

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: P534067

Luminaire Tested: **GLAN-SA9C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35455 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

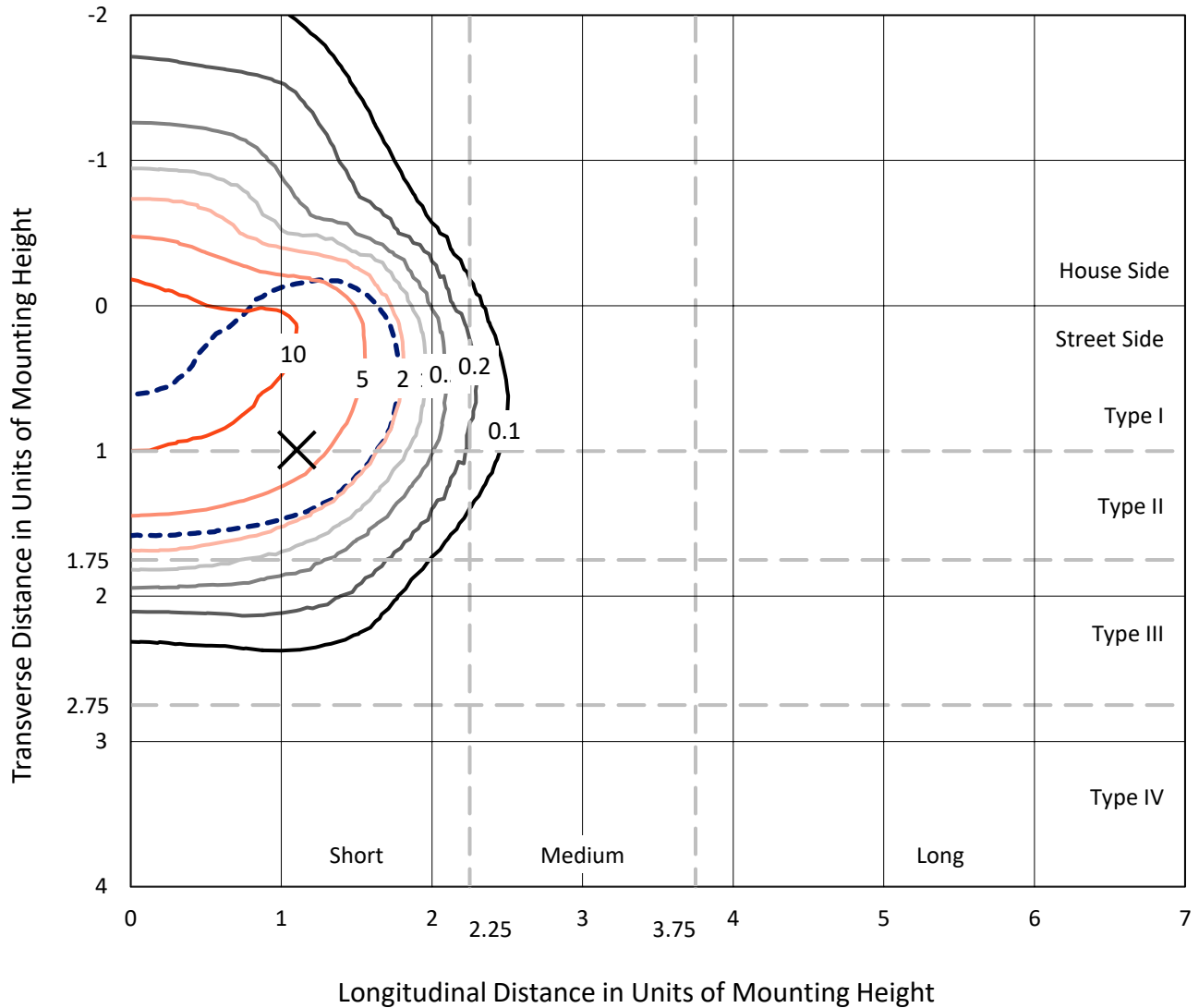
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

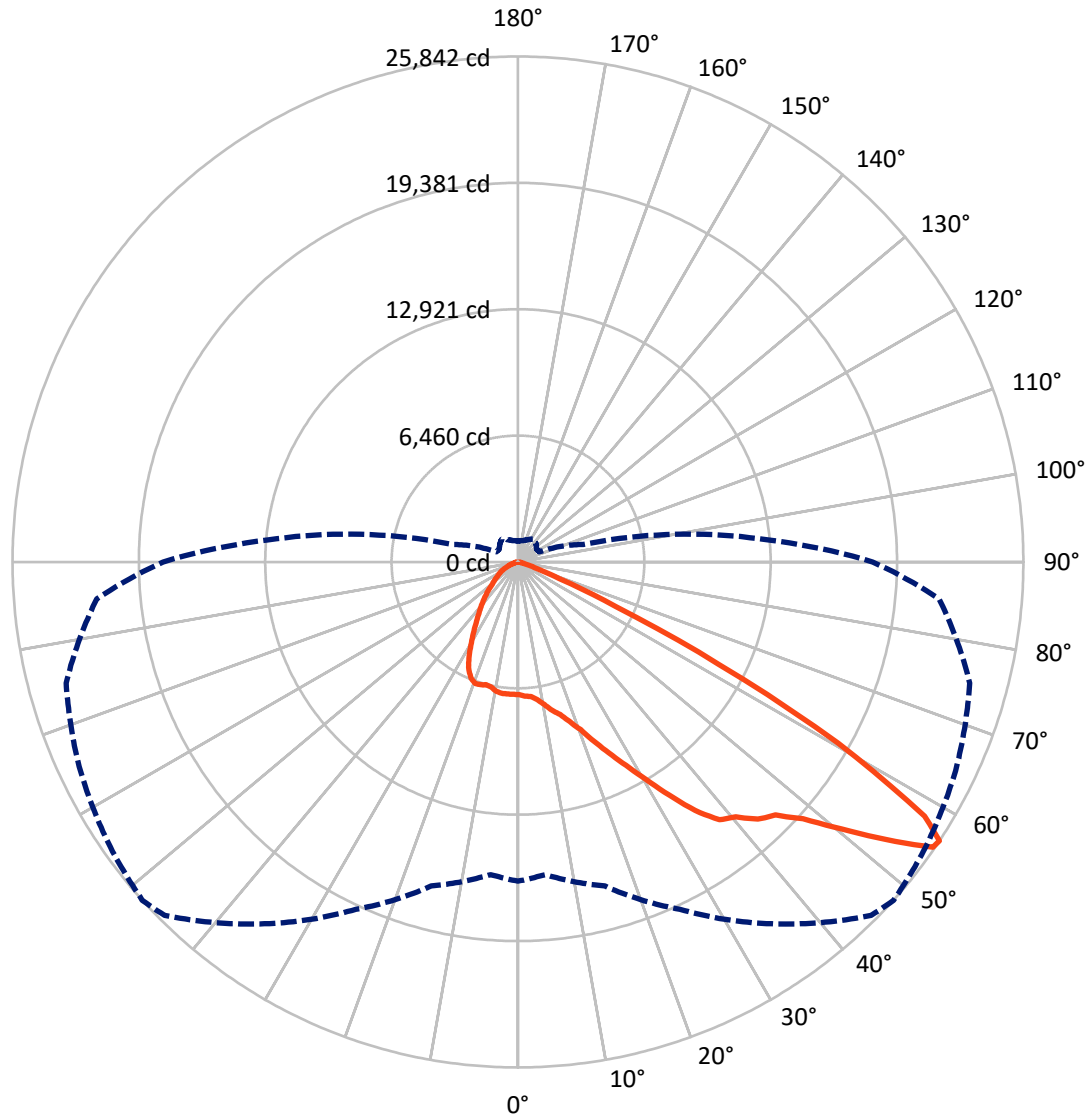
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7710.8 | 0.0 | 7710.8 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 27744.2 | 0.0 | 27744.2 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 35455.0 | 0.0 | 35455.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 659.7 | 1.9 |
| 10°-20° | 2108.2 | 5.9 |
| 20°-30° | 3823.8 | 10.8 |
| 30°-40° | 6006.4 | 16.9 |
| 40°-50° | 8762.2 | 24.7 |
| 50°-60° | 10556.8 | 29.8 |
| 60°-70° | 3090.9 | 8.7 |
| 70°-80° | 392.1 | 1.1 |
| 80°-90° | 55.0 | 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° | 35455.0 | 100.0 |
| 0°-180° | 35455.0 | 100.0 |

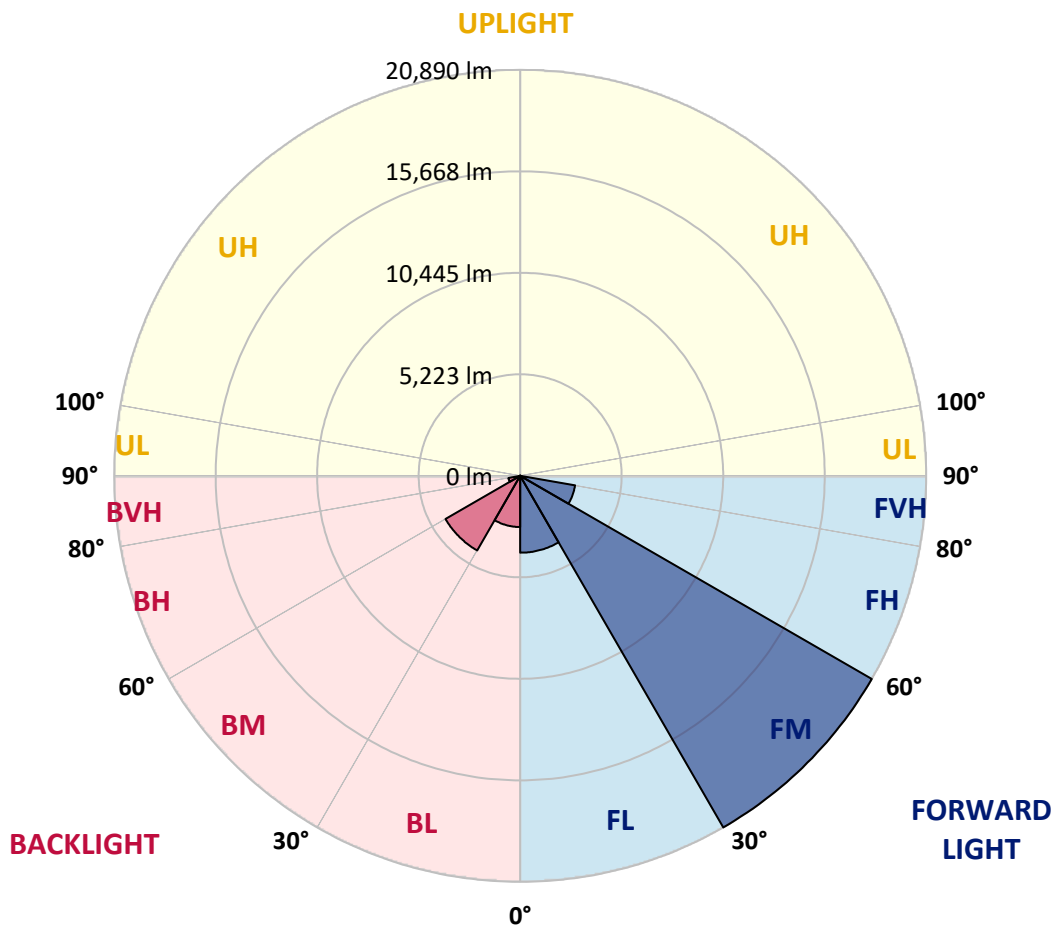


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3956.1 | 11.2 | | | |
| FM (30°-60°) | 20890.2 | 58.9 | | | |
| FH (60°-80°) | 2870.3 | 8.1 | | | G2/5000 |
| FVH (80°-90°) | 27.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2635.5 | 7.4 | B4/5000 | | |
| BM (30°-60°) | 4435.2 | 12.5 | B3/5000 | | |
| BH (60°-80°) | 612.7 | 1.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 |
| 2.5° | 6894.6 | 6862.3 | 6862.3 | 6810.7 | 6868.8 | 6842.9 | 6862.3 | 6797.7 | 6862.3 | 6765.5 | 6842.9 |
| 5° | 6926.9 | 6933.3 | 6907.5 | 6939.8 | 6939.8 | 6978.5 | 6913.9 | 6972.0 | 7004.3 | 6933.3 | 6901.0 |
| 7.5° | 7094.7 | 7107.6 | 7101.2 | 7075.3 | 7127.0 | 7120.5 | 7114.1 | 7068.9 | 7081.8 | 7056.0 | 7017.2 |
| 10° | 7423.9 | 7417.5 | 7449.8 | 7385.2 | 7346.5 | 7391.7 | 7404.6 | 7333.6 | 7281.9 | 7262.5 | 7139.9 |
| 12.5° | 7901.6 | 7824.2 | 7779.0 | 7714.4 | 7733.8 | 7669.2 | 7785.4 | 7662.8 | 7637.0 | 7520.8 | 7398.1 |
| 15° | 8289.0 | 8276.1 | 8282.5 | 8179.2 | 8063.0 | 8088.9 | 8088.9 | 8024.3 | 7985.6 | 7843.5 | 7669.2 |
| 17.5° | 9083.0 | 8811.9 | 8870.0 | 8740.9 | 8644.0 | 8637.6 | 8579.5 | 8592.4 | 8489.1 | 8192.2 | 7927.5 |
| 20° | 9702.8 | 9586.6 | 9496.2 | 9276.7 | 9128.2 | 9173.4 | 9147.6 | 9083.0 | 9050.7 | 8663.4 | 8289.0 |
| 22.5° | 10257.9 | 10296.7 | 10148.2 | 10090.1 | 9883.5 | 9902.9 | 9954.5 | 9896.4 | 9651.1 | 9250.9 | 8695.7 |
| 25° | 11039.1 | 10993.9 | 10793.8 | 10722.7 | 10529.1 | 10600.1 | 10800.2 | 10755.0 | 10600.1 | 9877.1 | 9012.0 |
| 27.5° | 11962.2 | 11807.3 | 11846.0 | 11523.2 | 11336.0 | 11536.2 | 11775.0 | 12001.0 | 11562.0 | 10613.0 | 9386.4 |
| 30° | 12614.2 | 12452.8 | 12439.9 | 12427.0 | 12381.8 | 12614.2 | 12891.8 | 13098.4 | 12743.3 | 11348.9 | 10006.2 |
| 32.5° | 12937.0 | 12975.7 | 13085.5 | 13046.8 | 13440.6 | 13918.3 | 14208.8 | 14505.7 | 14060.3 | 12549.7 | 10826.0 |
| 35° | 13795.6 | 13550.3 | 13795.6 | 13821.4 | 14228.1 | 15241.7 | 15609.6 | 16319.7 | 16210.0 | 14247.5 | 11826.7 |
| 37.5° | 14299.1 | 14279.8 | 14312.1 | 14557.4 | 14951.2 | 16203.5 | 16726.4 | 17275.2 | 17068.6 | 15267.5 | 13072.6 |
| 40° | 15131.9 | 15183.6 | 15177.1 | 15364.3 | 15796.8 | 16926.6 | 17139.6 | 17585.0 | 17604.4 | 16681.3 | 14906.0 |
| 42.5° | 16468.2 | 16261.6 | 16126.1 | 16319.7 | 16926.6 | 17552.8 | 17978.8 | 17888.5 | 18527.6 | 18398.4 | 17262.3 |
| 45° | 17669.0 | 17791.6 | 17591.5 | 17914.3 | 18133.8 | 18469.5 | 18456.5 | 18650.2 | 19463.6 | 20076.9 | 19037.6 |
| 47.5° | 18792.2 | 18869.7 | 18966.5 | 19186.0 | 19663.7 | 19715.4 | 19605.6 | 19521.7 | 20645.0 | 21277.6 | 20412.6 |
| 50° | 19463.6 | 19534.6 | 19986.5 | 20380.3 | 21271.2 | 21387.4 | 21451.9 | 21238.9 | 22000.7 | 22071.7 | 21710.2 |
| 52.5° | 19282.9 | 19360.3 | 19993.0 | 21290.6 | 22710.8 | 23776.0 | 23582.3 | 23220.8 | 23175.6 | 23453.2 | 22910.9 |
| 55° | 17681.9 | 17610.9 | 18482.4 | 20503.0 | 23162.7 | 25719.1 | 25744.9 | 25364.0 | 24634.6 | 24447.3 | 22730.2 |
| 56° | 16319.7 | 16042.2 | 17152.5 | 19592.7 | 22581.7 | 25551.2 | 25841.8 | 25435.0 | 24750.8 | 23911.5 | 21613.3 |
| 57.5° | 13369.5 | 13634.2 | 14738.1 | 16758.7 | 20574.0 | 24344.1 | 24511.9 | 24415.1 | 23898.6 | 22491.3 | 19018.2 |
| 60° | 7372.3 | 7837.1 | 8811.9 | 11284.4 | 14647.7 | 18682.5 | 18818.1 | 19605.6 | 19702.5 | 17223.5 | 13085.5 |
| 62.5° | 3131.0 | 3079.3 | 4092.8 | 5913.3 | 8340.6 | 11277.9 | 11529.7 | 12336.6 | 12485.1 | 9928.7 | 6565.3 |
| 65° | 1271.8 | 1342.8 | 1852.8 | 2976.0 | 4409.2 | 5138.7 | 5493.7 | 5758.4 | 6249.0 | 4099.3 | 2420.8 |
| 67.5° | 839.2 | 832.8 | 1091.0 | 1697.8 | 2375.7 | 2291.7 | 2291.7 | 2420.8 | 2240.1 | 1672.0 | 1045.8 |
| 70° | 600.4 | 619.7 | 781.1 | 1174.9 | 1478.3 | 1097.5 | 1052.3 | 1007.1 | 1142.6 | 1103.9 | 845.7 |
| 72.5° | 393.8 | 419.6 | 522.9 | 703.7 | 768.2 | 600.4 | 600.4 | 723.0 | 942.5 | 890.9 | 690.7 |
| 75° | 258.2 | 264.7 | 322.8 | 406.7 | 380.9 | 309.9 | 342.1 | 484.2 | 684.3 | 658.5 | 490.6 |
| 77.5° | 174.3 | 180.8 | 219.5 | 264.7 | 213.0 | 174.3 | 187.2 | 245.3 | 335.7 | 335.7 | 258.2 |
| 80° | 64.6 | 71.0 | 90.4 | 83.9 | 96.8 | 122.7 | 135.6 | 167.8 | 200.1 | 200.1 | 174.3 |
| 82.5° | 0.0 | 6.5 | 19.4 | 45.2 | 71.0 | 96.8 | 109.7 | 129.1 | 148.5 | 167.8 | 161.4 |
| 85° | 0.0 | 6.5 | 19.4 | 32.3 | 51.6 | 58.1 | 64.6 | 45.2 | 38.7 | 38.7 | 32.3 |
| 87.5° | 0.0 | 0.0 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 12.9 | 6.5 | 6.5 |
| 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° | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 | 6771.9 |
| 2.5° | 6771.9 | 6765.5 | 6765.5 | 6746.1 | 6784.8 | 6765.5 | 6778.4 | 6771.9 | 6688.0 | 6752.6 | 6707.4 |
| 5° | 6842.9 | 6888.1 | 6817.1 | 6804.2 | 6752.6 | 6771.9 | 6771.9 | 6707.4 | 6765.5 | 6759.0 | 6746.1 |
| 7.5° | 7023.7 | 6946.2 | 6868.8 | 6791.3 | 6778.4 | 6759.0 | 6688.0 | 6662.2 | 6707.4 | 6655.7 | 6733.2 |
| 10° | 7101.2 | 7114.1 | 6997.9 | 6894.6 | 6797.7 | 6662.2 | 6565.3 | 6507.2 | 6436.2 | 6513.7 | 6558.9 |
| 12.5° | 7456.2 | 7327.1 | 7127.0 | 6965.6 | 6636.4 | 6500.8 | 6404.0 | 6378.1 | 6500.8 | 6526.6 | 6481.4 |
| 15° | 7578.9 | 7559.5 | 7301.3 | 6939.8 | 6597.6 | 6436.2 | 6455.6 | 6404.0 | 6416.9 | 6352.3 | 6365.2 |
| 17.5° | 7830.6 | 7611.1 | 7307.7 | 6855.8 | 6591.2 | 6552.4 | 6436.2 | 6229.7 | 6113.4 | 6061.8 | 6107.0 |
| 20° | 8108.2 | 7895.2 | 7456.2 | 6888.1 | 6649.3 | 6546.0 | 6165.1 | 5913.3 | 5674.5 | 5545.4 | 5551.8 |
| 22.5° | 8353.5 | 8088.9 | 7391.7 | 6901.0 | 6700.9 | 6274.8 | 5816.5 | 5319.4 | 5022.5 | 4822.3 | 4828.8 |
| 25° | 8650.5 | 8276.1 | 7417.5 | 6926.9 | 6565.3 | 5842.3 | 5183.8 | 4699.7 | 4344.6 | 4209.0 | 4254.2 |
| 27.5° | 8818.3 | 8392.3 | 7559.5 | 6985.0 | 6210.3 | 5229.0 | 4518.9 | 4067.0 | 3860.4 | 3795.9 | 3789.4 |
| 30° | 9321.9 | 8650.5 | 7733.8 | 6868.8 | 5616.4 | 4570.6 | 3912.1 | 3634.5 | 3434.4 | 3376.3 | 3389.2 |
| 32.5° | 10070.7 | 9121.8 | 7959.8 | 6565.3 | 5009.5 | 3983.1 | 3518.3 | 3311.7 | 3124.5 | 3014.8 | 3001.9 |
| 35° | 10696.9 | 9928.7 | 8198.6 | 6094.1 | 4305.9 | 3531.2 | 3240.7 | 2982.5 | 2698.4 | 2575.8 | 2543.5 |
| 37.5° | 11891.2 | 10838.9 | 8147.0 | 5384.0 | 3634.5 | 3195.5 | 2943.8 | 2627.4 | 2382.1 | 2214.3 | 2194.9 |
| 40° | 13479.3 | 11904.1 | 7895.2 | 4518.9 | 3137.4 | 2898.6 | 2627.4 | 2324.0 | 2020.6 | 1878.6 | 1865.7 |
| 42.5° | 15409.5 | 13208.1 | 7436.8 | 3641.0 | 2640.3 | 2601.6 | 2356.3 | 2007.7 | 1736.6 | 1633.3 | 1639.7 |
| 45° | 16978.2 | 14325.0 | 6972.0 | 2924.4 | 2272.4 | 2311.1 | 2098.1 | 1768.8 | 1581.6 | 1497.7 | 1497.7 |
| 47.5° | 18372.6 | 15080.3 | 6468.5 | 2414.4 | 1930.2 | 2020.6 | 1833.4 | 1639.7 | 1478.3 | 1413.8 | 1400.9 |
| 50° | 19715.4 | 15848.5 | 5965.0 | 1956.0 | 1646.2 | 1736.6 | 1717.2 | 1562.3 | 1433.1 | 1355.7 | 1362.1 |
| 52.5° | 20554.6 | 15971.1 | 5325.9 | 1601.0 | 1439.6 | 1542.9 | 1607.4 | 1465.4 | 1323.4 | 1278.2 | 1265.3 |
| 55° | 19528.2 | 14389.5 | 4131.6 | 1316.9 | 1220.1 | 1355.7 | 1478.3 | 1316.9 | 1207.2 | 1129.7 | 1123.3 |
| 56° | 18146.7 | 12866.0 | 3453.7 | 1213.7 | 1155.6 | 1304.0 | 1433.1 | 1258.8 | 1136.2 | 1091.0 | 1058.7 |
| 57.5° | 15364.3 | 10529.1 | 2550.0 | 1078.1 | 1071.6 | 1213.7 | 1362.1 | 1200.7 | 1058.7 | 1020.0 | 1020.0 |
| 60° | 9580.1 | 5926.2 | 1542.9 | 903.8 | 929.6 | 1078.1 | 1226.6 | 1071.6 | 942.5 | 942.5 | 961.9 |
| 62.5° | 4364.0 | 2466.0 | 936.1 | 768.2 | 800.5 | 929.6 | 1091.0 | 968.3 | 897.3 | 968.3 | 981.3 |
| 65° | 1484.8 | 1065.2 | 677.8 | 613.3 | 632.6 | 768.2 | 936.1 | 981.3 | 974.8 | 1020.0 | 1045.8 |
| 67.5° | 832.8 | 684.3 | 568.1 | 510.0 | 497.1 | 568.1 | 768.2 | 981.3 | 942.5 | 923.2 | 936.1 |
| 70° | 703.7 | 581.0 | 503.5 | 451.9 | 432.5 | 458.3 | 593.9 | 742.4 | 664.9 | 645.6 | 632.6 |
| 72.5° | 568.1 | 484.2 | 439.0 | 406.7 | 348.6 | 297.0 | 271.1 | 284.0 | 316.3 | 335.7 | 368.0 |
| 75° | 400.2 | 368.0 | 368.0 | 329.2 | 251.8 | 187.2 | 148.5 | 122.7 | 83.9 | 58.1 | 64.6 |
| 77.5° | 225.9 | 225.9 | 232.4 | 200.1 | 161.4 | 122.7 | 90.4 | 64.6 | 32.3 | 12.9 | 6.5 |
| 80° | 154.9 | 167.8 | 180.8 | 161.4 | 135.6 | 109.7 | 77.5 | 45.2 | 19.4 | 0.0 | 0.0 |
| 82.5° | 154.9 | 174.3 | 187.2 | 161.4 | 135.6 | 103.3 | 77.5 | 45.2 | 19.4 | 6.5 | 0.0 |
| 85° | 32.3 | 38.7 | 45.2 | 51.6 | 77.5 | 77.5 | 58.1 | 38.7 | 19.4 | 6.5 | 0.0 |
| 87.5° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 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)