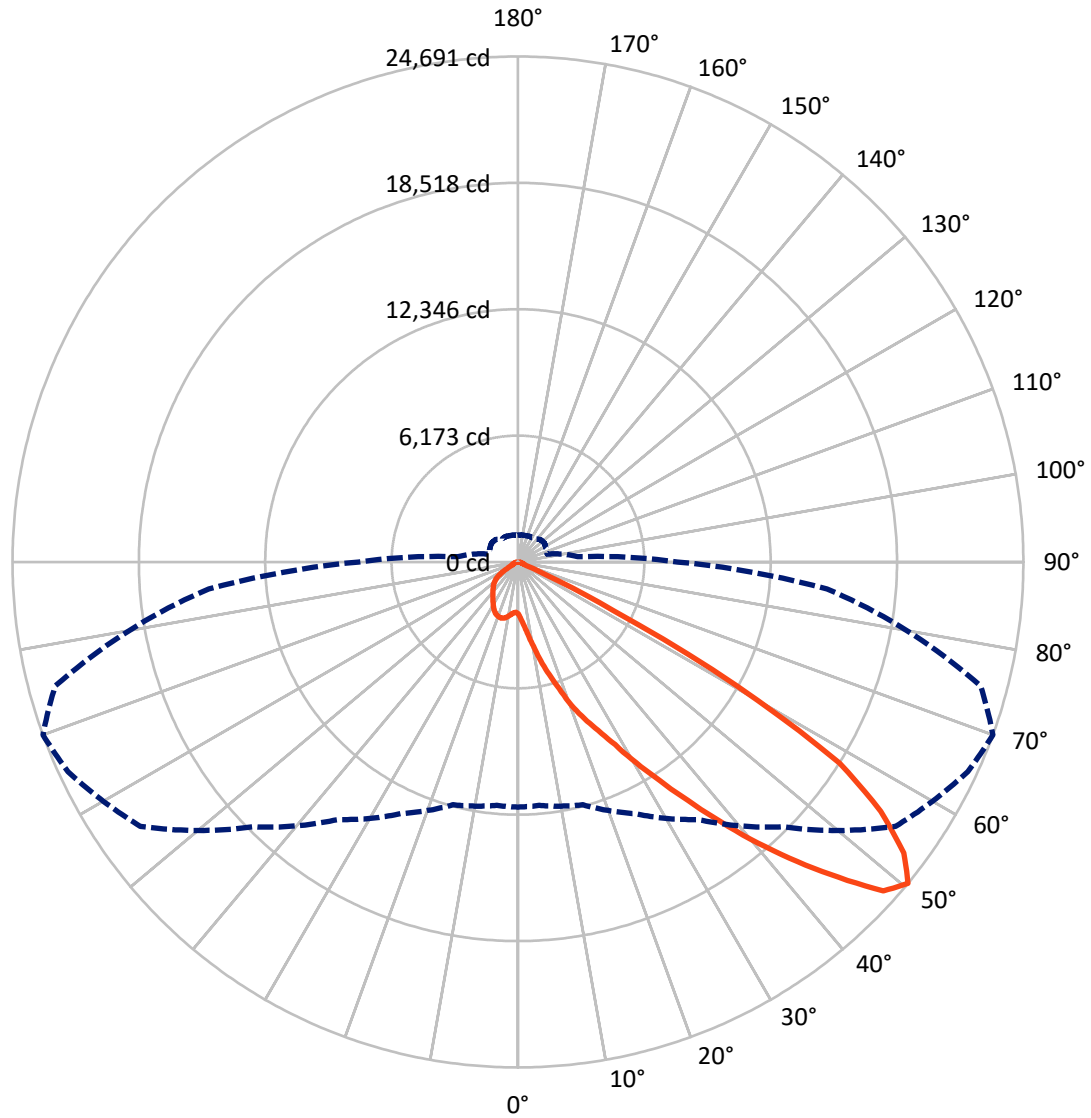
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3410.8 | 0.0 | 3410.8 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 21012.2 | 0.0 | 21012.2 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 24423.0 | 0.0 | 24423.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 329.0 | 1.3 |
| 10°-20° | 1423.0 | 5.8 |
| 20°-30° | 2985.1 | 12.2 |
| 30°-40° | 5145.4 | 21.1 |
| 40°-50° | 7519.9 | 30.8 |
| 50°-60° | 5856.8 | 24.0 |
| 60°-70° | 992.3 | 4.1 |
| 70°-80° | 136.3 | 0.6 |
| 80°-90° | 35.3 | 0.1 |
| 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° | 24423.0 | 100.0 |
| 0°-180° | 24423.0 | 100.0 |

Coefficient of Utilization



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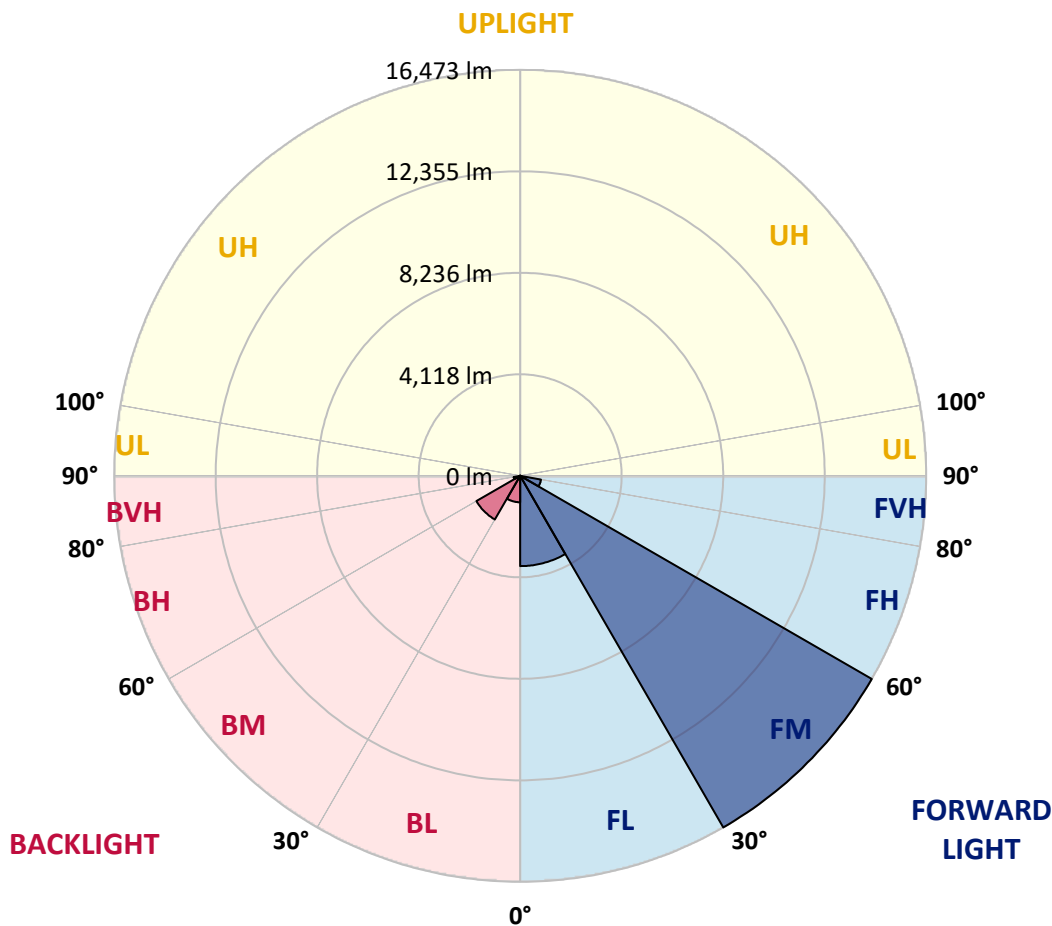
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3663.7 | 15.0 | | | |
| FM (30°-60°) | 16472.9 | 67.4 | | | |
| FH (60°-80°) | 859.2 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 16.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1073.3 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2049.1 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 269.4 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 |
| 2.5° | 3312.8 | 3288.7 | 3236.5 | 3140.1 | 3099.9 | 3003.6 | 2947.4 | 2838.9 | 2770.7 | 2694.4 | 2610.1 |
| 5° | 4666.0 | 4541.5 | 4465.2 | 4356.8 | 4039.6 | 3842.8 | 3517.5 | 3240.5 | 3112.0 | 2971.4 | 2778.7 |
| 7.5° | 6063.3 | 5983.0 | 5878.6 | 5645.7 | 5428.9 | 5019.3 | 4461.2 | 3850.8 | 3589.8 | 3348.9 | 2967.4 |
| 10° | 7219.8 | 6994.9 | 6982.9 | 6810.2 | 6573.3 | 6083.4 | 5412.8 | 4653.9 | 4188.1 | 3834.8 | 3236.5 |
| 12.5° | 8026.9 | 7822.1 | 7914.5 | 7894.4 | 7673.6 | 7223.8 | 6448.8 | 5445.0 | 4959.1 | 4409.0 | 3513.5 |
| 15° | 8761.7 | 8677.4 | 8649.3 | 8625.2 | 8536.9 | 8203.6 | 7508.9 | 6408.7 | 5706.0 | 5043.4 | 3826.7 |
| 17.5° | 9480.5 | 9263.7 | 9368.1 | 9388.2 | 9380.1 | 9079.0 | 8428.5 | 7324.2 | 6497.0 | 5714.0 | 4156.0 |
| 20° | 10119.0 | 10139.0 | 9998.5 | 9970.4 | 9946.3 | 9934.3 | 9299.8 | 8231.7 | 7468.8 | 6416.7 | 4585.7 |
| 22.5° | 10938.1 | 10797.6 | 10922.1 | 10841.8 | 10685.1 | 10588.8 | 10102.9 | 9034.8 | 8312.0 | 7264.0 | 5023.3 |
| 25° | 11905.8 | 12018.3 | 11725.2 | 11693.0 | 11520.4 | 11187.1 | 10749.4 | 9934.3 | 9123.1 | 8051.0 | 5497.2 |
| 27.5° | 13098.4 | 12901.7 | 12825.4 | 12648.7 | 12335.5 | 12195.0 | 11681.0 | 10861.8 | 10102.9 | 8878.2 | 5954.9 |
| 30° | 14122.4 | 14070.2 | 13688.7 | 13479.9 | 13206.9 | 13202.8 | 12484.1 | 12118.7 | 11379.8 | 10175.2 | 6585.4 |
| 32.5° | 14957.6 | 14728.7 | 14588.2 | 14443.6 | 14222.8 | 14283.0 | 13676.7 | 13483.9 | 12741.1 | 11379.8 | 7328.2 |
| 35° | 15515.8 | 15351.1 | 15266.8 | 15045.9 | 14981.7 | 15250.7 | 14997.8 | 14917.4 | 14307.1 | 13074.3 | 8199.6 |
| 37.5° | 15692.4 | 15744.6 | 15728.6 | 15451.5 | 15588.0 | 16314.8 | 16640.1 | 16431.3 | 16110.0 | 14861.2 | 9143.2 |
| 40° | 15849.0 | 15885.2 | 15804.9 | 16130.1 | 16519.6 | 17346.8 | 18523.3 | 18178.0 | 18057.5 | 16672.2 | 10456.3 |
| 42.5° | 15937.4 | 15909.3 | 15909.3 | 16471.4 | 17061.7 | 18724.1 | 20342.3 | 20113.5 | 20021.1 | 18599.6 | 11974.1 |
| 45° | 15555.9 | 15282.9 | 15576.0 | 16338.9 | 17527.5 | 19402.7 | 21795.9 | 22113.2 | 21980.6 | 20892.5 | 13748.9 |
| 47.5° | 14130.4 | 14299.1 | 14463.7 | 15483.6 | 16961.3 | 19193.9 | 22687.4 | 23767.5 | 24012.5 | 22819.9 | 14913.4 |
| 50° | 11974.1 | 11938.0 | 12279.3 | 13564.2 | 15359.1 | 18294.5 | 22514.7 | 24245.4 | 24691.1 | 23398.1 | 15158.4 |
| 52.5° | 8709.5 | 8974.6 | 9344.0 | 10620.9 | 12749.1 | 15965.5 | 20286.1 | 23012.6 | 23606.9 | 22687.4 | 14997.8 |
| 55° | 5071.5 | 4778.4 | 5609.6 | 6689.8 | 8697.5 | 12042.4 | 17150.0 | 20398.6 | 21498.8 | 21394.4 | 14186.6 |
| 57.5° | 2031.8 | 1967.6 | 2252.7 | 3035.7 | 4537.5 | 7464.7 | 12472.0 | 16760.5 | 18523.3 | 19595.5 | 12468.0 |
| 60° | 891.4 | 871.4 | 1023.9 | 1236.8 | 1855.1 | 3441.3 | 6822.3 | 10424.1 | 12263.2 | 13692.7 | 8581.0 |
| 62.5° | 642.5 | 634.4 | 710.7 | 787.0 | 979.8 | 1497.8 | 2867.0 | 4200.2 | 5236.2 | 6324.4 | 3842.8 |
| 65° | 518.0 | 538.1 | 590.3 | 630.4 | 722.8 | 831.2 | 1011.9 | 1168.5 | 1433.5 | 1485.7 | 847.3 |
| 67.5° | 421.6 | 437.7 | 485.9 | 530.0 | 546.1 | 449.7 | 465.8 | 409.6 | 409.6 | 365.4 | 293.1 |
| 70° | 309.2 | 313.2 | 369.4 | 421.6 | 337.3 | 180.7 | 317.2 | 317.2 | 285.1 | 273.1 | 249.0 |
| 72.5° | 228.9 | 232.9 | 277.1 | 261.0 | 132.5 | 112.4 | 232.9 | 257.0 | 232.9 | 220.9 | 200.8 |
| 75° | 168.6 | 172.7 | 144.6 | 60.2 | 56.2 | 72.3 | 136.5 | 176.7 | 168.6 | 164.6 | 152.6 |
| 77.5° | 32.1 | 24.1 | 20.1 | 28.1 | 40.2 | 60.2 | 88.3 | 108.4 | 112.4 | 120.5 | 112.4 |
| 80° | 4.0 | 4.0 | 12.0 | 24.1 | 44.2 | 64.2 | 92.4 | 104.4 | 108.4 | 112.4 | 104.4 |
| 82.5° | 0.0 | 4.0 | 12.0 | 24.1 | 44.2 | 60.2 | 80.3 | 92.4 | 100.4 | 104.4 | 100.4 |
| 85° | 0.0 | 4.0 | 8.0 | 20.1 | 36.1 | 44.2 | 40.2 | 28.1 | 24.1 | 28.1 | 20.1 |
| 87.5° | 0.0 | 0.0 | 4.0 | 4.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 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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CATALOG NUMBER: GLAN-SA8A-750-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 | 2529.7 |
| 2.5° | 2561.9 | 2545.8 | 2489.6 | 2429.4 | 2377.2 | 2401.2 | 2377.2 | 2357.1 | 2365.1 | 2357.1 | 2349.0 |
| 5° | 2702.4 | 2630.1 | 2509.7 | 2457.5 | 2413.3 | 2409.3 | 2397.2 | 2393.2 | 2397.2 | 2397.2 | 2361.1 |
| 7.5° | 2834.9 | 2718.5 | 2590.0 | 2533.8 | 2481.6 | 2485.6 | 2457.5 | 2457.5 | 2453.4 | 2433.4 | 2425.3 |
| 10° | 3035.7 | 2879.1 | 2714.5 | 2614.1 | 2549.8 | 2537.8 | 2509.7 | 2481.6 | 2481.6 | 2481.6 | 2441.4 |
| 12.5° | 3256.5 | 3059.8 | 2834.9 | 2718.5 | 2642.2 | 2581.9 | 2537.8 | 2529.7 | 2485.6 | 2477.5 | 2457.5 |
| 15° | 3449.3 | 3200.3 | 2915.2 | 2754.6 | 2658.2 | 2577.9 | 2509.7 | 2465.5 | 2445.4 | 2433.4 | 2417.3 |
| 17.5° | 3638.0 | 3320.8 | 2959.4 | 2754.6 | 2650.2 | 2557.9 | 2485.6 | 2445.4 | 2397.2 | 2405.3 | 2373.1 |
| 20° | 3891.0 | 3449.3 | 2971.4 | 2702.4 | 2573.9 | 2485.6 | 2389.2 | 2369.1 | 2341.0 | 2316.9 | 2325.0 |
| 22.5° | 4135.9 | 3541.6 | 2935.3 | 2638.2 | 2453.4 | 2349.0 | 2300.9 | 2276.8 | 2264.7 | 2244.6 | 2216.5 |
| 25° | 4356.8 | 3642.0 | 2879.1 | 2521.7 | 2325.0 | 2248.7 | 2204.5 | 2200.5 | 2172.4 | 2172.4 | 2120.2 |
| 27.5° | 4581.6 | 3678.2 | 2782.7 | 2385.2 | 2212.5 | 2168.4 | 2148.3 | 2140.2 | 2128.2 | 2100.1 | 2063.9 |
| 30° | 4838.6 | 3690.2 | 2642.2 | 2244.6 | 2112.1 | 2063.9 | 2092.1 | 2112.1 | 2059.9 | 2007.7 | 2023.8 |
| 32.5° | 5051.5 | 3662.1 | 2473.5 | 2112.1 | 2039.9 | 2015.8 | 2072.0 | 2092.1 | 2031.8 | 1975.6 | 1947.5 |
| 35° | 5308.4 | 3593.8 | 2308.9 | 2007.7 | 1967.6 | 2015.8 | 2063.9 | 2063.9 | 1943.5 | 1875.2 | 1859.2 |
| 37.5° | 5697.9 | 3517.5 | 2156.3 | 1919.4 | 1891.3 | 1991.7 | 2055.9 | 2011.7 | 1823.0 | 1738.7 | 1718.6 |
| 40° | 6115.6 | 3469.4 | 2007.7 | 1831.1 | 1851.1 | 1951.5 | 1987.7 | 1851.1 | 1658.4 | 1606.2 | 1590.1 |
| 42.5° | 6721.9 | 3373.0 | 1875.2 | 1754.8 | 1815.0 | 1895.3 | 1895.3 | 1650.4 | 1578.1 | 1550.0 | 1546.0 |
| 45° | 7476.8 | 3304.7 | 1758.8 | 1690.5 | 1762.8 | 1782.9 | 1718.6 | 1546.0 | 1493.8 | 1485.7 | 1489.7 |
| 47.5° | 7846.2 | 3172.2 | 1638.3 | 1614.2 | 1666.4 | 1670.4 | 1501.8 | 1461.6 | 1417.5 | 1405.4 | 1397.4 |
| 50° | 7790.0 | 2935.3 | 1481.7 | 1513.8 | 1586.1 | 1546.0 | 1369.3 | 1377.3 | 1337.1 | 1333.1 | 1313.1 |
| 52.5° | 7396.5 | 2561.9 | 1325.1 | 1401.4 | 1481.7 | 1365.3 | 1260.9 | 1252.8 | 1252.8 | 1200.6 | 1180.5 |
| 55° | 6557.3 | 2063.9 | 1136.4 | 1232.7 | 1329.1 | 1148.4 | 1120.3 | 1112.3 | 1092.2 | 1044.0 | 1032.0 |
| 57.5° | 5192.0 | 1513.8 | 855.3 | 959.7 | 1128.3 | 975.8 | 971.7 | 935.6 | 883.4 | 847.3 | 847.3 |
| 60° | 3087.9 | 871.4 | 538.1 | 586.3 | 746.9 | 791.0 | 879.4 | 863.3 | 775.0 | 718.8 | 702.7 |
| 62.5° | 1409.4 | 449.7 | 341.3 | 349.3 | 401.5 | 514.0 | 690.7 | 799.1 | 674.6 | 578.2 | 570.2 |
| 65° | 473.8 | 333.3 | 281.1 | 269.0 | 277.1 | 309.2 | 413.6 | 566.2 | 538.1 | 445.7 | 429.7 |
| 67.5° | 289.1 | 297.1 | 265.0 | 244.9 | 244.9 | 240.9 | 236.9 | 257.0 | 317.2 | 309.2 | 313.2 |
| 70° | 249.0 | 273.1 | 244.9 | 220.9 | 212.8 | 200.8 | 168.6 | 140.5 | 120.5 | 140.5 | 148.6 |
| 72.5° | 200.8 | 216.8 | 208.8 | 188.7 | 168.6 | 152.6 | 120.5 | 92.4 | 68.3 | 60.2 | 60.2 |
| 75° | 148.6 | 160.6 | 168.6 | 144.6 | 128.5 | 108.4 | 88.3 | 60.2 | 36.1 | 24.1 | 24.1 |
| 77.5° | 108.4 | 120.5 | 124.5 | 112.4 | 96.4 | 76.3 | 56.2 | 40.2 | 20.1 | 8.0 | 8.0 |
| 80° | 92.4 | 108.4 | 120.5 | 112.4 | 100.4 | 72.3 | 52.2 | 28.1 | 16.1 | 4.0 | 4.0 |
| 82.5° | 88.3 | 108.4 | 120.5 | 108.4 | 96.4 | 68.3 | 52.2 | 32.1 | 12.0 | 4.0 | 4.0 |
| 85° | 20.1 | 28.1 | 36.1 | 44.2 | 52.2 | 52.2 | 40.2 | 24.1 | 12.0 | 4.0 | 4.0 |
| 87.5° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 4.0 | 4.0 | 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)