

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: P532665

Luminaire Tested: **GLAN-SA8A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20921 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

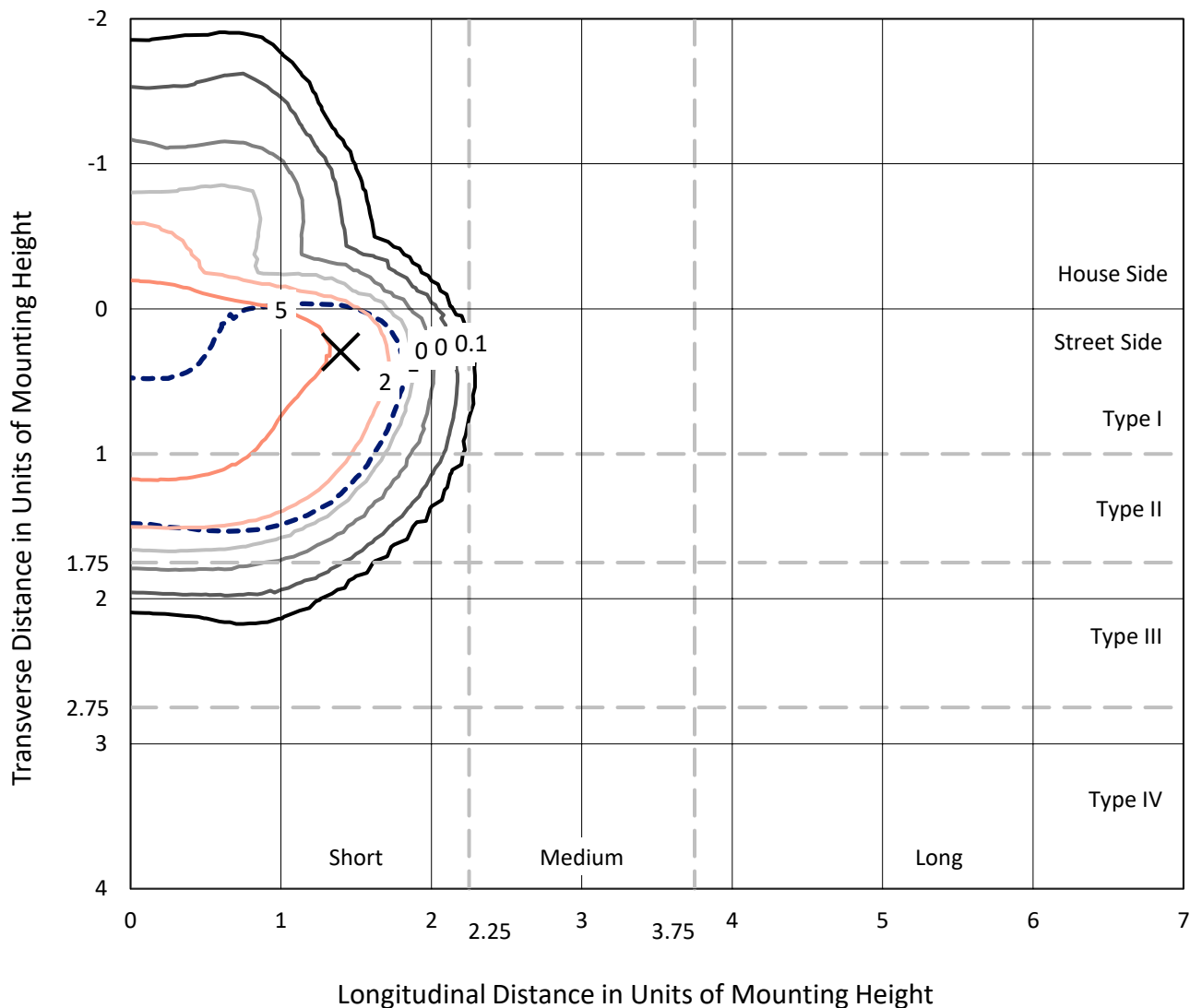
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

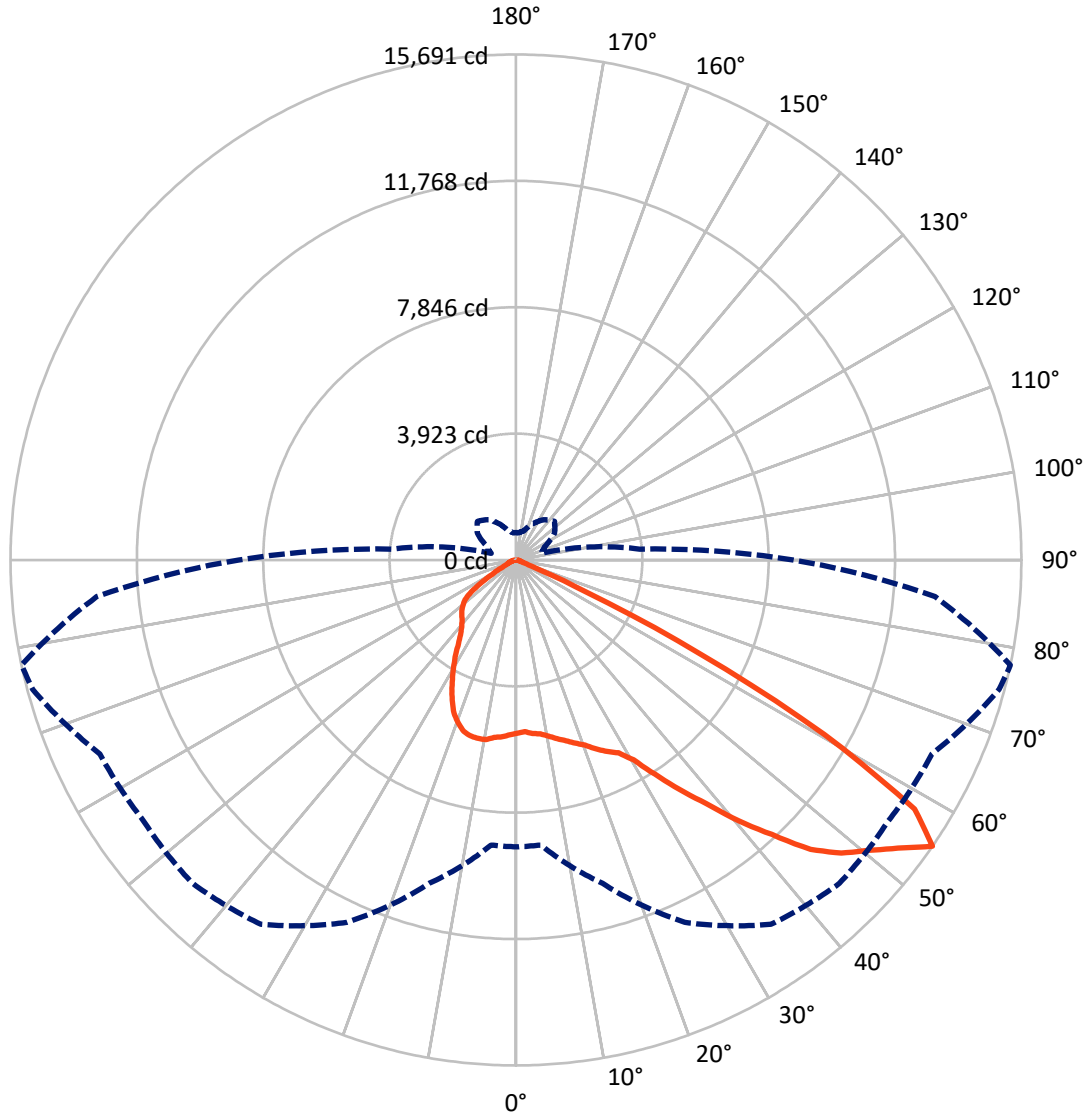
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3885.8 | 0.0 | 3885.8 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 17035.1 | 0.0 | 17035.1 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 20921.0 | 0.0 | 20921.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 479.6 | 2.3 |
| 10°-20° | 1269.3 | 6.1 |
| 20°-30° | 2224.9 | 10.6 |
| 30°-40° | 3668.6 | 17.5 |
| 40°-50° | 5338.2 | 25.5 |
| 50°-60° | 6048.7 | 28.9 |
| 60°-70° | 1729.4 | 8.3 |
| 70°-80° | 134.3 | 0.6 |
| 80°-90° | 27.9 | 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° | 20921.0 | 100.0 |
| 0°-180° | 20921.0 | 100.0 |

Coefficient of Utilization



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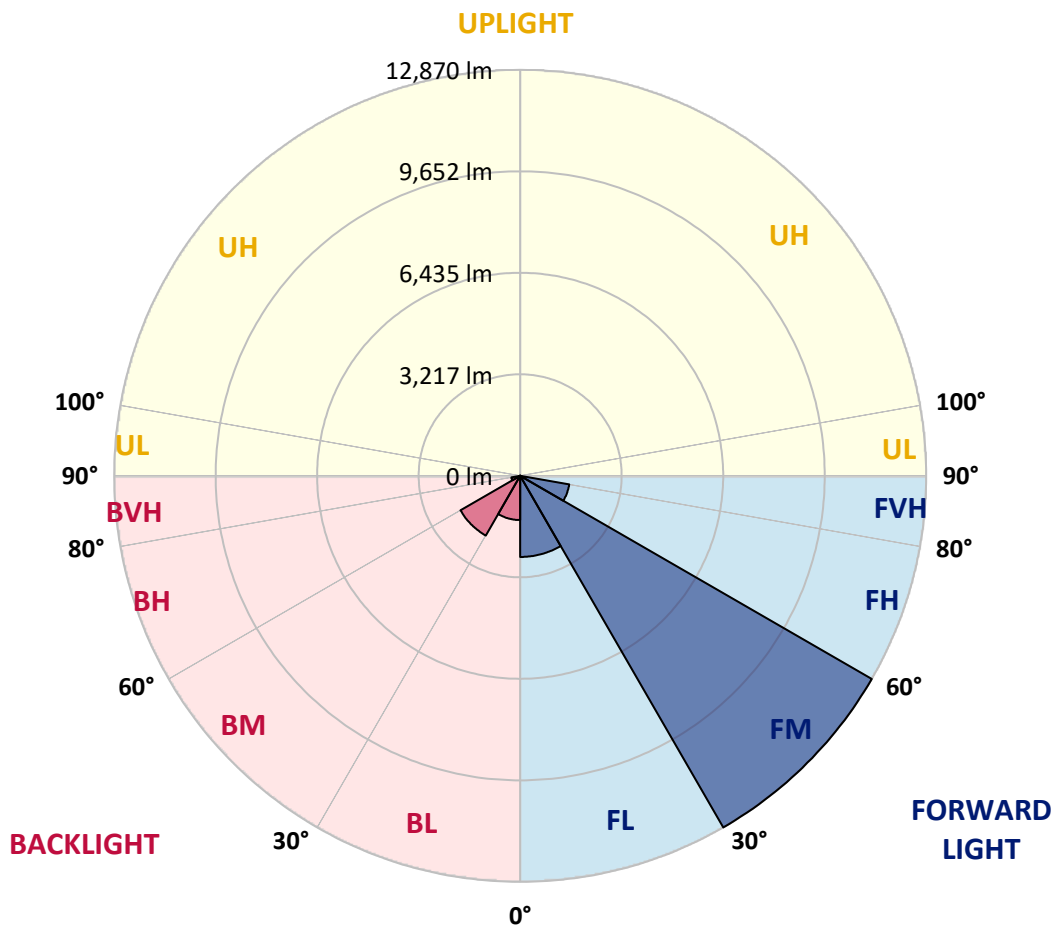
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2571.8 | 12.3 | | | |
| FM (30°-60°) | 12869.7 | 61.5 | | | |
| FH (60°-80°) | 1580.1 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 13.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1402.0 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 2185.8 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 283.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.3 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 |
| 2.5° | 5057.1 | 5105.7 | 5113.2 | 5173.1 | 5169.3 | 5270.3 | 5300.3 | 5304.0 | 5371.3 | 5337.7 | 5423.7 |
| 5° | 4915.0 | 4888.8 | 4877.6 | 4982.3 | 5012.2 | 5102.0 | 5176.8 | 5221.7 | 5360.1 | 5408.7 | 5498.5 |
| 7.5° | 4787.8 | 4787.8 | 4795.3 | 4888.8 | 4877.6 | 4993.5 | 5072.1 | 5210.5 | 5412.5 | 5453.6 | 5562.1 |
| 10° | 4664.4 | 4619.5 | 4675.6 | 4772.8 | 4855.1 | 4907.5 | 5072.1 | 5203.0 | 5438.6 | 5558.3 | 5708.0 |
| 12.5° | 4600.8 | 4623.2 | 4630.7 | 4701.8 | 4791.5 | 4948.6 | 5038.4 | 5255.4 | 5625.7 | 5696.7 | 5857.6 |
| 15° | 5001.0 | 4956.1 | 4847.7 | 4784.1 | 4858.9 | 4933.7 | 5158.1 | 5378.8 | 5722.9 | 5823.9 | 6003.5 |
| 17.5° | 5464.8 | 5427.4 | 5337.7 | 5165.6 | 4997.3 | 5135.7 | 5311.5 | 5513.5 | 5827.7 | 5977.3 | 6242.9 |
| 20° | 6070.8 | 6010.9 | 5921.2 | 5584.5 | 5438.6 | 5289.0 | 5476.1 | 5715.4 | 5999.7 | 6134.4 | 6407.4 |
| 22.5° | 6792.7 | 6792.7 | 6590.7 | 6183.0 | 5880.0 | 5737.9 | 5816.4 | 5954.8 | 6190.5 | 6373.8 | 6643.1 |
| 25° | 7544.5 | 7522.1 | 7338.8 | 6916.1 | 6403.7 | 6235.4 | 6325.1 | 6422.4 | 6486.0 | 6587.0 | 6766.5 |
| 27.5° | 8404.8 | 8273.9 | 8042.0 | 7574.5 | 7121.9 | 6796.4 | 6893.7 | 6807.7 | 6729.1 | 6781.5 | 7039.6 |
| 30° | 8988.4 | 9070.6 | 8775.2 | 8326.3 | 7899.9 | 7537.1 | 7555.8 | 7480.9 | 7121.9 | 7196.7 | 7350.0 |
| 32.5° | 9594.3 | 9646.7 | 9482.1 | 9235.2 | 8808.8 | 8386.1 | 8232.8 | 8169.2 | 7899.9 | 7933.5 | 7783.9 |
| 35° | 10099.3 | 10200.3 | 10054.4 | 9945.9 | 9822.5 | 9482.1 | 9059.4 | 9265.2 | 8831.3 | 8749.0 | 8360.0 |
| 37.5° | 10563.1 | 10533.2 | 10705.2 | 10593.0 | 10566.8 | 10327.4 | 9863.6 | 9904.8 | 9613.0 | 9594.3 | 9145.5 |
| 40° | 10978.3 | 10985.8 | 11221.4 | 11273.8 | 11169.1 | 10742.6 | 10069.4 | 10394.8 | 10630.4 | 10652.9 | 10076.8 |
| 42.5° | 11322.4 | 11423.4 | 11625.4 | 12048.1 | 11891.0 | 11180.3 | 10282.6 | 10637.9 | 11513.2 | 11651.6 | 10959.6 |
| 45° | 11621.7 | 11827.4 | 12078.0 | 12455.8 | 12366.0 | 11801.2 | 10813.7 | 11139.1 | 12455.8 | 12818.6 | 11790.0 |
| 47.5° | 11640.4 | 11909.7 | 12182.7 | 12743.8 | 12856.0 | 12134.1 | 11363.6 | 11932.1 | 13203.9 | 13596.6 | 12395.9 |
| 50° | 11565.5 | 11707.7 | 12253.8 | 12863.5 | 13117.8 | 12676.5 | 12134.1 | 12597.9 | 13929.5 | 14176.4 | 12702.6 |
| 52.5° | 10679.1 | 10787.5 | 11883.5 | 12975.7 | 13589.1 | 13289.9 | 13155.2 | 13525.6 | 14670.1 | 14853.4 | 12990.7 |
| 55° | 8902.3 | 8883.6 | 10391.0 | 12410.9 | 13806.1 | 14198.8 | 14116.5 | 14247.5 | 15526.7 | 15691.3 | 13061.7 |
| 57.5° | 6089.5 | 6429.9 | 7731.6 | 10334.9 | 12478.2 | 13985.6 | 14071.7 | 13854.7 | 14528.0 | 14591.6 | 11386.0 |
| 60° | 3284.1 | 3426.3 | 4473.6 | 6897.4 | 9500.8 | 11397.2 | 11621.7 | 11228.9 | 11176.5 | 10997.0 | 8128.0 |
| 62.5° | 1305.4 | 1376.5 | 1971.2 | 3415.1 | 5176.8 | 6927.4 | 7409.9 | 7249.0 | 6904.9 | 6433.6 | 4208.0 |
| 65° | 620.9 | 665.8 | 980.0 | 1597.2 | 2296.7 | 2887.6 | 3370.2 | 3519.8 | 2595.9 | 2337.8 | 1387.7 |
| 67.5° | 422.7 | 456.3 | 714.4 | 912.7 | 819.2 | 856.6 | 1114.7 | 1036.1 | 609.7 | 519.9 | 385.3 |
| 70° | 321.7 | 344.1 | 572.3 | 620.9 | 366.6 | 258.1 | 288.0 | 269.3 | 250.6 | 254.4 | 250.6 |
| 72.5° | 228.2 | 246.9 | 418.9 | 366.6 | 160.8 | 119.7 | 153.4 | 183.3 | 183.3 | 183.3 | 179.5 |
| 75° | 138.4 | 157.1 | 243.1 | 142.1 | 63.6 | 63.6 | 97.3 | 123.4 | 130.9 | 134.7 | 127.2 |
| 77.5° | 71.1 | 89.8 | 82.3 | 41.1 | 41.1 | 48.6 | 71.1 | 86.0 | 93.5 | 93.5 | 89.8 |
| 80° | 15.0 | 15.0 | 15.0 | 22.4 | 41.1 | 52.4 | 71.1 | 78.5 | 89.8 | 89.8 | 82.3 |
| 82.5° | 0.0 | 3.7 | 11.2 | 22.4 | 37.4 | 48.6 | 67.3 | 78.5 | 89.8 | 93.5 | 86.0 |
| 85° | 0.0 | 3.7 | 7.5 | 15.0 | 26.2 | 29.9 | 26.2 | 22.4 | 22.4 | 22.4 | 22.4 |
| 87.5° | 0.0 | 0.0 | 3.7 | 3.7 | 3.7 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 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° | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 | 5378.8 |
| 2.5° | 5431.2 | 5442.4 | 5423.7 | 5419.9 | 5405.0 | 5449.9 | 5341.4 | 5315.2 | 5382.5 | 5319.0 | 5333.9 |
| 5° | 5502.2 | 5528.4 | 5494.8 | 5438.6 | 5356.4 | 5229.2 | 5120.7 | 4978.6 | 4911.2 | 4862.6 | 4855.1 |
| 7.5° | 5554.6 | 5573.3 | 5539.6 | 5360.1 | 5113.2 | 4791.5 | 4552.2 | 4376.4 | 4238.0 | 4196.8 | 4129.5 |
| 10° | 5767.8 | 5771.6 | 5603.2 | 5206.7 | 4724.2 | 4301.5 | 3935.0 | 3665.7 | 3527.3 | 3441.2 | 3403.8 |
| 12.5° | 5909.9 | 5902.5 | 5562.1 | 4903.8 | 4260.4 | 3699.3 | 3280.4 | 2955.0 | 2827.8 | 2786.7 | 2760.5 |
| 15° | 6089.5 | 6048.3 | 5464.8 | 4593.3 | 3661.9 | 3056.0 | 2678.2 | 2453.8 | 2442.5 | 2416.3 | 2442.5 |
| 17.5° | 6231.6 | 6115.7 | 5322.7 | 4028.5 | 3089.6 | 2517.3 | 2270.5 | 2285.4 | 2315.4 | 2341.5 | 2345.3 |
| 20° | 6463.5 | 6224.1 | 4997.3 | 3534.7 | 2558.5 | 2158.3 | 2154.5 | 2221.8 | 2296.7 | 2326.6 | 2356.5 |
| 22.5° | 6639.3 | 6269.0 | 4649.4 | 3007.3 | 2124.6 | 2012.4 | 2076.0 | 2177.0 | 2233.1 | 2263.0 | 2307.9 |
| 25° | 6702.9 | 6145.6 | 4185.6 | 2479.9 | 1915.1 | 1945.0 | 2042.3 | 2109.6 | 2180.7 | 2214.4 | 2195.7 |
| 27.5° | 6766.5 | 6082.0 | 3632.0 | 2042.3 | 1802.9 | 1900.2 | 1982.5 | 2049.8 | 2072.2 | 2117.1 | 2147.0 |
| 30° | 6919.9 | 5861.3 | 3134.5 | 1765.5 | 1746.8 | 1870.2 | 1930.1 | 1952.5 | 2012.4 | 2038.6 | 2038.6 |
| 32.5° | 7043.3 | 5775.3 | 2607.1 | 1634.6 | 1739.3 | 1885.2 | 1892.7 | 1892.7 | 1900.2 | 1881.5 | 1874.0 |
| 35° | 7297.7 | 5479.8 | 2135.8 | 1556.0 | 1735.6 | 1888.9 | 1907.6 | 1844.1 | 1672.0 | 1604.7 | 1586.0 |
| 37.5° | 7611.9 | 5289.0 | 1787.9 | 1537.3 | 1761.8 | 1933.8 | 1963.7 | 1724.4 | 1499.9 | 1391.5 | 1372.8 |
| 40° | 7993.4 | 5154.4 | 1559.8 | 1529.9 | 1821.6 | 2038.6 | 1948.8 | 1630.8 | 1339.1 | 1182.0 | 1174.5 |
| 42.5° | 8438.5 | 5030.9 | 1406.4 | 1526.1 | 1896.4 | 2147.0 | 1933.8 | 1552.3 | 1174.5 | 1069.8 | 1084.7 |
| 45° | 8793.9 | 4963.6 | 1301.7 | 1499.9 | 1922.6 | 2210.6 | 1945.0 | 1413.9 | 1107.2 | 1039.9 | 1047.3 |
| 47.5° | 9070.6 | 4821.5 | 1215.7 | 1455.0 | 1918.9 | 2233.1 | 1844.1 | 1357.8 | 1073.5 | 1092.2 | 1110.9 |
| 50° | 9078.1 | 4630.7 | 1107.2 | 1357.8 | 1862.8 | 2191.9 | 1728.1 | 1305.4 | 1066.0 | 1144.6 | 1182.0 |
| 52.5° | 8977.1 | 4361.4 | 991.2 | 1219.4 | 1731.8 | 2049.8 | 1623.4 | 1283.0 | 1032.4 | 1024.9 | 1069.8 |
| 55° | 8618.1 | 3856.4 | 796.7 | 987.5 | 1462.5 | 1690.7 | 1529.9 | 1241.8 | 931.4 | 845.3 | 852.8 |
| 57.5° | 6964.8 | 2764.2 | 587.3 | 706.9 | 1036.1 | 1238.1 | 1380.2 | 1223.1 | 837.9 | 718.2 | 721.9 |
| 60° | 4312.8 | 1567.3 | 430.2 | 482.5 | 639.6 | 751.8 | 1118.4 | 1137.1 | 748.1 | 606.0 | 598.5 |
| 62.5° | 2214.4 | 774.3 | 332.9 | 340.4 | 392.7 | 441.4 | 766.8 | 953.8 | 677.0 | 576.0 | 576.0 |
| 65° | 740.6 | 381.5 | 291.8 | 261.8 | 261.8 | 273.1 | 463.8 | 662.1 | 572.3 | 482.5 | 482.5 |
| 67.5° | 317.9 | 284.3 | 254.4 | 228.2 | 209.5 | 198.2 | 261.8 | 385.3 | 426.4 | 366.6 | 351.6 |
| 70° | 246.9 | 239.4 | 220.7 | 190.8 | 164.6 | 149.6 | 153.4 | 198.2 | 243.1 | 235.6 | 228.2 |
| 72.5° | 183.3 | 183.3 | 175.8 | 149.6 | 127.2 | 108.5 | 101.0 | 104.7 | 116.0 | 119.7 | 123.4 |
| 75° | 127.2 | 130.9 | 130.9 | 116.0 | 93.5 | 78.5 | 67.3 | 56.1 | 44.9 | 37.4 | 33.7 |
| 77.5° | 86.0 | 89.8 | 97.3 | 86.0 | 71.1 | 52.4 | 41.1 | 29.9 | 18.7 | 7.5 | 7.5 |
| 80° | 74.8 | 86.0 | 93.5 | 86.0 | 74.8 | 56.1 | 41.1 | 22.4 | 11.2 | 0.0 | 0.0 |
| 82.5° | 78.5 | 86.0 | 97.3 | 82.3 | 71.1 | 52.4 | 41.1 | 26.2 | 11.2 | 3.7 | 0.0 |
| 85° | 18.7 | 18.7 | 22.4 | 26.2 | 33.7 | 37.4 | 29.9 | 18.7 | 11.2 | 3.7 | 0.0 |
| 87.5° | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 3.7 | 3.7 | 3.7 | 3.7 | 0.0 | 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)