

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: P533309

Luminaire Tested: **GLAN-SA8D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533309
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-SA8D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA 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: 30817 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

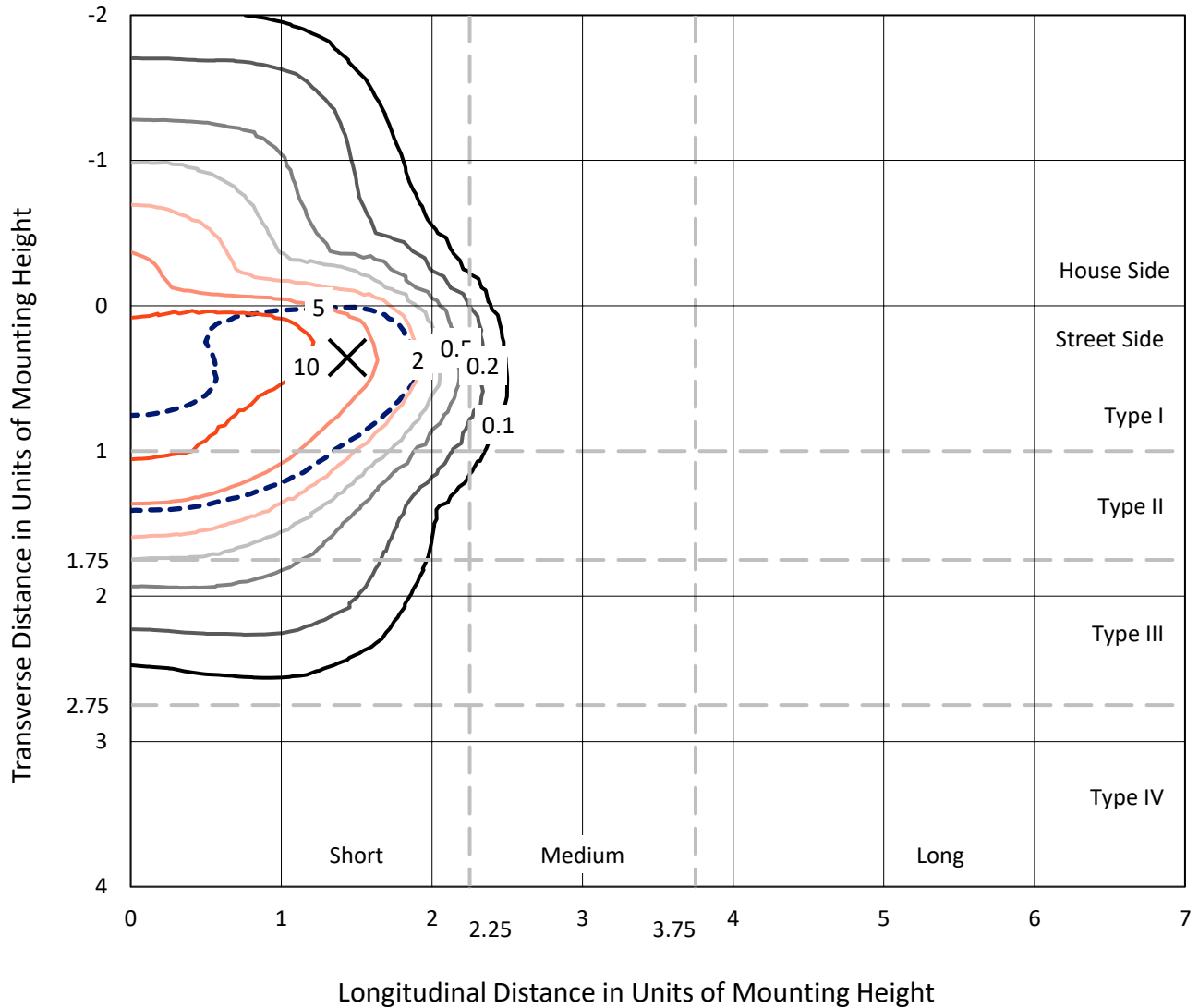
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

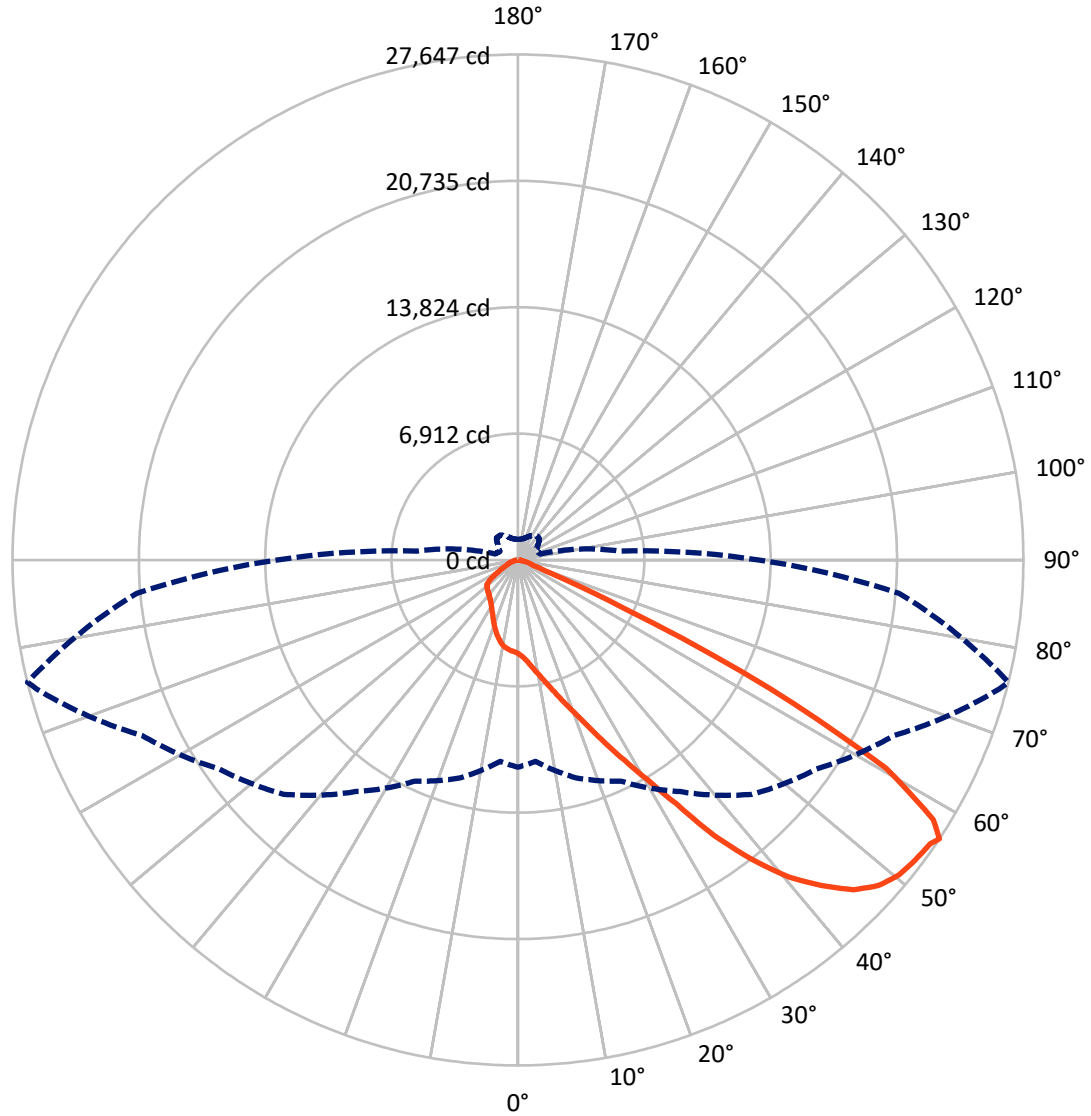
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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 | 4841.2 | 0.0 | 4841.2 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 25975.8 | 0.0 | 25975.8 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 30817.0 | 0.0 | 30817.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 516.7 | 1.7 |
| 10°-20° | 1660.1 | 5.4 |
| 20°-30° | 3010.1 | 9.8 |
| 30°-40° | 5191.1 | 16.8 |
| 40°-50° | 8433.1 | 27.4 |
| 50°-60° | 8888.8 | 28.8 |
| 60°-70° | 2715.9 | 8.8 |
| 70°-80° | 348.2 | 1.1 |
| 80°-90° | 52.9 | 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° | 30817.0 | 100.0 |
| 0°-180° | 30817.0 | 100.0 |

Coefficient of Utilization

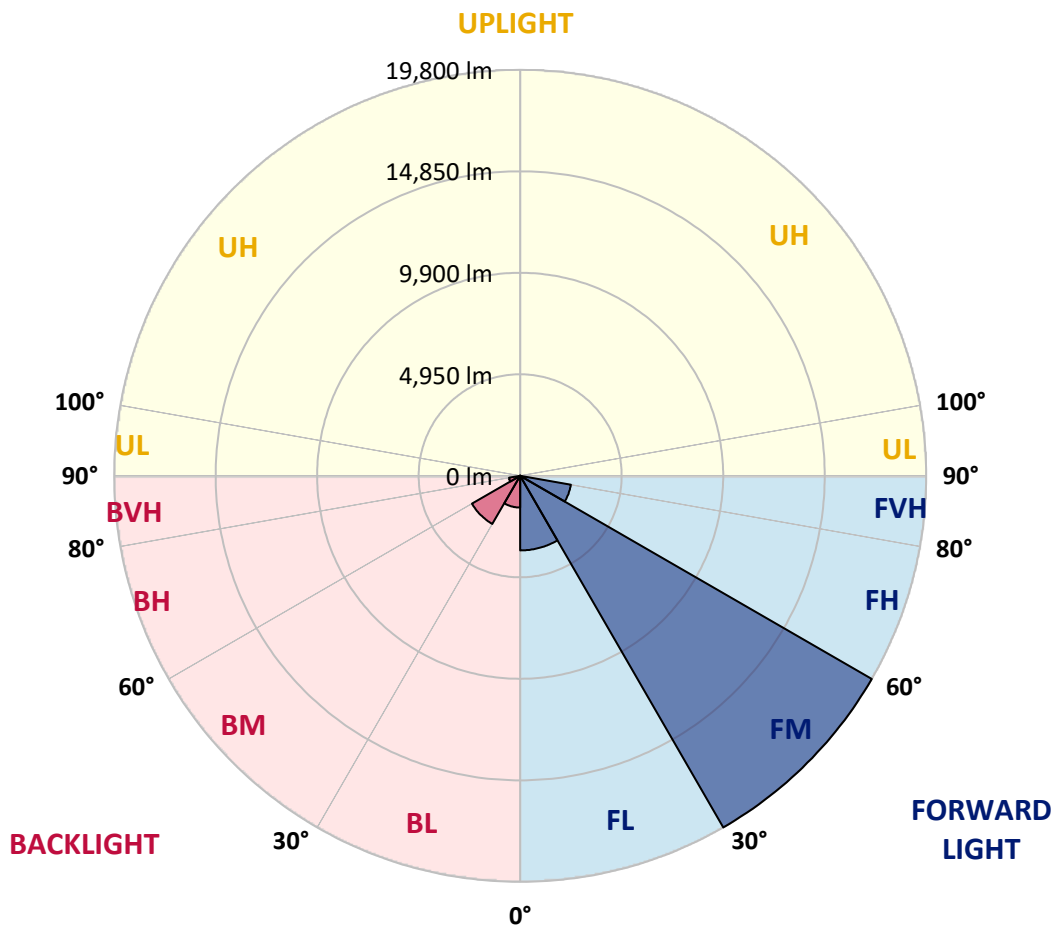


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3638.2 | 11.8 | | | |
| FM (30°-60°) | 19799.9 | 64.2 | | | |
| FH (60°-80°) | 2511.8 | 8.2 | | | G2/5000 |
| FVH (80°-90°) | 25.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1548.7 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 2713.2 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 552.3 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.0 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 |
| 2.5° | 5907.8 | 5771.4 | 5777.1 | 5765.8 | 5748.7 | 5686.2 | 5498.8 | 5470.4 | 5345.4 | 5311.3 | 5197.7 |
| 5° | 6617.8 | 6498.5 | 6566.7 | 6464.5 | 6367.9 | 6311.1 | 6004.3 | 5862.3 | 5663.5 | 5589.7 | 5430.6 |
| 7.5° | 7060.9 | 7004.1 | 6981.4 | 6987.1 | 6896.2 | 6754.2 | 6617.8 | 6305.4 | 6038.4 | 5981.6 | 5646.5 |
| 10° | 7276.8 | 7242.7 | 7276.8 | 7259.7 | 7299.5 | 7316.5 | 7078.0 | 6890.5 | 6498.5 | 6402.0 | 5879.4 |
| 12.5° | 7327.9 | 7396.1 | 7424.5 | 7498.3 | 7594.9 | 7759.6 | 7742.6 | 7487.0 | 6964.4 | 6901.9 | 6237.2 |
| 15° | 7452.9 | 7509.7 | 7481.3 | 7600.6 | 7782.4 | 8060.7 | 8208.4 | 8168.6 | 7606.3 | 7492.6 | 6651.9 |
| 17.5° | 7566.5 | 7464.2 | 7560.8 | 7799.4 | 7981.2 | 8407.2 | 8765.1 | 8929.8 | 8305.0 | 8174.3 | 7032.5 |
| 20° | 7719.9 | 7691.5 | 7674.4 | 7793.7 | 8117.5 | 8685.6 | 9395.6 | 9696.7 | 9088.9 | 8952.5 | 7577.9 |
| 22.5° | 8185.7 | 8191.4 | 8180.0 | 8003.9 | 8236.8 | 8878.7 | 9946.6 | 10690.8 | 10026.2 | 9912.6 | 8197.0 |
| 25° | 8799.2 | 8725.3 | 8668.5 | 8526.5 | 8498.1 | 9054.8 | 10503.3 | 11906.4 | 11150.9 | 11071.4 | 8867.3 |
| 27.5° | 9446.8 | 9446.8 | 9276.3 | 9145.7 | 8963.9 | 9492.2 | 11014.6 | 13088.0 | 12508.6 | 12400.6 | 9452.4 |
| 30° | 10151.1 | 10190.9 | 10168.2 | 9889.8 | 9776.2 | 9969.4 | 11537.2 | 14599.0 | 14065.0 | 13928.7 | 10418.1 |
| 32.5° | 11190.7 | 11105.5 | 11202.0 | 10969.1 | 10634.0 | 10804.4 | 12360.9 | 15951.0 | 16087.3 | 15894.2 | 11684.9 |
| 35° | 12565.4 | 12514.2 | 12451.8 | 12071.2 | 11673.5 | 11809.9 | 13525.4 | 17615.4 | 18626.5 | 18530.0 | 12963.0 |
| 37.5° | 13798.1 | 13769.7 | 13718.5 | 13457.2 | 12997.1 | 13161.8 | 14849.0 | 19348.0 | 21103.2 | 20785.1 | 14769.4 |
| 40° | 15093.2 | 15246.6 | 15081.9 | 14849.0 | 14428.6 | 14792.2 | 16405.4 | 20376.1 | 23188.0 | 22801.7 | 16149.8 |
| 42.5° | 16848.5 | 16729.2 | 16803.1 | 16377.0 | 16149.8 | 16547.4 | 17967.6 | 21404.3 | 24807.0 | 24346.8 | 17615.4 |
| 45° | 18717.4 | 18723.1 | 18524.3 | 18387.9 | 17797.2 | 18228.9 | 18927.6 | 21972.4 | 26096.4 | 25738.6 | 18723.1 |
| 47.5° | 19916.0 | 19910.3 | 20126.2 | 20342.0 | 19734.2 | 19308.2 | 19580.9 | 22512.0 | 26761.1 | 26596.3 | 19126.4 |
| 50° | 19728.5 | 19785.4 | 20063.7 | 20870.3 | 21188.4 | 20614.7 | 20194.4 | 22353.0 | 27062.1 | 27045.1 | 19472.9 |
| 52.5° | 17160.9 | 17348.4 | 17814.2 | 18978.7 | 20580.6 | 21290.7 | 20836.3 | 22648.3 | 27209.8 | 27238.2 | 19989.9 |
| 55° | 13065.3 | 13167.5 | 14053.7 | 15468.1 | 17240.5 | 19671.7 | 20580.6 | 22881.3 | 27323.4 | 27374.6 | 20614.7 |
| 56° | 11332.7 | 11060.0 | 12338.2 | 13343.6 | 15462.5 | 18121.0 | 19933.0 | 22699.5 | 27255.3 | 27647.2 | 20927.1 |
| 57.5° | 8554.9 | 8373.1 | 9407.0 | 10662.4 | 12701.7 | 15507.9 | 17922.1 | 21841.7 | 26795.2 | 26789.5 | 20478.4 |
| 60° | 5203.4 | 5021.6 | 5816.9 | 6555.4 | 7697.1 | 9549.0 | 12110.9 | 17393.8 | 22654.0 | 23131.2 | 16581.5 |
| 62.5° | 3095.9 | 3209.5 | 3993.4 | 4442.2 | 4811.4 | 5004.6 | 6265.6 | 10338.6 | 15115.9 | 15456.8 | 10287.5 |
| 65° | 2062.0 | 2101.8 | 2692.6 | 3431.1 | 3595.8 | 2863.0 | 2550.6 | 4186.6 | 6555.4 | 6345.2 | 4243.4 |
| 67.5° | 1272.4 | 1363.3 | 1806.4 | 2579.0 | 2857.3 | 2090.4 | 1210.0 | 1562.2 | 1806.4 | 1806.4 | 1227.0 |
| 70° | 772.6 | 818.0 | 1204.3 | 1755.3 | 1959.8 | 1346.3 | 880.5 | 880.5 | 869.1 | 852.1 | 732.8 |
| 72.5° | 369.2 | 397.6 | 613.5 | 903.2 | 920.2 | 710.1 | 681.7 | 744.2 | 727.1 | 721.4 | 607.8 |
| 75° | 159.1 | 170.4 | 215.9 | 284.0 | 323.8 | 301.1 | 414.7 | 534.0 | 551.0 | 534.0 | 437.4 |
| 77.5° | 51.1 | 56.8 | 79.5 | 102.2 | 107.9 | 130.7 | 176.1 | 221.5 | 255.6 | 238.6 | 215.9 |
| 80° | 5.7 | 11.4 | 22.7 | 51.1 | 79.5 | 102.2 | 130.7 | 147.7 | 164.7 | 164.7 | 153.4 |
| 82.5° | 5.7 | 5.7 | 22.7 | 45.4 | 73.8 | 96.6 | 125.0 | 142.0 | 164.7 | 170.4 | 159.1 |
| 85° | 0.0 | 5.7 | 17.0 | 39.8 | 62.5 | 62.5 | 56.8 | 56.8 | 39.8 | 39.8 | 39.8 |
| 87.5° | 0.0 | 0.0 | 5.7 | 5.7 | 5.7 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 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° | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 | 5129.5 |
| 2.5° | 5175.0 | 5163.6 | 5010.2 | 4913.7 | 4862.6 | 4760.3 | 4697.8 | 4652.4 | 4618.3 | 4578.5 | 4584.2 |
| 5° | 5243.1 | 5203.4 | 4947.8 | 4771.7 | 4561.5 | 4447.9 | 4351.3 | 4271.8 | 4220.6 | 4209.3 | 4186.6 |
| 7.5° | 5436.3 | 5226.1 | 4839.8 | 4521.7 | 4254.7 | 4141.1 | 4055.9 | 4004.8 | 4027.5 | 3976.4 | 4016.1 |
| 10° | 5584.0 | 5271.5 | 4709.2 | 4249.1 | 3982.1 | 3896.9 | 3851.4 | 3891.2 | 3948.0 | 3925.3 | 3896.9 |
| 12.5° | 5765.8 | 5317.0 | 4499.0 | 3987.7 | 3737.8 | 3675.3 | 3754.8 | 3828.7 | 3942.3 | 3987.7 | 3930.9 |
| 15° | 5970.3 | 5368.1 | 4232.0 | 3686.7 | 3527.6 | 3578.7 | 3715.1 | 3845.7 | 3959.3 | 4016.1 | 4050.2 |
| 17.5° | 6220.2 | 5351.1 | 3970.7 | 3448.1 | 3328.8 | 3476.5 | 3641.2 | 3760.5 | 3930.9 | 4016.1 | 3993.4 |
| 20° | 6453.1 | 5294.3 | 3681.0 | 3209.5 | 3215.2 | 3351.5 | 3487.9 | 3681.0 | 3771.9 | 3885.5 | 3845.7 |
| 22.5° | 6674.6 | 5192.0 | 3379.9 | 3044.8 | 3044.8 | 3255.0 | 3323.1 | 3448.1 | 3527.6 | 3584.4 | 3578.7 |
| 25° | 6987.1 | 4998.9 | 3130.0 | 2885.7 | 2953.9 | 3090.2 | 3147.0 | 3186.8 | 3152.7 | 3198.1 | 3203.8 |
| 27.5° | 7208.6 | 4800.1 | 2925.5 | 2743.7 | 2868.7 | 2970.9 | 2953.9 | 2931.2 | 2851.6 | 2789.1 | 2828.9 |
| 30° | 7447.2 | 4567.2 | 2749.4 | 2647.1 | 2715.3 | 2806.2 | 2738.0 | 2669.9 | 2544.9 | 2442.6 | 2448.3 |
| 32.5° | 7788.0 | 4459.2 | 2596.0 | 2533.5 | 2624.4 | 2635.8 | 2561.9 | 2459.7 | 2334.7 | 2238.1 | 2232.5 |
| 35° | 8424.3 | 4391.1 | 2465.4 | 2459.7 | 2476.7 | 2482.4 | 2408.6 | 2283.6 | 2232.5 | 2152.9 | 2181.3 |
| 37.5° | 9060.5 | 4357.0 | 2374.5 | 2351.7 | 2346.1 | 2351.7 | 2266.5 | 2147.2 | 2243.8 | 2238.1 | 2249.5 |
| 40° | 9872.8 | 4510.4 | 2243.8 | 2215.4 | 2221.1 | 2221.1 | 2113.2 | 2079.1 | 2249.5 | 2266.5 | 2272.2 |
| 42.5° | 10696.5 | 4703.5 | 2158.6 | 2067.7 | 2090.4 | 2090.4 | 2033.6 | 1993.9 | 2113.2 | 1999.6 | 1982.5 |
| 45° | 11412.2 | 4987.5 | 2067.7 | 1920.0 | 1976.8 | 2005.2 | 1988.2 | 1920.0 | 1846.2 | 1653.0 | 1653.0 |
| 47.5° | 11645.1 | 5237.5 | 1959.8 | 1778.0 | 1823.5 | 1948.4 | 1897.3 | 1755.3 | 1624.6 | 1465.6 | 1454.2 |
| 50° | 12054.1 | 5510.1 | 1874.6 | 1613.3 | 1709.8 | 1863.2 | 1812.1 | 1670.1 | 1522.4 | 1408.8 | 1414.5 |
| 52.5° | 12474.5 | 5822.6 | 1715.5 | 1420.1 | 1539.4 | 1795.1 | 1795.1 | 1636.0 | 1408.8 | 1329.2 | 1317.9 |
| 55° | 13105.0 | 5811.2 | 1431.5 | 1164.5 | 1374.7 | 1692.8 | 1721.2 | 1465.6 | 1261.1 | 1198.6 | 1198.6 |
| 56° | 13195.9 | 5549.9 | 1289.5 | 1090.7 | 1300.8 | 1664.4 | 1670.1 | 1420.1 | 1204.3 | 1136.1 | 1136.1 |
| 57.5° | 12514.2 | 5010.2 | 1130.4 | 999.8 | 1210.0 | 1613.3 | 1619.0 | 1380.4 | 1158.8 | 1062.3 | 1050.9 |
| 60° | 9628.5 | 3391.3 | 943.0 | 891.8 | 1096.3 | 1454.2 | 1482.6 | 1255.4 | 1016.8 | 943.0 | 937.3 |
| 62.5° | 5436.3 | 1880.3 | 829.4 | 806.6 | 943.0 | 1238.4 | 1323.6 | 1096.3 | 863.4 | 823.7 | 835.0 |
| 65° | 2482.4 | 1033.9 | 698.7 | 653.3 | 761.2 | 954.3 | 1067.9 | 903.2 | 710.1 | 664.6 | 664.6 |
| 67.5° | 908.9 | 704.4 | 596.5 | 516.9 | 534.0 | 619.2 | 693.0 | 585.1 | 471.5 | 403.3 | 420.4 |
| 70° | 647.6 | 590.8 | 522.6 | 448.8 | 414.7 | 403.3 | 397.6 | 329.5 | 232.9 | 181.8 | 193.1 |
| 72.5° | 522.6 | 488.5 | 437.4 | 380.6 | 323.8 | 272.7 | 232.9 | 170.4 | 107.9 | 73.8 | 68.2 |
| 75° | 374.9 | 357.9 | 318.1 | 272.7 | 227.2 | 193.1 | 159.1 | 107.9 | 56.8 | 28.4 | 28.4 |
| 77.5° | 193.1 | 193.1 | 187.5 | 170.4 | 142.0 | 113.6 | 90.9 | 62.5 | 34.1 | 11.4 | 11.4 |
| 80° | 147.7 | 159.1 | 164.7 | 147.7 | 130.7 | 102.2 | 73.8 | 45.4 | 22.7 | 5.7 | 5.7 |
| 82.5° | 142.0 | 164.7 | 176.1 | 153.4 | 130.7 | 96.6 | 73.8 | 45.4 | 22.7 | 5.7 | 5.7 |
| 85° | 34.1 | 34.1 | 51.1 | 56.8 | 73.8 | 79.5 | 62.5 | 39.8 | 17.0 | 5.7 | 5.7 |
| 87.5° | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 5.7 | 5.7 | 5.7 | 5.7 | 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)