

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: P533134

Luminaire Tested: **GLAN-SA8C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46166 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

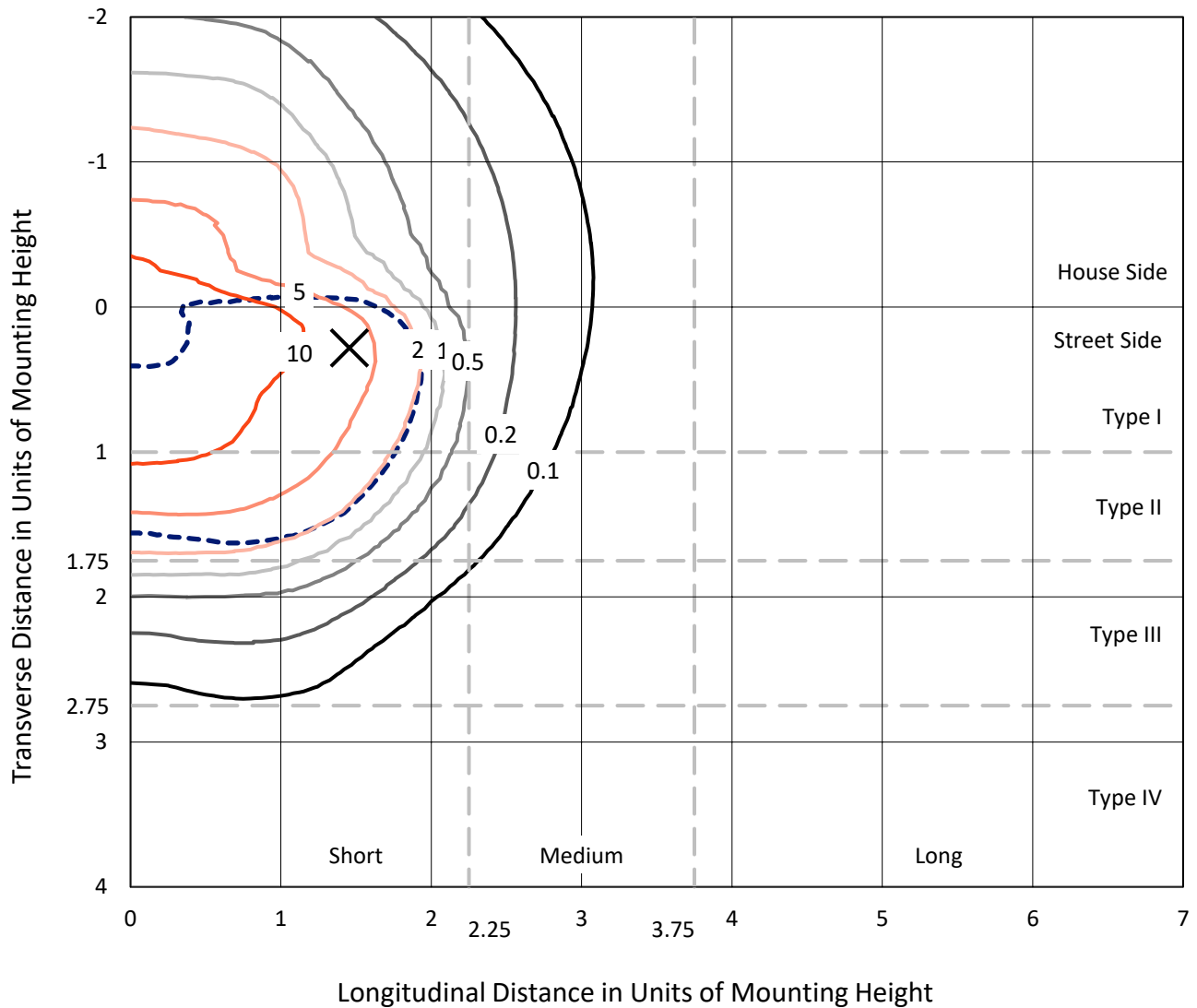
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

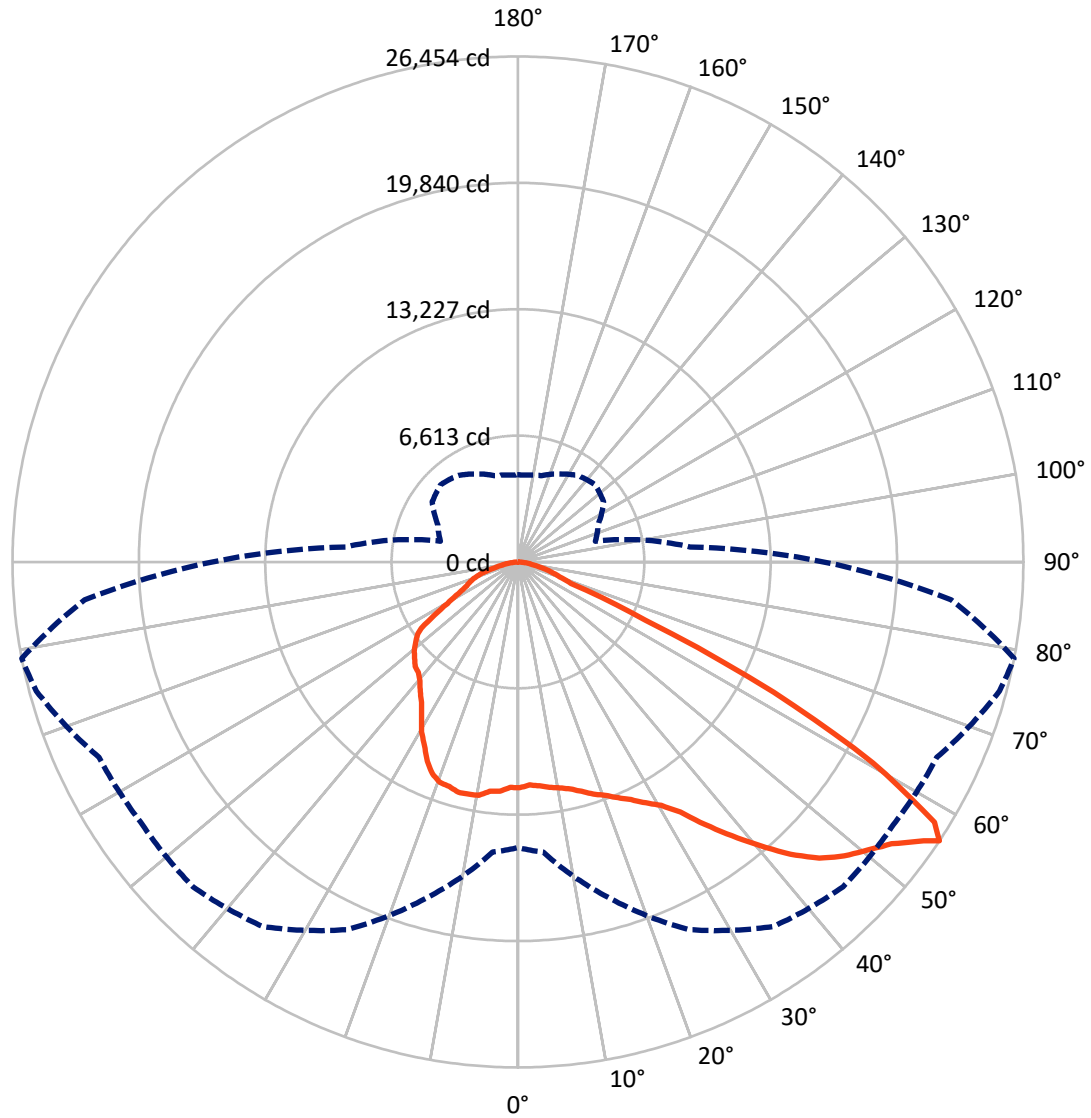
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13633.8 | 0.0 | 13633.8 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 32532.2 | 0.0 | 32532.2 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 46166.0 | 0.0 | 46166.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1073.9 | 2.3 |
| 10°-20° | 2939.1 | 6.4 |
| 20°-30° | 5028.2 | 10.9 |
| 30°-40° | 7706.3 | 16.7 |
| 40°-50° | 10415.1 | 22.6 |
| 50°-60° | 11962.1 | 25.9 |
| 60°-70° | 5452.7 | 11.8 |
| 70°-80° | 1344.4 | 2.9 |
| 80°-90° | 244.3 | 0.5 |
| 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° | 46166.0 | 100.0 |
| 0°-180° | 46166.0 | 100.0 |

Coefficient of Utilization

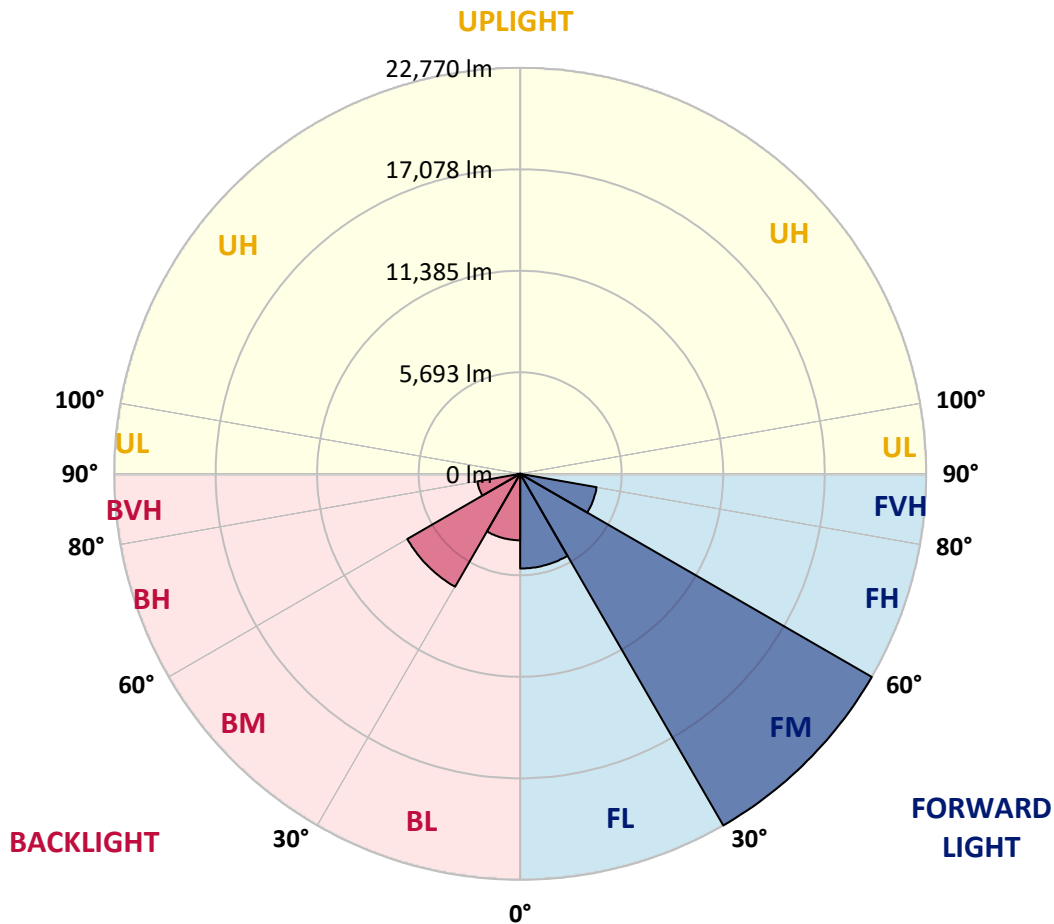


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5311.8 | 11.5 | | | |
| FM (30°-60°) | 22770.4 | 49.3 | | | |
| FH (60°-80°) | 4352.4 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 97.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3729.4 | 8.1 | B4/5000 | | |
| BM (30°-60°) | 7313.0 | 15.8 | B4/8500 | | |
| BH (60°-80°) | 2444.6 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 146.8 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 |
| 2.5° | 11237.0 | 11208.2 | 11277.2 | 11329.0 | 11392.2 | 11472.8 | 11513.0 | 11536.0 | 11737.3 | 11685.5 | 11840.8 |
| 5° | 10995.4 | 10920.7 | 10972.4 | 11012.7 | 11122.0 | 11219.7 | 11329.0 | 11501.5 | 11685.5 | 11766.0 | 11955.8 |
| 7.5° | 10782.7 | 10742.4 | 10730.9 | 10759.7 | 10909.2 | 11035.7 | 11225.5 | 11478.5 | 11777.5 | 11909.8 | 12019.1 |
| 10° | 10431.9 | 10374.4 | 10460.6 | 10650.4 | 10690.7 | 10955.2 | 11173.7 | 11536.0 | 11794.8 | 12024.8 | 12346.9 |
| 12.5° | 10276.6 | 10219.1 | 10236.3 | 10345.6 | 10627.4 | 10880.4 | 11139.2 | 11547.5 | 12093.8 | 12185.9 | 12617.2 |
| 15° | 10523.9 | 10466.4 | 10483.6 | 10454.9 | 10725.2 | 10857.4 | 11265.7 | 11777.5 | 12300.9 | 12456.1 | 12916.2 |
| 17.5° | 11087.5 | 11093.2 | 11018.4 | 10955.2 | 10891.9 | 11173.7 | 11455.5 | 11915.6 | 12381.4 | 12772.4 | 13117.5 |
| 20° | 12162.8 | 11973.1 | 11823.6 | 11467.0 | 11369.2 | 11490.0 | 11846.6 | 12289.4 | 12709.2 | 13031.2 | 13422.3 |
| 22.5° | 12991.0 | 13008.2 | 12795.4 | 12208.9 | 11996.1 | 12047.8 | 12352.6 | 12714.9 | 13175.0 | 13405.0 | 13853.6 |
| 25° | 14192.9 | 14072.1 | 13842.1 | 13376.3 | 12898.9 | 12939.2 | 13163.5 | 13491.3 | 13617.8 | 13778.8 | 14267.6 |
| 27.5° | 15291.3 | 15325.8 | 14871.5 | 14434.4 | 13842.1 | 13727.1 | 14129.6 | 14187.1 | 13974.3 | 14279.1 | 14445.9 |
| 30° | 16406.9 | 16378.2 | 16079.1 | 15567.3 | 14986.5 | 15009.5 | 15187.7 | 14906.0 | 14612.7 | 14779.4 | 14894.5 |
| 32.5° | 17562.8 | 17235.0 | 17223.5 | 16763.5 | 16320.6 | 16107.9 | 15889.3 | 16027.4 | 15573.0 | 15607.5 | 15498.3 |
| 35° | 18488.7 | 18534.7 | 18270.1 | 17942.4 | 17723.8 | 17350.0 | 16752.0 | 16999.2 | 16913.0 | 16872.7 | 16401.2 |
| 37.5° | 19161.5 | 18983.2 | 19115.5 | 19006.2 | 18799.2 | 18333.4 | 17712.3 | 17948.1 | 17988.4 | 18183.9 | 17637.6 |
| 40° | 19713.6 | 19638.8 | 19989.6 | 20047.1 | 19903.4 | 18897.0 | 17781.3 | 18482.9 | 19086.8 | 19512.3 | 18862.5 |
| 42.5° | 19978.1 | 20139.1 | 20507.2 | 20950.0 | 20628.0 | 19552.6 | 18137.9 | 18891.2 | 20236.9 | 20909.7 | 20024.1 |
| 45° | 20334.7 | 20127.6 | 20674.0 | 21484.8 | 21490.6 | 20104.6 | 18482.9 | 19443.3 | 21134.0 | 22111.7 | 20817.7 |
| 47.5° | 19972.4 | 20075.9 | 20639.5 | 21668.8 | 21933.4 | 20685.5 | 19414.5 | 20225.4 | 22123.2 | 22991.5 | 21553.8 |
| 50° | 19161.5 | 19368.5 | 20397.9 | 21467.6 | 22266.9 | 21300.8 | 20484.2 | 21070.8 | 23037.5 | 23698.9 | 21674.6 |
| 52.5° | 18316.2 | 18431.2 | 20041.4 | 21622.8 | 22416.4 | 22094.4 | 21916.1 | 22238.2 | 24153.2 | 24498.2 | 21824.1 |
| 55° | 16015.9 | 16562.2 | 18862.5 | 21553.8 | 23146.8 | 23526.3 | 23388.3 | 23859.9 | 25418.3 | 25763.4 | 22640.7 |
| 56° | 14952.0 | 15239.5 | 18155.1 | 21231.8 | 23290.6 | 24049.7 | 23980.6 | 24193.4 | 26091.2 | 26453.5 | 22767.2 |
| 57.5° | 12985.2 | 13008.2 | 15481.0 | 19805.6 | 22750.0 | 24204.9 | 24135.9 | 24302.7 | 25958.9 | 25711.6 | 21657.3 |
| 60° | 8125.8 | 8482.4 | 10535.4 | 15233.8 | 19345.5 | 22456.7 | 22847.8 | 21507.8 | 21887.4 | 21364.1 | 16849.7 |
| 62.5° | 4209.6 | 4157.8 | 5520.7 | 8907.9 | 12841.4 | 16079.1 | 16441.4 | 16378.2 | 15791.6 | 15026.7 | 11006.9 |
| 65° | 2099.0 | 2110.5 | 2886.9 | 4410.8 | 6578.9 | 8419.1 | 9431.2 | 9540.5 | 7982.0 | 7343.7 | 5221.7 |
| 67.5° | 1524.0 | 1581.5 | 2076.0 | 2697.1 | 3099.7 | 3467.7 | 4249.8 | 4169.3 | 3157.2 | 3001.9 | 2783.4 |
| 70° | 1184.7 | 1236.4 | 1685.0 | 2058.8 | 1869.0 | 1869.0 | 2035.8 | 2104.8 | 2248.5 | 2311.8 | 2386.6 |
| 72.5° | 862.6 | 902.9 | 1288.2 | 1420.4 | 1224.9 | 1316.9 | 1524.0 | 1685.0 | 1834.5 | 1857.5 | 1943.8 |
| 75° | 592.3 | 626.8 | 845.4 | 782.1 | 736.1 | 908.6 | 1115.6 | 1265.2 | 1374.4 | 1431.9 | 1483.7 |
| 77.5° | 385.3 | 396.8 | 483.1 | 408.3 | 471.6 | 586.6 | 724.6 | 851.1 | 960.4 | 1006.4 | 1017.9 |
| 80° | 172.5 | 189.8 | 207.0 | 258.8 | 327.8 | 419.8 | 517.6 | 621.1 | 690.1 | 707.3 | 741.8 |
| 82.5° | 97.8 | 97.8 | 126.5 | 184.0 | 241.5 | 304.8 | 373.8 | 448.6 | 529.1 | 546.3 | 540.6 |
| 85° | 51.8 | 51.8 | 74.8 | 109.3 | 149.5 | 178.3 | 172.5 | 178.3 | 189.8 | 218.5 | 212.8 |
| 87.5° | 17.3 | 17.3 | 23.0 | 23.0 | 28.8 | 34.5 | 28.8 | 40.3 | 51.8 | 51.8 | 51.8 |
| 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° | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 | 11812.1 |
| 2.5° | 11794.8 | 11846.6 | 11777.5 | 11927.1 | 11927.1 | 11898.3 | 11754.5 | 11800.5 | 11835.1 | 11835.1 | 11863.8 |
| 5° | 12019.1 | 12001.8 | 12047.8 | 11869.6 | 11760.3 | 11720.0 | 11484.3 | 11369.2 | 11271.5 | 11265.7 | 11179.5 |
| 7.5° | 12145.6 | 12099.6 | 12082.3 | 11950.1 | 11467.0 | 11173.7 | 10667.7 | 10374.4 | 10311.1 | 10086.8 | 10173.1 |
| 10° | 12346.9 | 12433.1 | 12346.9 | 11628.0 | 10955.2 | 10282.4 | 9787.8 | 9333.5 | 9155.2 | 9011.4 | 8925.2 |
| 12.5° | 12760.9 | 12720.7 | 12220.4 | 11248.5 | 10305.4 | 9506.0 | 8769.9 | 8292.6 | 8114.3 | 7987.8 | 7976.3 |
| 15° | 13111.7 | 12910.4 | 12145.6 | 10650.4 | 9293.2 | 8442.1 | 7838.3 | 7499.0 | 7418.5 | 7430.0 | 7481.7 |
| 17.5° | 13232.5 | 13094.5 | 11754.5 | 10029.3 | 8539.9 | 7539.2 | 7257.5 | 7205.7 | 7280.5 | 7366.7 | 7389.7 |
| 20° | 13422.3 | 13203.7 | 11593.5 | 9184.0 | 7608.2 | 6975.7 | 6958.4 | 7142.4 | 7280.5 | 7407.0 | 7424.2 |
| 22.5° | 13819.1 | 13267.0 | 11070.2 | 8384.6 | 6969.9 | 6808.9 | 6975.7 | 7130.9 | 7343.7 | 7447.2 | 7355.2 |
| 25° | 13934.1 | 13129.0 | 10334.1 | 7424.2 | 6567.4 | 6705.4 | 6883.7 | 7096.4 | 7246.0 | 7303.5 | 7343.7 |
| 27.5° | 14031.8 | 12916.2 | 9339.2 | 6785.9 | 6440.8 | 6699.6 | 6883.7 | 7061.9 | 7142.4 | 7194.2 | 7240.2 |
| 30° | 14307.9 | 12852.9 | 8476.6 | 6360.3 | 6360.3 | 6584.6 | 6820.4 | 6866.4 | 6975.7 | 7038.9 | 7119.4 |
| 32.5° | 14445.9 | 12415.9 | 7591.0 | 6090.0 | 6279.8 | 6642.1 | 6659.4 | 6745.6 | 6751.4 | 6803.1 | 6716.9 |
| 35° | 14808.2 | 12105.3 | 6768.6 | 5894.5 | 6314.3 | 6584.6 | 6670.9 | 6619.1 | 6337.3 | 6199.3 | 6228.1 |
| 37.5° | 15072.7 | 11950.1 | 6176.3 | 5871.5 | 6320.1 | 6647.9 | 6693.9 | 6302.8 | 6009.5 | 5779.5 | 5837.0 |
| 40° | 15785.8 | 11564.8 | 5727.8 | 5831.3 | 6371.8 | 6716.9 | 6590.4 | 6164.8 | 5635.7 | 5400.0 | 5359.7 |
| 42.5° | 16332.1 | 11288.7 | 5446.0 | 5785.3 | 6412.1 | 6814.6 | 6538.6 | 5888.8 | 5348.2 | 5129.7 | 5187.2 |
| 45° | 16964.7 | 11225.5 | 5296.4 | 5796.8 | 6481.1 | 6866.4 | 6475.4 | 5676.0 | 5100.9 | 5014.7 | 4997.4 |
| 47.5° | 17189.0 | 10771.2 | 5135.4 | 5699.0 | 6463.8 | 6849.1 | 6262.6 | 5515.0 | 5008.9 | 5020.4 | 5066.4 |
| 50° | 16815.2 | 10305.4 | 5014.7 | 5497.7 | 6348.8 | 6693.9 | 5929.0 | 5302.2 | 4957.2 | 5100.9 | 5181.4 |
| 52.5° | 16337.9 | 9828.0 | 4767.4 | 5227.4 | 6113.1 | 6452.3 | 5773.8 | 5290.7 | 4905.4 | 4859.4 | 4876.6 |
| 55° | 16481.7 | 9437.0 | 4422.3 | 4859.4 | 5733.5 | 6003.8 | 5601.2 | 5181.4 | 4778.9 | 4606.4 | 4663.9 |
| 56° | 16015.9 | 9034.4 | 4198.1 | 4629.4 | 5474.7 | 5716.3 | 5515.0 | 5083.7 | 4675.4 | 4560.3 | 4560.3 |
| 57.5° | 14698.9 | 7683.0 | 3904.8 | 4261.3 | 4928.4 | 5215.9 | 5348.2 | 5026.2 | 4560.3 | 4359.1 | 4364.8 |
| 60° | 10840.2 | 5463.2 | 3502.2 | 3755.2 | 4083.0 | 4313.1 | 4928.4 | 4865.1 | 4272.8 | 4134.8 | 4083.0 |
| 62.5° | 6682.4 | 3991.0 | 3214.7 | 3312.4 | 3479.2 | 3669.0 | 4301.6 | 4405.1 | 3968.0 | 3818.5 | 3784.0 |
| 65° | 3743.7 | 3053.7 | 2996.1 | 3036.4 | 3116.9 | 3214.7 | 3571.2 | 3801.2 | 3502.2 | 3272.2 | 3260.7 |
| 67.5° | 2737.4 | 2731.6 | 2777.6 | 2812.1 | 2846.6 | 2846.6 | 2932.9 | 3024.9 | 2984.6 | 2800.6 | 2783.4 |
| 70° | 2432.6 | 2449.8 | 2484.3 | 2490.1 | 2501.6 | 2461.3 | 2392.3 | 2363.6 | 2409.6 | 2294.6 | 2271.5 |
| 72.5° | 2007.0 | 2064.5 | 2104.8 | 2110.5 | 2047.3 | 1995.5 | 1903.5 | 1805.7 | 1771.2 | 1748.2 | 1742.5 |
| 75° | 1541.2 | 1581.5 | 1598.7 | 1593.0 | 1570.0 | 1495.2 | 1385.9 | 1288.2 | 1224.9 | 1155.9 | 1190.4 |
| 77.5° | 1040.9 | 1098.4 | 1127.1 | 1127.1 | 1092.6 | 977.6 | 925.9 | 851.1 | 787.9 | 713.1 | 724.6 |
| 80° | 730.3 | 770.6 | 816.6 | 810.9 | 753.3 | 695.8 | 621.1 | 552.1 | 500.3 | 442.8 | 437.1 |
| 82.5° | 546.3 | 569.3 | 592.3 | 580.8 | 540.6 | 483.1 | 431.3 | 368.0 | 310.5 | 270.3 | 270.3 |
| 85° | 195.5 | 212.8 | 258.8 | 270.3 | 293.3 | 293.3 | 247.3 | 207.0 | 166.8 | 138.0 | 138.0 |
| 87.5° | 57.5 | 57.5 | 63.3 | 63.3 | 57.5 | 63.3 | 51.8 | 57.5 | 63.3 | 40.3 | 40.3 |
| 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)